



Linear technology

- Clamping and braking elements
- + for profile rail guides
- + for circulator and shaft guides

THE KNOW-HOW FACTORY



“WE ARE PLEASED TO BE TAKING A MAJOR STEP INTO THE FUTURE WITH ZIMMER GROUP. THE UMBRELLA BRAND ZIMMER GROUP SYMBOLIZES OUTWARDLY WHAT WE HAVE ALREADY INTERNALIZED – THE UNITY OF PREVIOUSLY SEPARATE COMPANIES.

AS ZIMMER GROUP, OUR FAMILY-RUN ENTERPRISE CAN DELIVER EVEN GREATER VALUE AND SUPPORT FOR OUR CUSTOMERS.

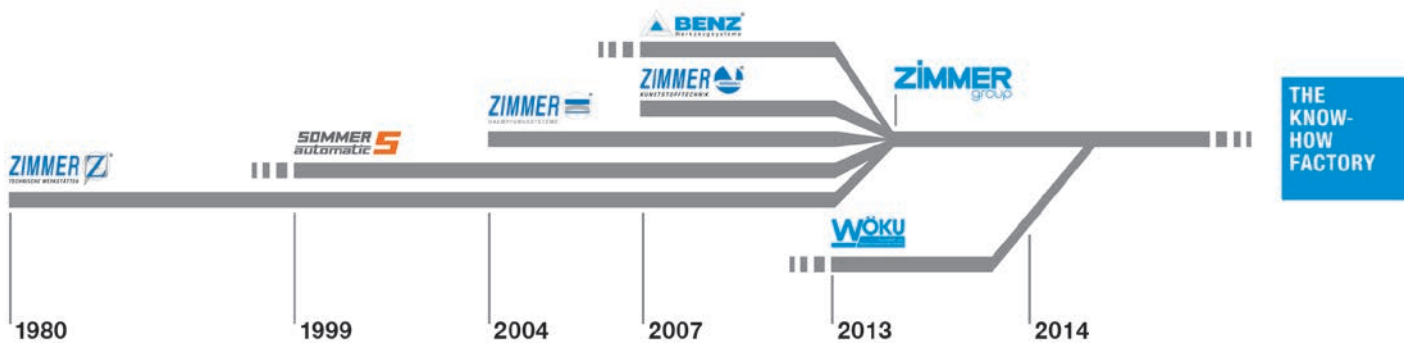
NOW AND IN THE FUTURE. CONTINUING OUR INTERNATIONALIZATION, ENGAGING WITH ALL INDUSTRIES, AND SOLVING ALL TYPES OF DEVELOPMENT TASKS ARE SOME OF THE CHALLENGES THAT WE WILL OVERCOME AS THE KNOW-HOW FACTORY.”

GÜNTHER ZIMMER, MARTIN ZIMMER AND ACHIM GAUSS

Managing Directors, from left to right



ZIMMER GROUP COMMITTED TO OUR CUSTOMERS



WE HAVE SUCCEEDED FOR YEARS BY OFFERING OUR CUSTOMERS INNOVATIVE AND INDIVIDUALIZED SOLUTIONS. ZIMMER HAS GROWN CONTINUOUSLY AND TODAY WE HAVE REACHED A NEW MILESTONE: THE ESTABLISHMENT OF THE KNOW-HOW FACTORY. IS THERE A SECRET TO OUR SUCCESS?

Foundation. Excellent products and services have always been the foundation of our company's growth. Zimmer is a source of ingenious solutions and important technical innovations. This is why customers with high expectations for technology frequently find their way to us. When things get tricky, Zimmer Group is in its best form.

Style. We have an interdisciplinary approach to everything we do, resulting in refined process solutions in six areas of technology. This applies not just to development but to production as well. Zimmer Group serves all industries and stands ready to resolve even unique and highly individualized problems. Worldwide.

Motivation. Customer orientation is perhaps the most important factor of our success. We are a service provider in the complete sense of the word. Even our decision to identify ourselves as Zimmer Group reflects this reality. With Zimmer Group, our customers now have a single, centralized contact for all of their needs. We approach each customer's situation with a high level of competence and a broad range of possible solutions.

TECHNOLOGIES



HANDLING TECHNOLOGY

WITH MORE THAN 30 YEARS OF EXPERIENCE AND INDUSTRY KNOWLEDGE, OUR PNEUMATIC, HYDRAULIC AND ELECTRICAL HANDLING COMPONENTS AND SYSTEMS ARE GLOBAL LEADERS.

Components. More than 2000 standardized gripper systems, positioning systems, robotools and much more. We offer a complete selection of technologically superior products that are ready for rapid delivery.

Semistandard. Our modular approach to design enables custom configurations and high rates of innovation for process automation.

Systems. We are particularly strong in providing custom system solutions for handling technologies, robotics and vacuum engineering.



DAMPING TECHNOLOGY

INDUSTRIAL DAMPING TECHNOLOGY AND SOFT CLOSE PRODUCTS EXEMPLIFY THE INNOVATION AND PIONEERING SPIRIT OF THE KNOW-HOW FACTORY.

Industrial damping technology.

Whether standard or customized solutions, our products stand for the highest cycle rates and maximum energy absorption with minimal space requirements.

Soft Close. Development and mass production of pneumatic and fluid dampers with extraordinary quality and rapid delivery.

OEM und direct. Whether they need components, returning mechanisms or complete production lines – we are the trusted partner of many prestigious customers.



LINEAR TECHNOLOGY

WE DEVELOP LINEAR COMPONENTS AND SYSTEMS THAT ARE INDIVIDUALLY ADAPTED TO OUR CUSTOMERS' NEEDS.

Clamping and braking elements. We offer more than 4000 types for profiled and rounded rails as well as for a variety of guide systems from all manufacturers. It makes no difference whether you prefer manual, automatic, electric or hydraulic drive.

Individualized systems. The unique functionality and precision of our clamping and braking elements open up numerous possibilities for custom applications such as active or semi-active braking and damping.



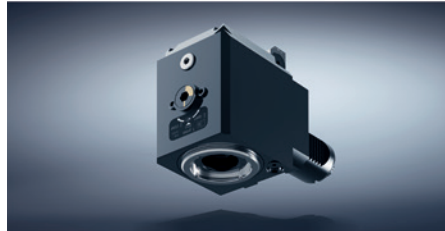
PROCESS TECHNOLOGY

MAXIMUM EFFICIENCY IS ESSENTIAL FOR SYSTEMS AND COMPONENTS USED IN PROCESS TECHNOLOGY. HIGH-LEVEL CUSTOM SOLUTIONS ARE OUR TRADEMARK.

A rich reservoir of experience. Our know-how ranges from the development of materials, processes and tools through product design to production of series products. Challenge us!

Deep production capabilities. The Zimmer Group pairs these capabilities with flexibility, quality and precision, even when making custom products.

Series production. We manufacture demanding products out of metal (MIM), elastomers and plastics with flexibility and speed.



TOOLING TECHNOLOGY

ZIMMER GROUP DEVELOPS INNOVATIVE METAL, WOOD AND COMPOSITE MATERIAL PROCESSING TOOL SYSTEMS FOR ALL INDUSTRIES. NUMEROUS CUSTOMERS CHOOSE US AS THEIR SYSTEMS AND INNOVATION PARTNER.

Knowledge and experience. Industry knowledge and a decades-long development partnership for exchangeable assemblies, tool interfaces and tool systems predestine us for new challenges around the world.

Components. We deliver numerous standard components from stock and develop innovative, customized systems for OEM and end users – far beyond just the metal and wood processing industries.

Variety. Whether you have machining centres, lathes, or flexible production cells, the power tools, holders, assemblies and drilling heads of Zimmer Group are ready for action.



MACHINE TOOLING TECHNOLOGY

AS A DRIVING FORCE IN OUR INDUSTRY, WE DELIVER HIGH-VALUE SOLUTIONS IN THE FIELD OF MECHANICAL ENGINEERING, FULLY ACCORDING TO THE NEEDS OF OUR CUSTOMERS.

Development partner. We accompany you from brainstorming to inspection of the final machine, always according to your expectations.

Components. We deliver series products and modules, five-axis heads, motor spindles, gearbox swivelling heads, add-on assemblies and motors.

Systems. The Know-how Factory stands for solutions in the fields of mechanical engineering systems, specialty solutions, custom assemblies and mechanical modules. We manufacture and configure multiple-spindle and large-angles as well as large boring heads.

FULL PRODUCT LINE OVERVIEW

EXPLANATION OF NUMERICAL CODES

TECHNICAL FUNDAMENTALS

BRAKING DISTANCE CALCULATION

Page 10 - 15

PRODUCT OVERVIEW

MANUAL

PNEUMATIC

HYDRAULIC

ELECTRICAL

Page 16 - 19

SPECIAL SOLUTIONS

Page 20 - 21

SELECT BY RAIL MANUFACTURER

Page 23

PIONEERS WITH LEADERSHIP QUALITIES

Zimmer Group is a pioneer in the fields of clamping and braking on profile and round shaft guides.



More than 20 years of development and market experience have yielded more than 4,000 products. Zimmer Group offers the most comprehensive and innovative portfolio of products and services reflecting the highest possible quality and reliability.

Clamping and braking elements from Zimmer Group routinely perform critical positioning, holding and braking tasks. They ensure precision during cutting processes and boost efficiency with short cycle times. Their secure hold maximizes safety and protects the machines.

ZIMMER CLAMPING AND BRAKING ELEMENTS

HIGH-PERFORMANCE, DURABLE, INNOVATIVE

Our customers have high expectations for reliability, which we fulfill by merging exceptional performance with extraordinary product and manufacturing quality. Naturally we are certified according to DIN EN ISO 9001 and DIN EN ISO 14001:2004.

All of our products pass through multiple development and testing phases before entering series production. We continually optimize the underlying design, meeting new requirements with innovative developments, so our customers can enter new fields and discover new ways to use our products.

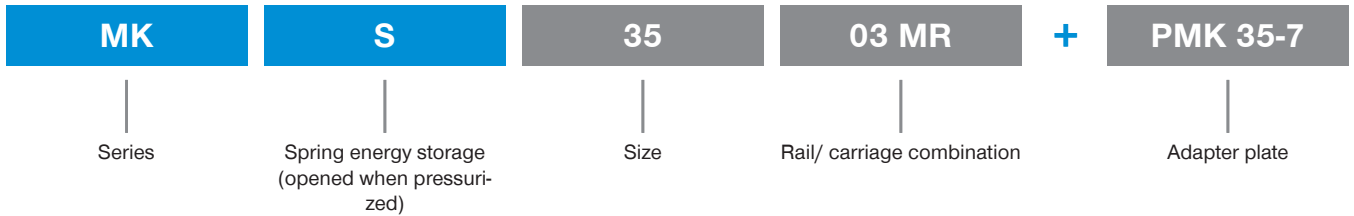
Numerous benefits:

- ▶ Very high holding force on small dimensions
- ▶ No relative movement for the workpiece
- ▶ No clamping forces transferred to the guide block
- ▶ High positional accuracy
- ▶ High stiffness
- ▶ Virtually wear free
- ▶ Very straightforward installation
- ▶ Outstanding price/performance ratio
- ▶ Available for all common guide manufacturers
- ▶ Economical custom solutions
- ▶ Emergency stop-capable series with integrated special surface for braking

With many years of product and market experience, we have a special ability to develop custom solutions that complement our large and diverse range of products. Please share your challenge with us!

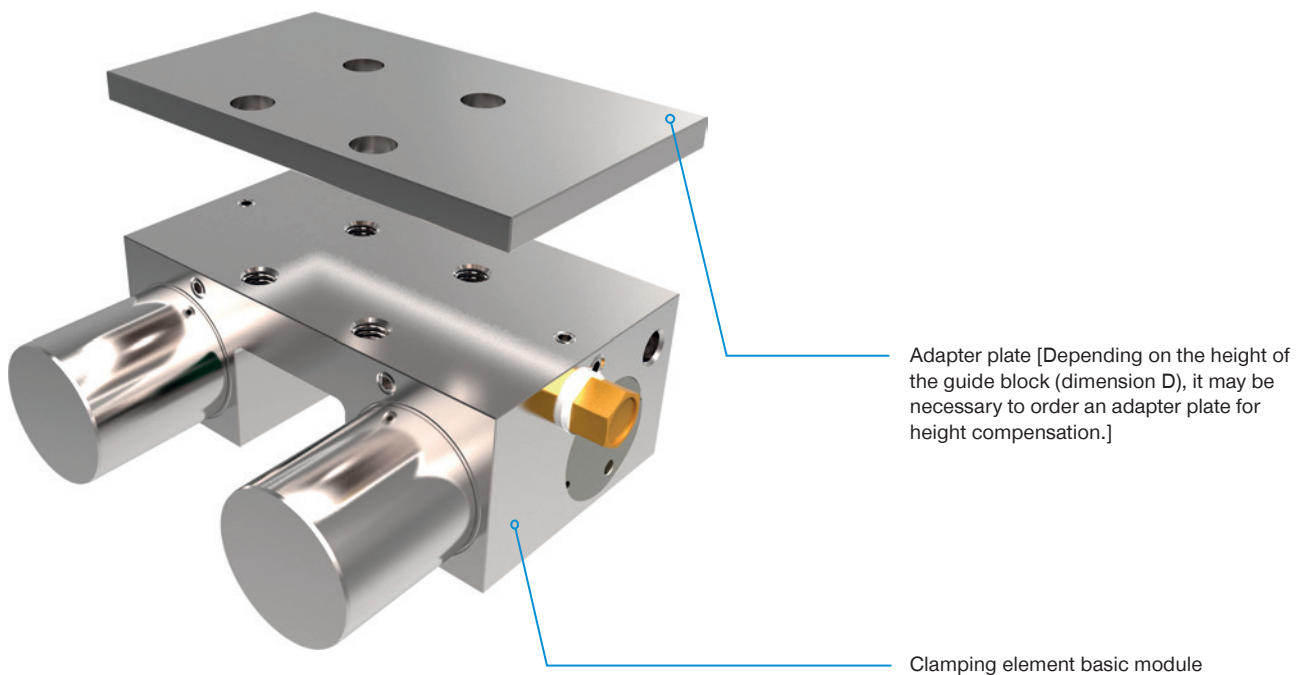
NUMERICAL CODE EXPLANATION

▶ NUMERICAL CODE OF OUR MKS SERIES (SHOWN AS EXAMPLE)

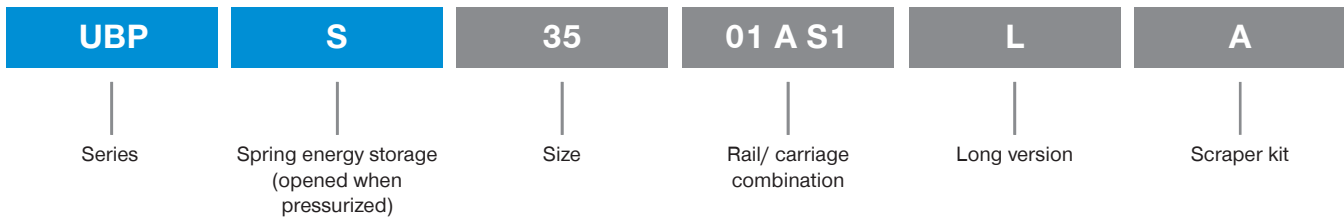


- ▶ Numerical code of our MK/MKS series (shown as example).
- ▶ The tables on the overview pages contain the order numbers of the elements and, when necessary, the order numbers of the associated adapter plate (accessory).
- ▶ If an adapter plate is required, please provide both order numbers.
- ▶ For dimensions and top view drawings, refer to the respective series.

Example MKS series

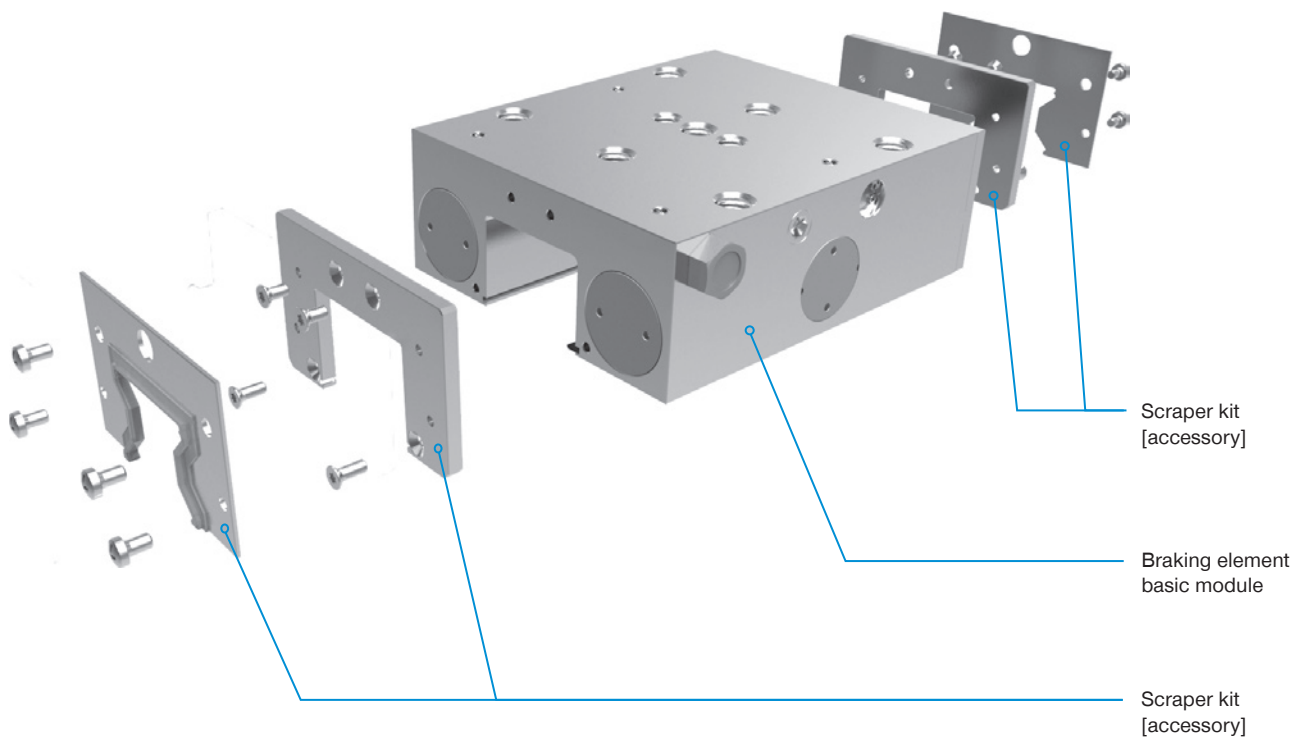


► NUMERICAL CODE OF OUR UBPS SERIES (SHOWN AS EXAMPLE)



- The tables on the overview pages contain all necessary order numbers, with the exception of the wiper kit.
- If a wiper kit is required, please add the letter „A“ to the order number.
- Our KBHS and RBPS series are always equipped with a wiper!
- Our series MBPS, UBPS, KWH and KBH are available with a wiper option!
- For dimensions and top view drawings, refer to the respective series.

Example UBPS series



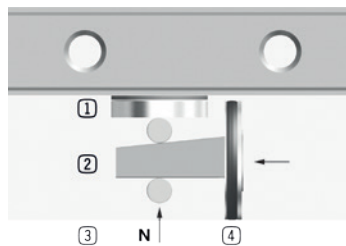
CLAMPING AND BRAKING ELEMENTS

TECHNICAL FUNDAMENTALS

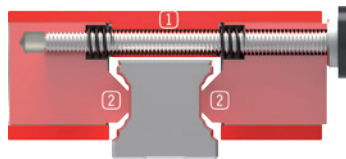
▶ CLAMPING, BRAKING, AREAS OF APPLICATION

Wedge slide gear

- ① Contact section
- ② Wedge slide gear
- ③ Resulting transverse movement
- ④ Piston



- 1 floating bearing
- 2 free surfaces

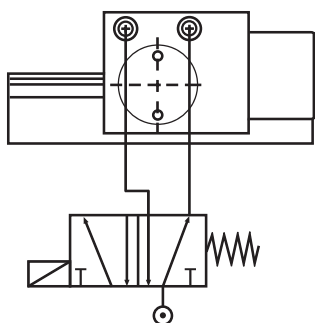


- ▶ The MK/MKS/MBPS/UBPS/LKP/LKPS/LBPS/MKR and MKRS series are constructed with two parallel (synchronized) running wedge-type gears, i.e. the stroke movement of the contact profiles is performed from both sides. Therefore (assuming the proper connection structure), the clamping process is not expected to produce relative movements.
- ▶ Series HK/MK/MKS/LKP/LKPS/miniHK/MCP/MCPS/KWH /KBH/KBHS/LCE/HKR/MKR/MKRS and TPS are designed exclusively for static clamping processes.
- ▶ Series MBPS/UBPS/LBPS/KBHS and RBPS permit the use of corresponding contact profiles for dynamic use (braking) as a safety feature.
- ▶ Series HK/miniHK/MCP/MCPS/KWH/KBH/LCE and HKR have floating bearings, thereby eliminating pinching forces in the connection structure during the clamping process.
- ▶ The frictional connection between the clamping element and the linear guide is generated on the free surfaces of the guide rails, avoiding damage to the running surfaces of the ball guides and roller slides.

▶ PNEUMATIC CONNECTIONS

OPTIMIZED SUPPLY OF COMPRESSED AIR PROVIDES FOR RELIABLE FUNCTIONALITY

- ▶ Purified, oiled air shall be used for the pneumatic elements. Recommended filter size is 25 µm. The line diameter of the elements should be the largest permitted by the air connection. Smaller line diameters result in slower response and reaction times for the elements. Lines should be as short as possible; please observe the installation and operating instructions.
- ▶ All commercially available pneumatic valves are suitable. Inquire with the manufacturer for each valve's reaction time, especially when used as a brake or as fall protection.



- ▶ PLUS connection for higher holding forces
The holding force of elements MKS/MKRS/ MCPS and UBPS can be increased with supplementary pressure for the spring energy storage and by installing a 5/2 (overflow free) or 5/3-way valve. In this case, the venting filter is replaced by a second pneumatic line.
- ▶ When used as a safety element, note that the higher holding force (PLUS connection) can be achieved only with additional charging with existing pneumatic pressure.

▶ HYDRAULIC CONNECTIONS

KWH
KBH
KBHS

- ▶ The hydraulic clamping elements are filled at the factory with HLP 46 hydraulic oil. The hydraulic connection is established at both sides. Charging requires one connection. Special care must be exercised when venting the rigid and flexible hydraulic lines, since air inclusions may lead to damage to sealing elements. Please observe the instructions included with the product during installation and start-up.

▶ CONNECTION STRUCTURE, INSTALLATION OF THE CLAMPING ELEMENTS



PLEASE OBSERVE!

- ▶ In order to avoid negative effects like permanent rubbing at the linear guide, the connection structure must be stiff in its design, in accordance with its loads and requirements. If the clamping elements are askew, this may result in rubbing, wear and ultimately damage to the linear guide.
The default factory setting is adapted to the linear guide and may not be modified during installation. It is very important that you observe the installation instructions for the clamping and braking elements.
All spring-loaded elements are equipped with a transport safety device between the contact profiles. Remove the safety devices during installation by applying pressure to the element. Once pressure is removed, the transport safety device or the associated linear guide must have contact between the contact profiles!
The clamping elements do not perform any guide function. Therefore, it is not possible to exchange a guide block with a clamping element. The ideal position of the clamping element is between two guide blocks. When using multiple clamping elements, they should be distributed evenly on both guide rails in order to achieve maximum rigidity of the overall design.
Additional installation notices may be found at www.zimmer-group.com.

▶ LUBRICATION, SURFACE PROTECTION AND B10D VALUE

NOTE

- ▶ Lubrication is not necessary when using the mandated pressure medium.
- ▶ All housing parts of the clamping elements are nickel plated, giving them a certain amount of rust protection. Smaller parts made of aluminum are nickel plated or hard coated, depending on their requirements.
- ▶ The B10d value indicates the number of switching cycles until 10 % of the components have failed hazardously.

CLAMPING AND BRAKING ELEMENTS

BRAKING DISTANCE CALCULATION

▶ THEORETICAL BRAKING DISTANCE CALCULATION

VALUE

A (number of braking elements)	1
F (holding force of the braking element)	3 100 N
t _R (reaction time)	0,06 s
t _A (response time)	0,01 s
m (mass)	50 kg
v ₀ (initial speed)	2 m/s
μ _G (kinetic friction)	0,06
μ _R (static friction)	0,1
g (weight force)	9,81 m/s ²

▶ Example: Two guide blocks and one braking element UBPS (size 45)

The values for μ_G and μ_R are based on test series and on years of industry experience. Nonetheless, divergent ambient conditions can lead to different results. Values t_R and t_A are based on measured test values.

▶ STOPPING DISTANCE (HORIZONTAL INSTALLATION)

FORMULAS

▶ Stopping distance (horizontal installation)

The stopping distance is the theoretical distance required to bring a known mass with a defined speed to a complete stop. During braking, kinetic energy is converted to friction energy.

The braking distance is additionally extended by the distance that the entire system requires until the braking process is initiated. Short hose lengths, rapid valves and clean rails shorten the stopping distance.

▶ Energy formulas:

$$W_{\text{Kin}} = \frac{1}{2} m \times v_0^2 \quad W_{\text{Fric}} = F \times A \times \frac{\mu_G}{\mu_H} \times S_B \quad W_{\text{Kin}} = W_{\text{Fric}}$$

▶ Braking distance S_B:

$$S_B = \frac{m \times v_0^2}{2 \times F \times A \times \frac{\mu_G}{\mu_H}} = \frac{50 \text{ kg} \times (2 \frac{\text{m}}{\text{s}})^2}{2 \times 3.100 \text{ N} \times 1 \times \frac{0,06}{0,1}} = 0,054 \text{ m}$$

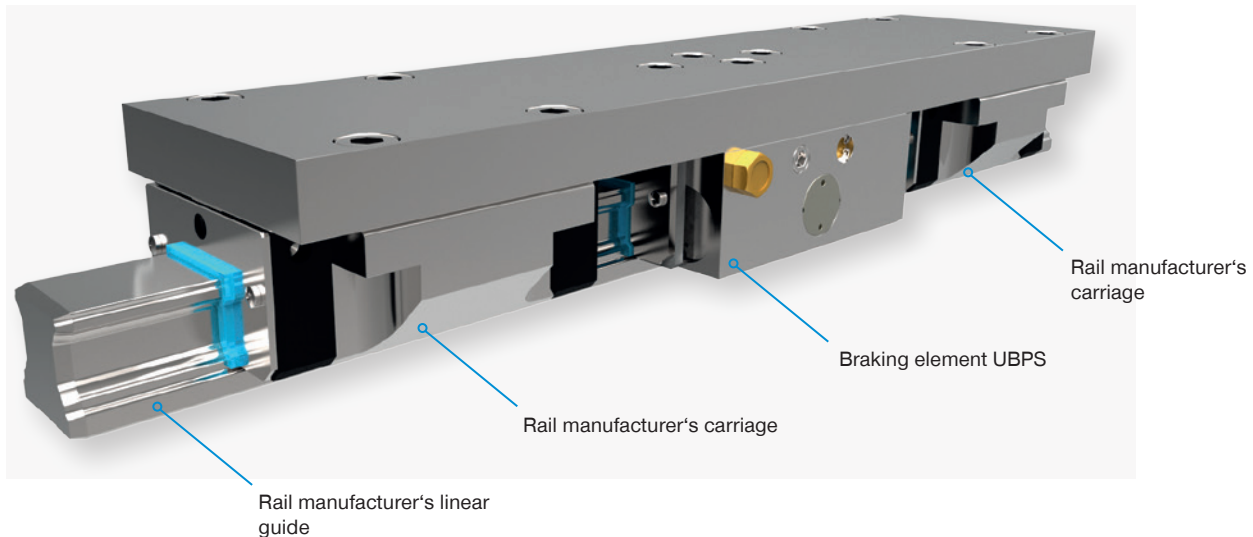
▶ Reaction distance and response distance S_R:

$$S_R = v_0 \times (t_R + t_A) = 2 \frac{\text{m}}{\text{s}} \times (0,06 \text{ s} + 0,01 \text{ s}) = 0,14 \text{ m}$$

▶ Stopping distance S_H:

$$S_H = S_B + S_R = 0,054 \text{ m} + 0,14 \text{ m} = 0,194 \text{ m}$$

► DESIGN



- The relevant mechanical engineering directives shall be observed when designing the axle, including brakes. We will be happy to provide design assistance.

► STOPPING DISTANCE (VERTICAL INSTALLATION)

FORMULAS

► Stopping distance (vertical installation)

With vertical installation, the system is accelerated by gravity until the braking element triggers and the braking process begins.

► Speed when braking begins V_{Brake} :

$$V_{\text{Brake}} = v_0 + g \times (t_R + t_A) = 2 \frac{\text{m}}{\text{s}} + 9,81 \frac{\text{m}}{\text{s}^2} \times (0,06 \text{ s} + 0,01 \text{ s}) = 2,69 \frac{\text{m}}{\text{s}}$$

► Braking distance S_B :

$$S_B = \frac{m \times v_{\text{Brake}}^2}{2 \times ((F \times A \times \frac{\mu_G}{\mu_H}) - m \times g)} = \frac{50 \text{ kg} \times (2,69 \frac{\text{m}}{\text{s}})^2}{2 \times ((3,100 \text{ N} \times 1 \times \frac{0,06}{0,1}) - 50 \text{ kg} \times 9,81 \frac{\text{m}}{\text{s}^2})} = 0,132 \text{ m}$$

► Reaction distance and response distance S_R :

$$S_R = v_0 \times (t_R + t_A) + \frac{1}{2} \times g \times (t_R + t_A)^2$$

$$= 2 \frac{\text{m}}{\text{s}} \times (0,06 \text{ s} + 0,01 \text{ s}) + \frac{1}{2} \times 9,81 \frac{\text{m}}{\text{s}^2} \times (0,06 \text{ s} + 0,01 \text{ s})^2 = 0,164$$

► Stopping distance S_H :

$$S_H = S_B + S_R = 0,132 \text{ m} + 0,164 \text{ m} = 0,296 \text{ m}$$

CLAMPING AND BRAKING ELEMENTS OVERVIEW

PROFILE RAIL GUIDES

MANUAL

CLAMPING

N

HK Holding force up to 2000 N

Standard



PNEUMATIC

CLAMPING

NO

MK Holding force up to 2.250 N

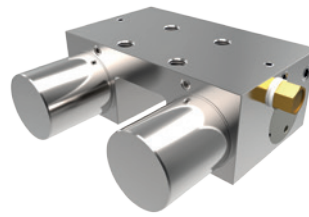
Standard



NC

MKS Holding force up to 1.450 N

Standard

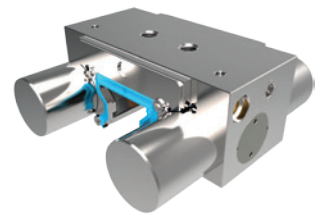


CLAMPING AND BRAKING

NC

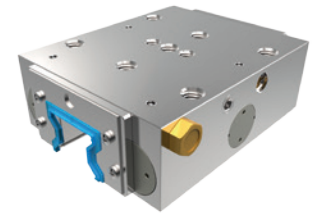
MBPS Holding force up to 4.700 N

Standard



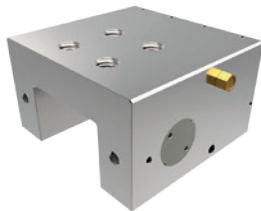
UBPS Holding force up to 7.700 N

Standard



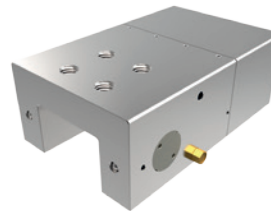
LKP Holding force up to 5.400 N

Narrow



LKPS Holding force up to 3.600 N

Narrow



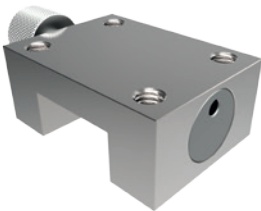
LBPS Holding force up to 750 N

Narrow



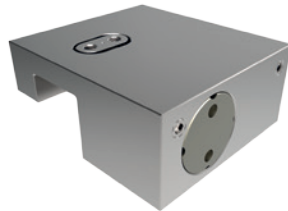
MINIHK Holding force up to 300 N

Miniature



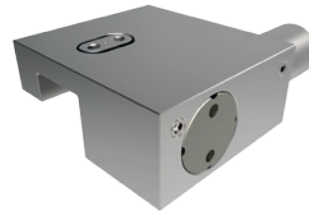
MCP Holding force up to 550 N

Miniature



MCPS Holding force up to 400 N

Miniature



Holding force

The holding force is the maximum force that can be applied in the axial direction.

The specified holding forces are tested before each delivery on every clamping and braking element using a slightly lubricated rail (ISO VG 68). In some cases, using other oil or lubricating substances can greatly influence the coefficient of friction, which can cause crucial loss of holding force in individual cases..



F = max. holding force



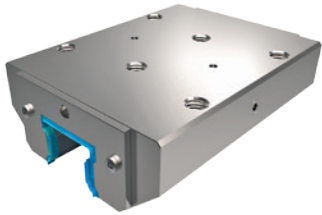
PROFILE RAIL GUIDES

HYDRAULIC

CLAMPING

NO

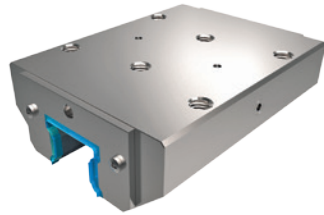
KWH Holding force up to 46.000 N
Standard



CLAMPING AND BRAKING

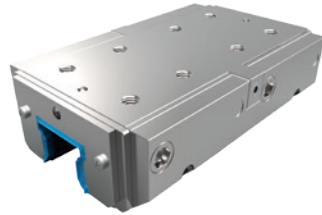
NO

KBH Holding force up to 46.000 N
Standard



NC

KBHS Holding force up to 25.000 N
Standard

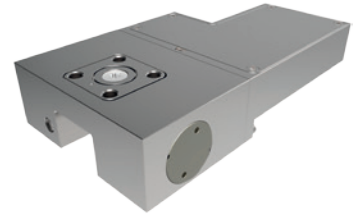


ELECTRICAL

CLAMPING

N

LCE Holding force up to 2000 N
Standard



CIRCULATOR AND SHAFT GUIDES

MANUAL

CLAMPING

N

HKR Holding force up to 2000 N
Standard



PNEUMATIC

CLAMPING

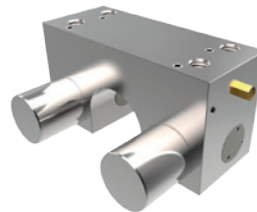
NO

MKR Holding force up to 1.850 N
Standard



NC

MKRS Holding force up to 1.650 N
Standard



CLAMPING AND BRAKING

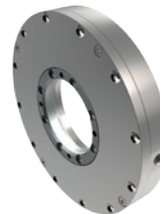
NC

RBPS Holding force up to 35.000 N
Standard



TPS

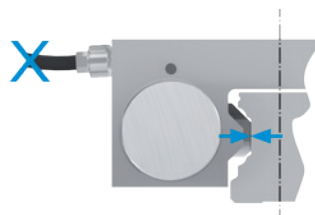
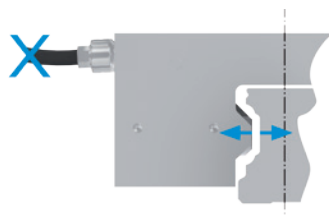
Holding force up to 1.000 N
Rotary



N (bistable): remains in current position

NO (normally open): open without pressure

NC (normally closed): closed without pressure



CLAMPING AND BRAKING ELEMENTS

OVERVIEW

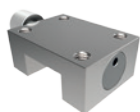
PROFILE RAIL GUIDES

MANUAL



HK

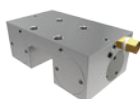
24



MINIHK

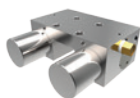
26

PNEUMATIC



MK

28



MKS

30



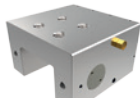
MBPS

32



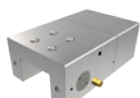
UBPS

34



LKP

36



LKPS

38



LBPS

40



MCP

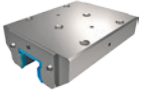
42



MCPS

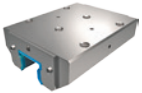
44

HYDRAULIC



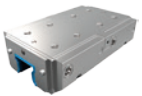
KWH

46



KBH

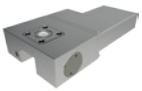
48



KBHS

50

ELECTRICAL



LCE

52

CIRCULATOR AND SHAFT GUIDES

MANUAL



HKR

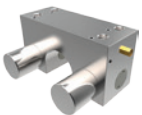
54

PNEUMATIC



MKR

56



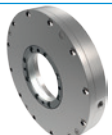
MKRS

58



RBPS

60



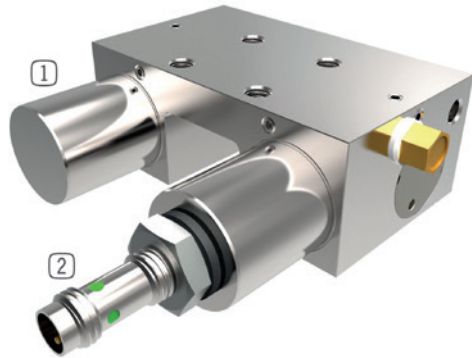
TPS

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CLAMPING AND BRAKING ELEMENTS

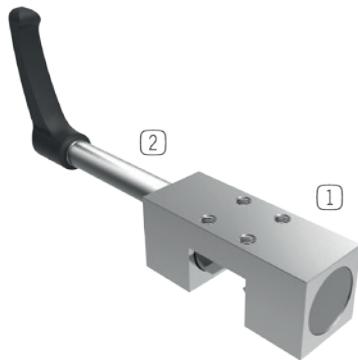
SPECIAL SOLUTIONS

► SPECIAL SOLUTIONS



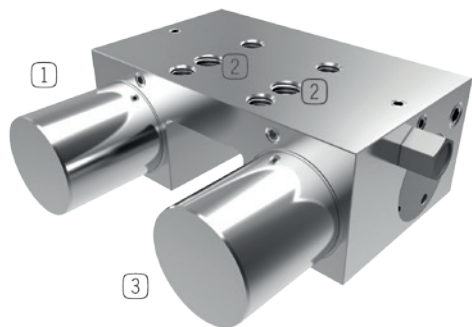
- Pneumatic clamping element with initiator
- for sensing piston position (opened)
- Other series available on request

- ① MKS
- ② Initiator



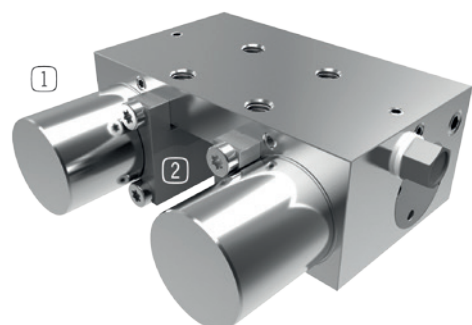
- Manual clamping element with extended clamping lever

- ① HK
- ② Extended manual lever



- Pneumatic clamping element with special screw fitting and 4 bar of opening pressure
- Weaker spring energy storage for opening with 4 bar
- Other series available on request

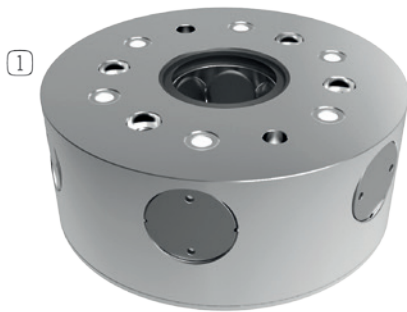
- ① MKS
- ② Special screw fitting
- ③ Spring energy storage



- Pneumatic clamping element with special clamping jaws
- Custom adaptation of clamping jaws to linear guide
- Other series available on request

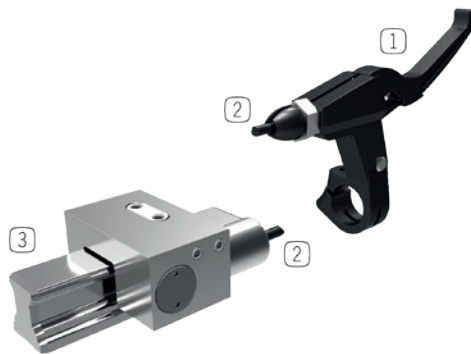
- ① MKS
- ② Special contact profile

► SYSTEMS



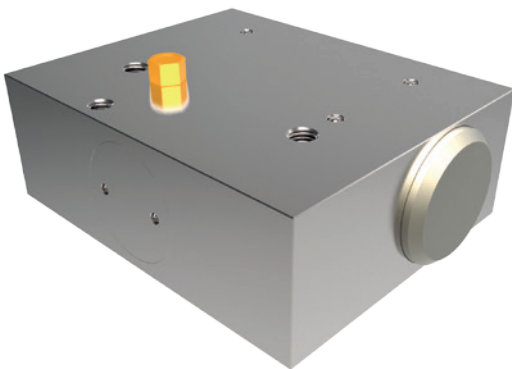
- Pneumatic clamping element for circulator and shaft guides
- For a size 30 shaft guide
- Holding force of 6000 N at 10 bar

① MKR



- Manually activated clamping element with springenergy storage
- Activated with a bowden cable

- ① Activation lever (release handle)
- ② Bowden cable
- ③ Linear guide



- Pneumatic clamping element for U-profile rails
- Custom adaptation to a roller slide

CLAMPING AND BRAKING ELEMENTS SELECT BY RAIL MANUFACTURER



SUITABLE FOR
BOSCH-REXROTH

1 Page 64 - 81



SUITABLE FOR
CPC

2 Page 82 - 89



SUITABLE FOR
HIWIN

3 Page 90 - 109



SUITABLE FOR
IGUS

4 Page 110



SUITABLE FOR
IKO

5 Page 112 - 149



SUITABLE FOR
INA

6 Page 150 - 173



SUITABLE FOR
NSK

7 Page 174 - 212



SUITABLE FOR
NTN-SNR

8 Page 214 - 219



SUITABLE FOR
PMI

9 Page 220 - 230



SUITABLE FOR
ROLLON

10 Page 232 - 235



SUITABLE FOR
SCHNEEBERGER

11 Page 236 - 245



SUITABLE FOR
SKF

12 Page 246 - 249



SUITABLE FOR
THK

13 Page 250 - 319



SUITABLE FOR
CIRCULATOR AND
SHAFT GUIDES

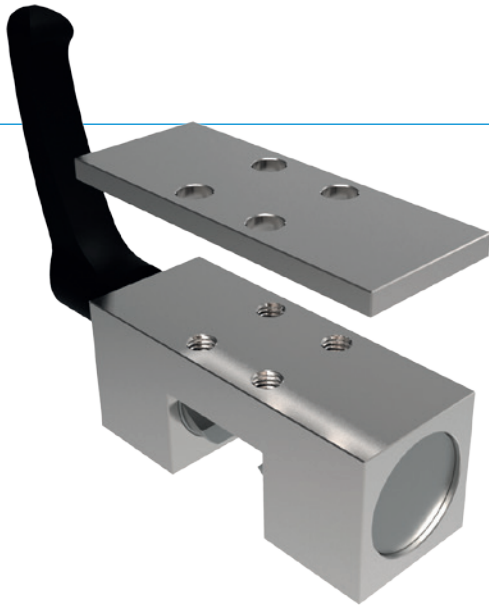
14 Page 320 - 325

Further linear guide manufacturers available on www.zimmer-group.com resp. upon request

CLAMPING ELEMENTS

SERIES HK

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Tool-free opening and closing (bi-stable)**
By turning the clamping lever
- ▶ **Maintenance free**
Up to 50,000 static clamping cycles

▶ INFORMATION ON THE PRODUCTS

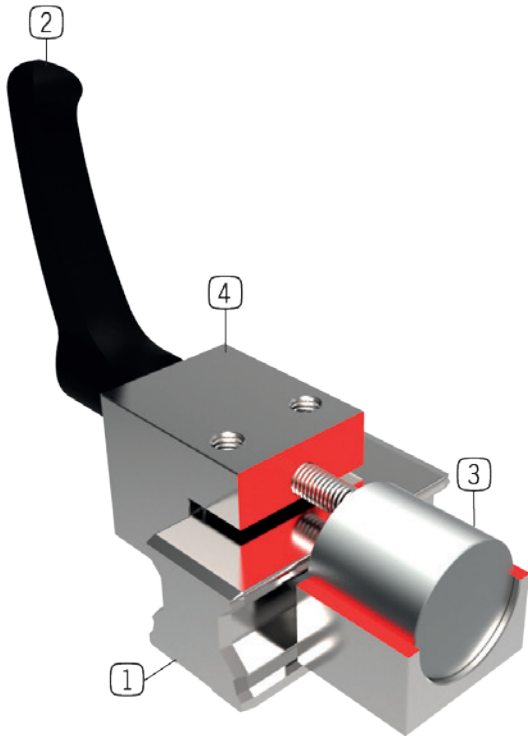
APPLICATION SCENARIOS

- ▶ **Table traverses and carriages**
- ▶ **Adjustment of width and stops**
- ▶ **Positioning of optic instruments and measuring tables**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
 - Operation using DIN 912 Allen screws
 - Extended clamping lever
 - made of stainless steel

► TECHNICAL DETAILS



- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Clamping lever made from plastic**
- Freely adjustable(detach by lifting)
- ③ **Clamping jaw**
- The floating bearings guarantee symmetrical application of force
- ④ **housing**
- chemically nickel plated steel

► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	12-100 mm
Holding force	1200-2000 N
Fastening torque clamp lever	4-22 Nm
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 50000
Braking cycles	not suitable
Operation	manual



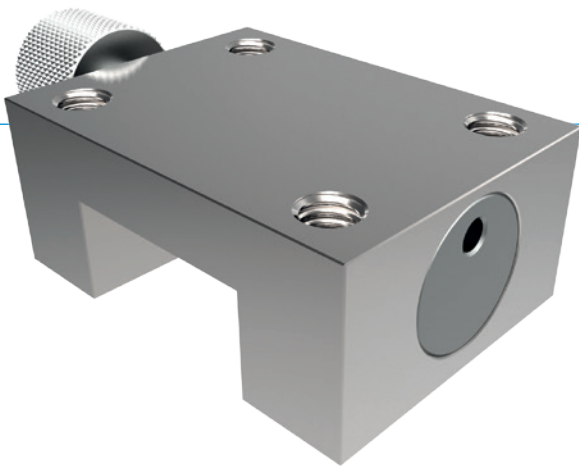
► Technical Information

All information just a click away at: www.zimmer-group.com
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
Quick, clear and always up-to-date.

CLAMPING ELEMENTS

SERIES MINIHK

▶ PRODUCT ADVANTAGES



- ▶ **small construction**
For all common miniature profile rail guides
- ▶ **Tool-free opening and closing (bi-stable)**
By turning the knurled screw
- ▶ **Maintenance free**
Up to 50,000 static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

- ▶ **Assembly aids**
- ▶ **Optical equipment**
- ▶ **Medical equipment**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).

► TECHNICAL DETAILS

1 Miniature profile rail guide

- Available for all common miniature profile rail guides

2 Stainless knurled screw

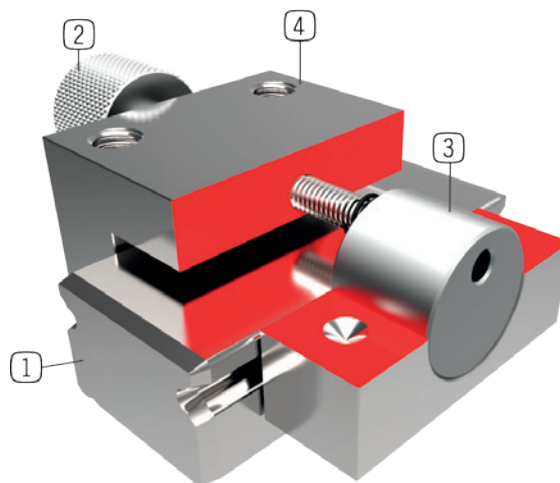
- For opening and closing the clamping unit

3 Clamping jaw

- The floating bearings guarantee symmetrical application of force

4 housing

- in non corrosive steel



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	3-42 mm
Holding force	40-300 N
Clamping torque knurled screw	0,07-2,5 Nm
Spring storage	inexistent
Clamping cycles	up to 50000
Braking cycles	not suitable
Operation	manual



► Technical Information

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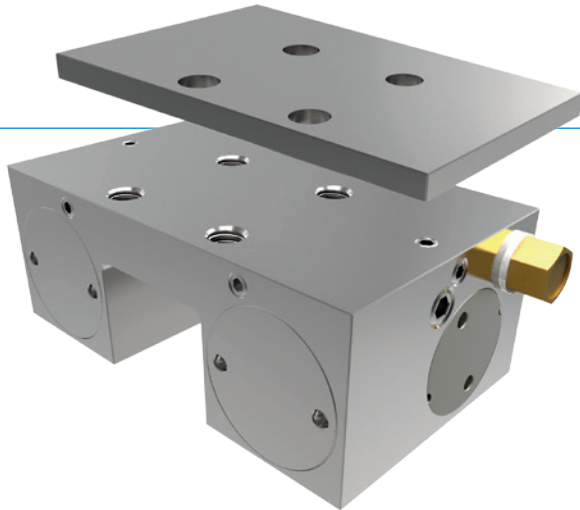
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CLAMPING ELEMENTS

SERIES MK

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **high durability**
Up to 5 million static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

- ▶ **Positioning of axes**
- ▶ **Fixing of vertical axes**
- ▶ **Positioning of lifting units**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
With proximity switch monitoring
With additional air connection (from above, from the front)

► TECHNICAL DETAILS

1 Profile rail guide

- Available for all common profile rail guides

2 Wedge-type gear

- Power transmission between piston and clamping jaw

3 Clamping jaw

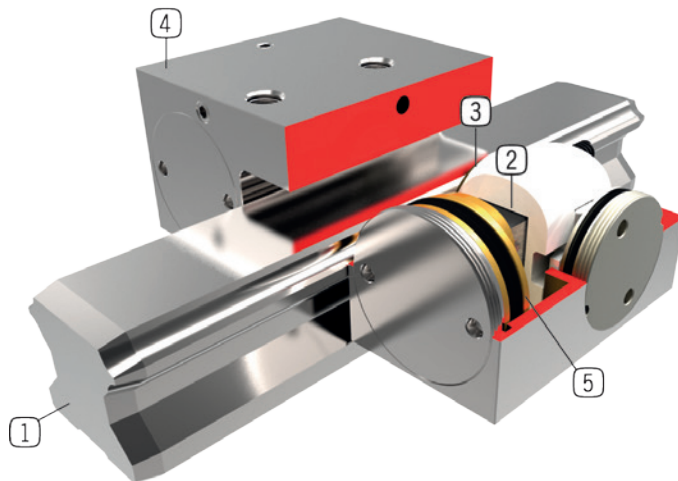
- Pressed at the free surfaces of the profile rail guide

4 housing

- chemically nickel plated steel

5 Pneumatic piston

- The piston moves the wedge-type gear longitudinally



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	12-100 mm
Holding force	350-2250 N
Pressure min.	3 bar
Pressure max.	6 bar
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



► Technical Information

All information just a click away at: www.zimmer-group.com

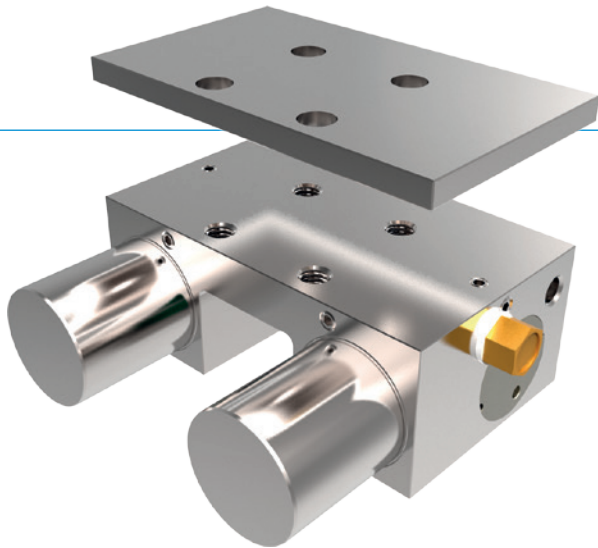
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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CLAMPING ELEMENTS

SERIES MKS

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Higher holding force**
Via activation with PLUS air
- ▶ **Safety element**
Safe clamping in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

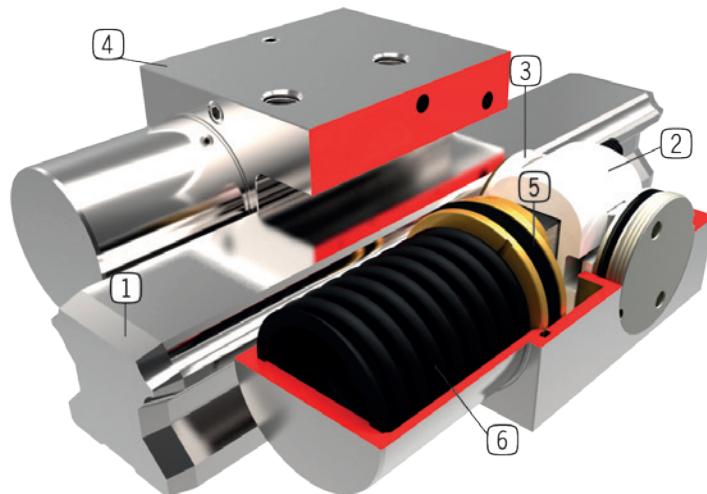
- ▶ **Clamping in case of pressure drop**
- ▶ **Clamping without energy requirement**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
 - With low opening pressure (3.0 bar or 4.0 bar)
 - With proximity switch monitoring
 - With additional air connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Wedge-type gear**
- Power transmission between piston and clamping jaw
- ③ **Clamping jaw**
- Pressed at the free surfaces of the profile rail guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	12-100 mm
Holding force	250-1450 N
Pressure min.	5.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	Yes
Clamping cycles	up to 5 million
Braking cycles	not suitable
Drive type	pneumatic



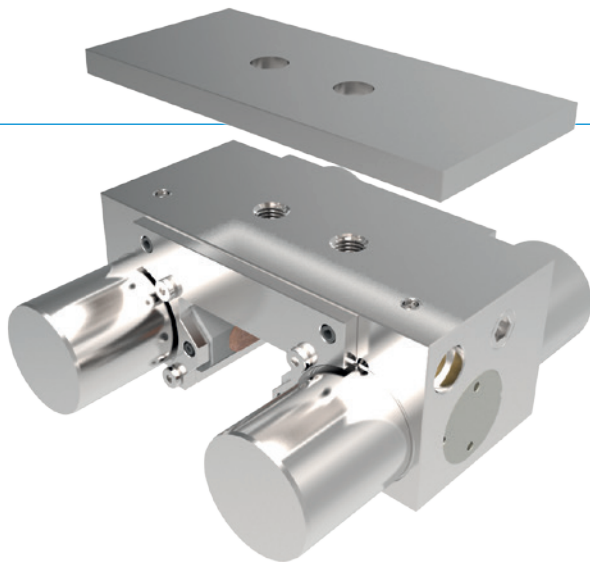
► Technical Information

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CLAMPING AND BRAKING ELEMENTS

SERIES MBPS

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe braking in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

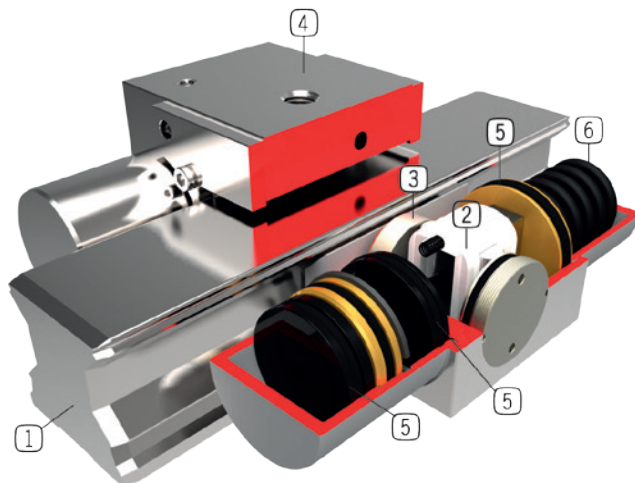
- ▶ **Clamping in case of pressure drop**
- ▶ **Emergency OFF function**
- ▶ **Braking linear motors**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
 - With proximity switch monitoring
 - With low opening pressure (3.0 bar)
 - With additional air connection (from above, from the front)

▶ TECHNICAL DETAILS

- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Wedge-type gear**
- Power transmission between the pistons and clamping jaws and brake shoes
- ③ **Clamping jaws and brake shoes**
- Pressed at the free surfaces of the profile rail guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit



▶ INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	15-55 mm
Holding force	750-4700 N
Pressure min.	4.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	up to 2000
Operation	pneumatic



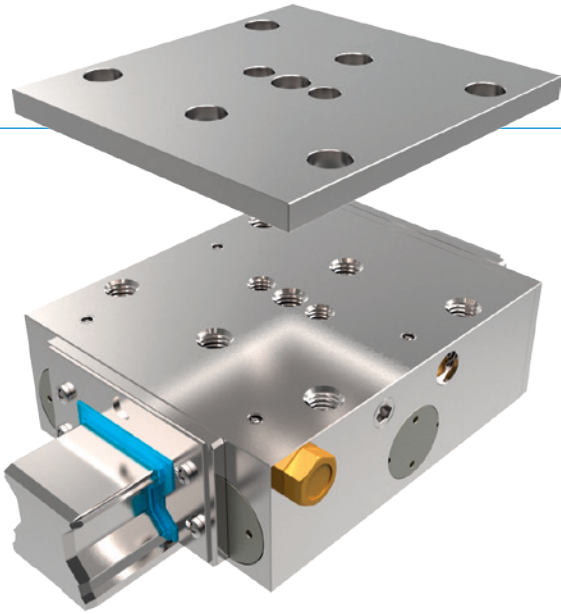
▶ Technical Information

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Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
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CLAMPING AND BRAKING ELEMENTS

SERIES UBPS

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Higher holding force**
Via activation with PLUS air
- ▶ **Safety element**
Safe braking in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

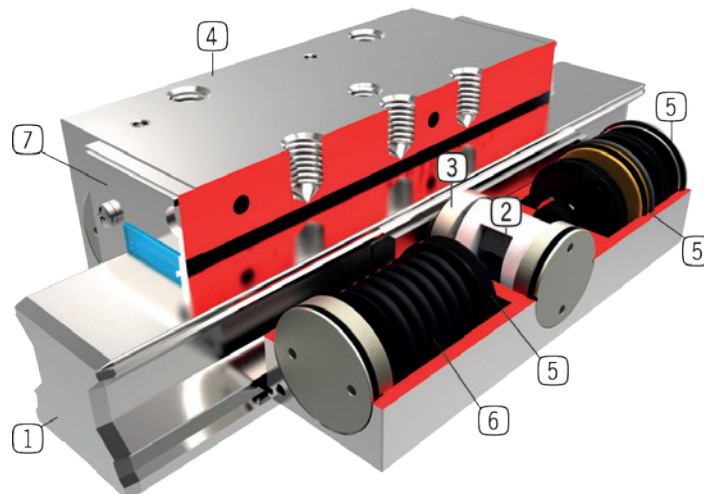
- ▶ **Emergency OFF function**
- ▶ **Z-axes positioning in neutral position**
- ▶ **Machine table clamping of work centre**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
 - With proximity switch monitoring
 - With low opening pressure (3.0 bar or 4.0 bar)
 - With additional air connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Profile rail guide**
 - Available for all common profile rail guides
- ② **Wedge-type gear**
 - Power transmission between the pistons and clamping jaws and brake shoes
- ③ **Clamping jaws and brake shoes**
 - Pressed at the free surfaces of the profile rail guide
- ④ **housing**
 - chemically nickel plated steel
- ⑤ **Pneumatic piston**
 - The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
 - For non-pressurized closing of the clamping unit
- ⑦ **Scraper**
 - Can also be ordered as an option



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	20-65 mm
Holding force	1500-9200 N
Pressure min.	5.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	Yes
Clamping cycles	up to 5 million
Braking cycles	up to 2000
Operation	pneumatic



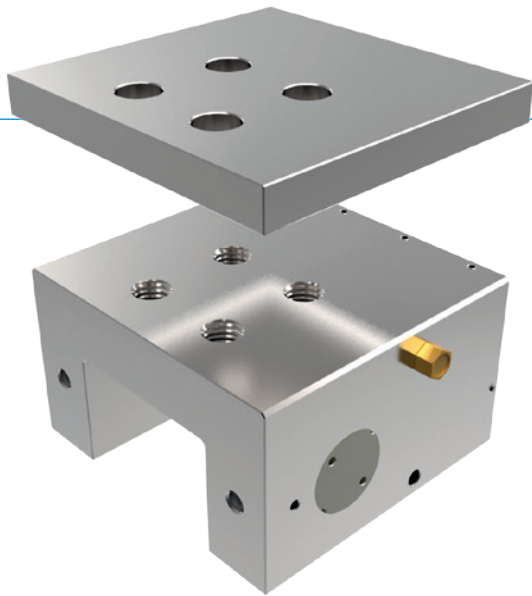
► Technical Information

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CLAMPING ELEMENTS

SERIES LKP

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Small and narrow design**
By using U-form piston

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

- ▶ **Clamping of machine tables**
- ▶ **Positioning of axes**
- ▶ **Fixing of vertical axes in neutral position**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
With additional air connection (from above, from the front)

► TECHNICAL DETAILS

1 Profile rail guide

- Available for all common profile rail guides

2 Wedge-type gear

- Power transmission between piston and clamping jaw

3 Clamping jaw

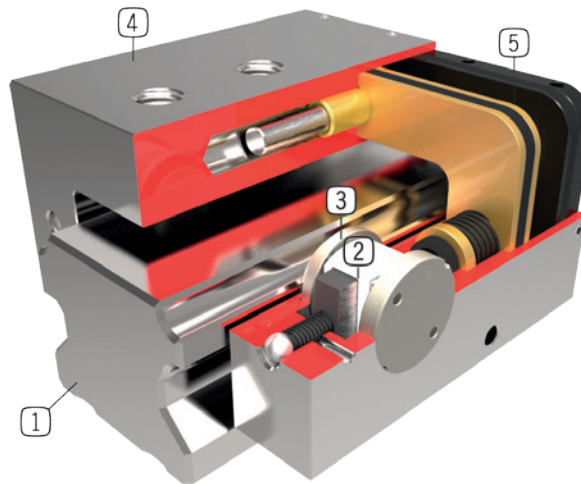
- Pressed at the free surfaces of the profile rail guide

4 Narrow housing

- chemically nickel plated steel

5 Pneumatic piston

- The piston moves the wedge-type gear longitudinally



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	15-35 mm
Holding force	550-5400 N
Pressure min.	3 bar
Pressure max.	6 bar
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



► Technical Information

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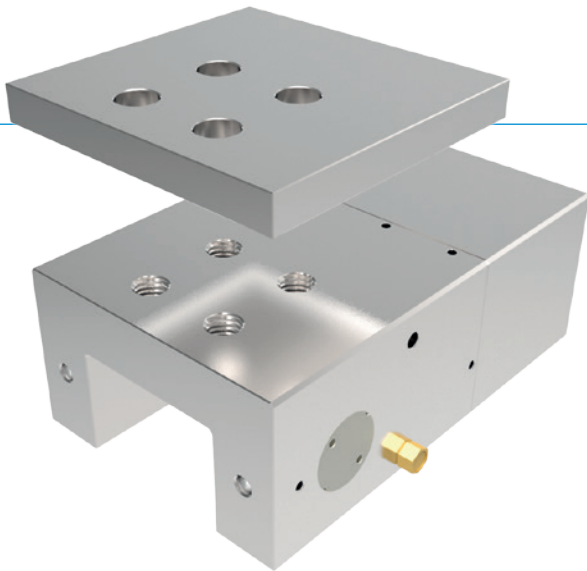
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CLAMPING ELEMENTS

SERIES LKPS

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Small and narrow design**
By using U-form piston
- ▶ **Safety element**
Safe clamping in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

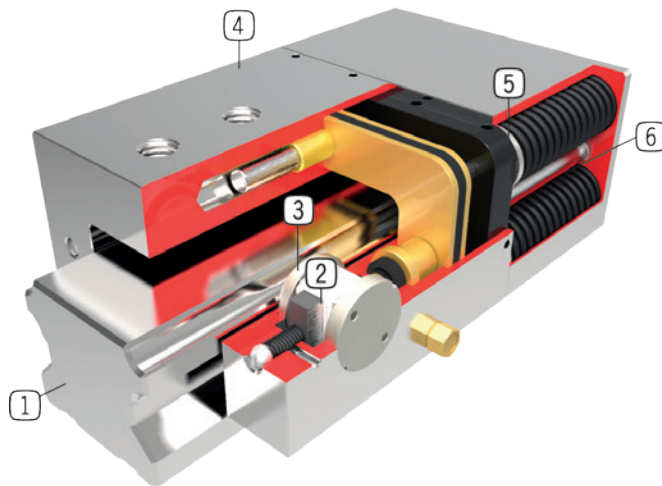
- ▶ **Clamping in case of pressure drop**
- ▶ **Clamping without energy requirement**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
With low opening pressure (3.0 bar or 4.0 bar)
With additional air connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Wedge-type gear**
- Power transmission between piston and clamping jaw
- ③ **Clamping jaw**
- Pressed at the free surfaces of the profile rail guide
- ④ **Narrow housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	15-35 mm
Holding force	400-3600 N
Pressure min.	5.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



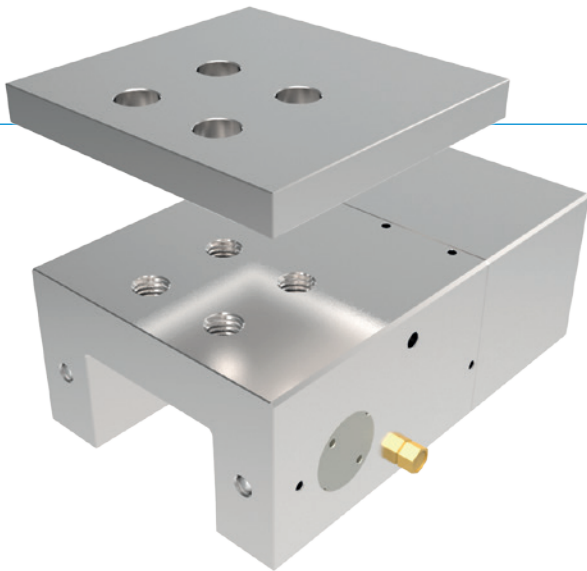
► Technical Information

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CLAMPING AND BRAKING ELEMENTS

SERIES LBPS

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Small and narrow design**
By using U-form piston
- ▶ **Safety element**
Safe braking in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

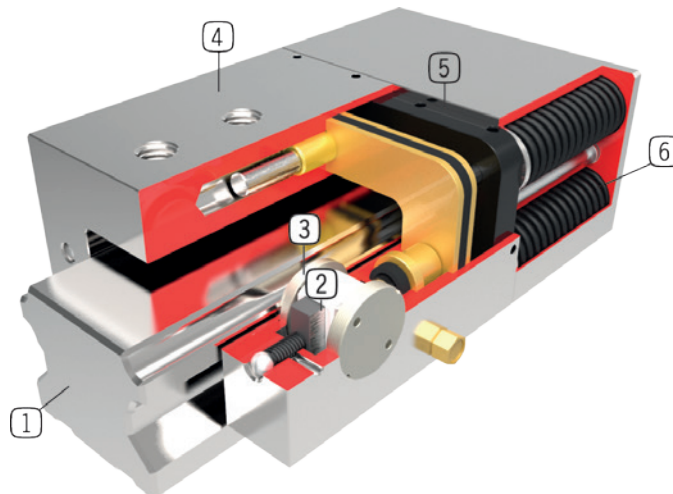
- ▶ **Clamping in case of pressure drop**
- ▶ **Braking linear motors**
- ▶ **Clamping without energy requirement**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Special variants on request, e.g.**
 - With proximity switch monitoring
 - With low opening pressure (3.0 bar or 4.0 bar)
 - With additional air connection (from above, from the front)

▶ TECHNICAL DETAILS

- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Wedge-type gear**
- Power transmission between the pistons and clamping jaws and brake shoes
- ③ **Clamping jaws and brake shoes**
- Pressed at the free surfaces of the profile rail guide
- ④ **Narrow housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit



▶ INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	15-35 mm
Holding force	400-3600 N
Pressure min.	5.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	up to 500
Operation	pneumatic



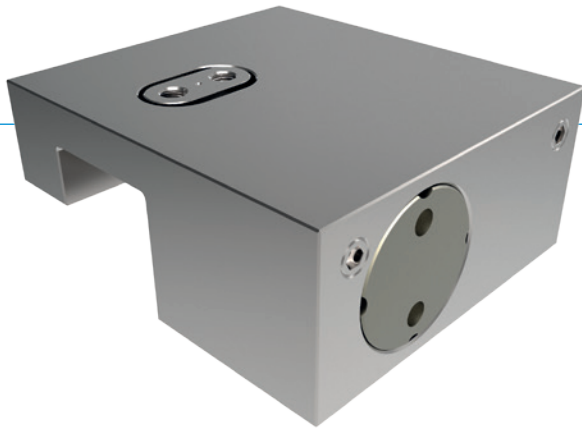
▶ Technical Information

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CLAMPING ELEMENTS

SERIES MCP

▶ PRODUCT ADVANTAGES



- ▶ **small construction**
For all common miniature profile rail guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **high durability**
Up to 5 million static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

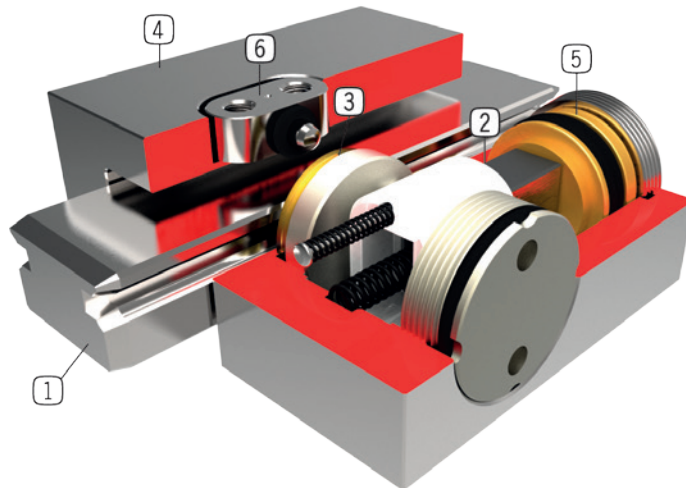
- ▶ **Clamping of machine tables**
- ▶ **Positioning of axes**
- ▶ **Fixing of vertical axes in neutral position**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With additional air connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Miniature profile rail guide**
- Available for all common miniature profile rail guides
- ② **Wedge-type gear**
- Power transmission between piston and clamping jaw
- ③ **Clamping jaw**
- Pressed at the free surfaces of the profile rail guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Sliding block**
- For floating bearings



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	5-25 mm
Holding force	130-550 N
Pressure min.	3 bar
Pressure max.	6 bar
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



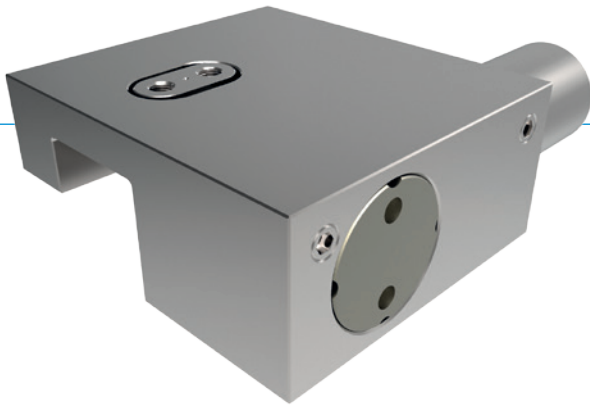
► Technical Information

All information just a click away at: www.zimmer-group.com
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
Quick, clear and always up-to-date.

CLAMPING ELEMENTS

SERIES MCPS

▶ PRODUCT ADVANTAGES



- ▶ **small construction**
For all common miniature profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Higher holding force**
Via activation with PLUS air
- ▶ **Safety element**
Safe clamping in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

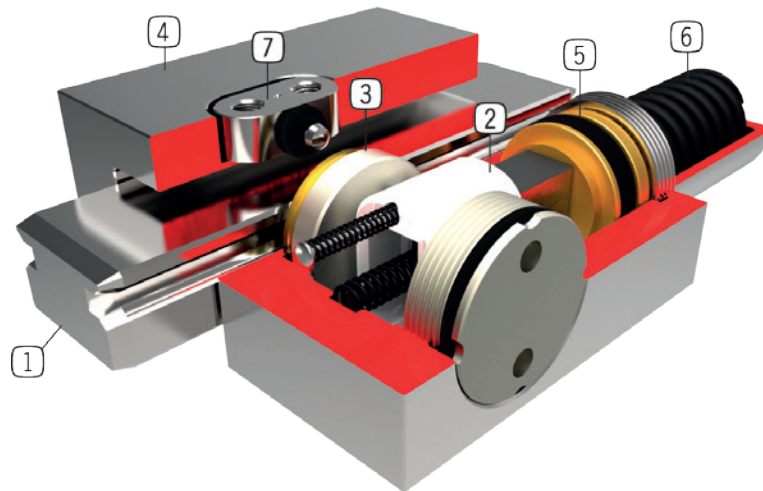
- ▶ **Clamping in case of pressure drop**
- ▶ **Clamping without energy requirement**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With low opening pressure (3.0 bar or 4.0 bar)
With additional air connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Miniature profile rail guide**
- Available for all common miniature profile rail guides
- ② **Wedge-type gear**
- Power transmission between piston and clamping jaw
- ③ **Clamping jaw**
- Pressed at the free surfaces of the profile rail guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit
- ⑦ **Sliding block**
- For floating bearings



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	5-25 mm
Holding force	80-400 N
Pressure min.	5.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	Yes
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



► Technical Information

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CLAMPING ELEMENTS

SERIES KWH

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **extremely durable**
Up to 10 million static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

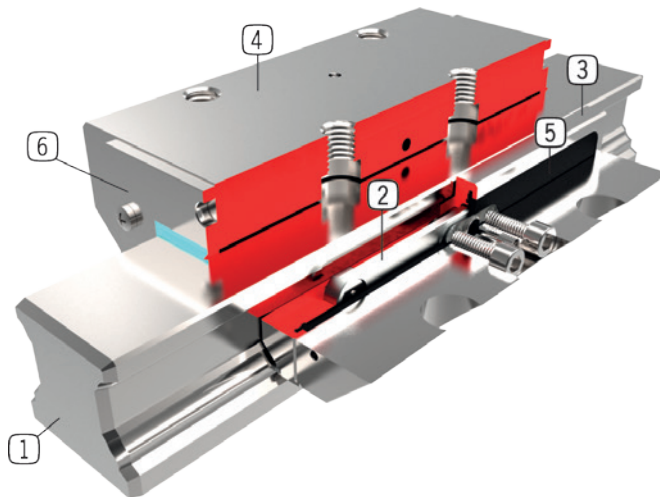
- ▶ **Machine table clamping of heavy cutting work centres**
- ▶ **Clamping of heavy handling systems**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With additional hydraulic connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Return spring**
- Interlocked integration in the jaws
- ③ **Clamping jaw**
- Pressed at the free surfaces of the profile rail guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Membran**
- For pressurization up to 150 bar
- ⑥ **Scraper**
- Can also be ordered as an option



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	25-125 mm
Holding force	1600-46000 N
Allowable operating pressure	100-150 bar
Allowable point pressure	110-160 bar
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 10 million
Braking cycles	not suitable
Operation	hydraulic



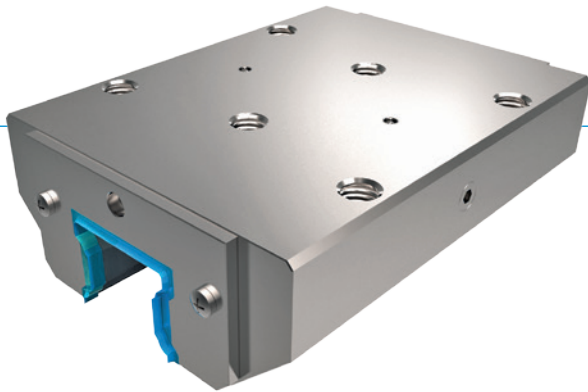
► Technical Information

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CLAMPING AND BRAKING ELEMENTS

SERIES KBH

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **extremely durable**
Up to 10 million static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

- ▶ **Machine table clamping of heavy cutting work centres**
- ▶ **Clamping and braking of heavy handling systems**
- ▶ **Braking**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With additional hydraulic connection (from above, from the front)

► TECHNICAL DETAILS

1 Profile rail guide

- Available for all common profile rail guides

2 Return spring

- Interlocked integration in the jaws

3 Clamping jaws and brake shoes

- Pressed at the free surfaces of the profile rail guide

4 housing

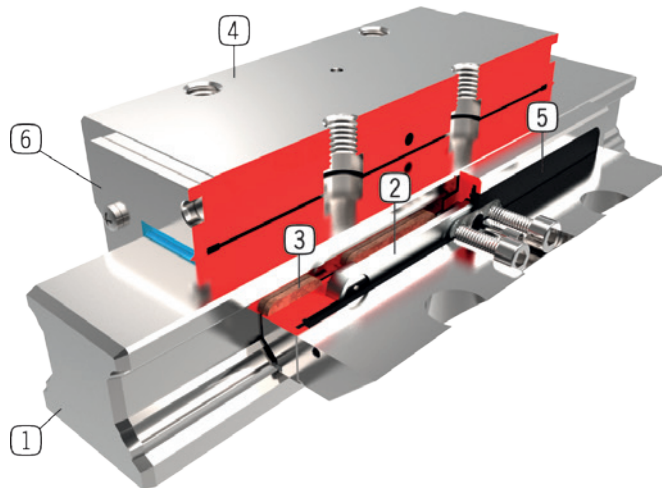
- chemically nickel plated steel

5 Membran

- For pressurization up to 150 bar

6 Scraper

- Can also be ordered as an option



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	25-125 mm
Holding force	2200-46000 N
Allowable operating pressure	100-150 bar
Allowable point pressure	110-160 bar
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 10 million
Braking cycles	up to 2000
Operation	hydraulic



► Technical Information

All information just a click away at: www.zimmer-group.com

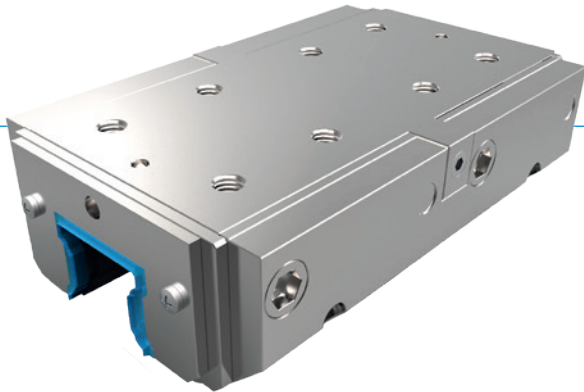
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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CLAMPING AND BRAKING ELEMENTS

SERIES KBHS

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **the power pack**
Up to 500,000 static clamping cycles
- ▶ **Safety element**
Safe braking in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

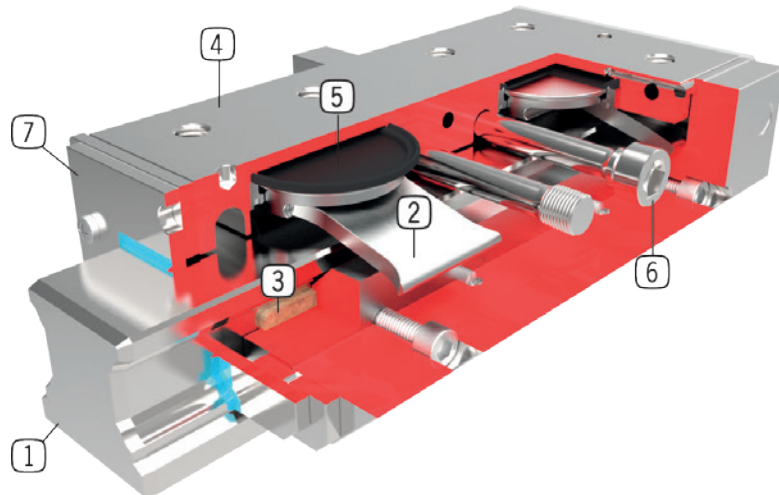
- ▶ **Clamping and braking of heavy handling systems**
- ▶ **Braking in emergency OFF situations**
- ▶ **Clamping in case of pressure drop**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With additional hydraulic connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Profile rail guide**
- Available for all common profile rail guides
- ② **Knee lever**
- Used for opening the element
- ③ **Clamping jaws and brake shoes**
- Pressed at the free surfaces of the profile rail guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Membran**
- For pressurization up to 150 bar
- ⑥ **Extension bolt**
- For generating clamping force
- ⑦ **Scraper**
- Included in delivery



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	35-125 mm
Holding force	7500-25000 N
Allowable operating pressure	150 bar
Allowable point pressure	160 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 100000
Braking cycles	up to 2000
Operation	hydraulic



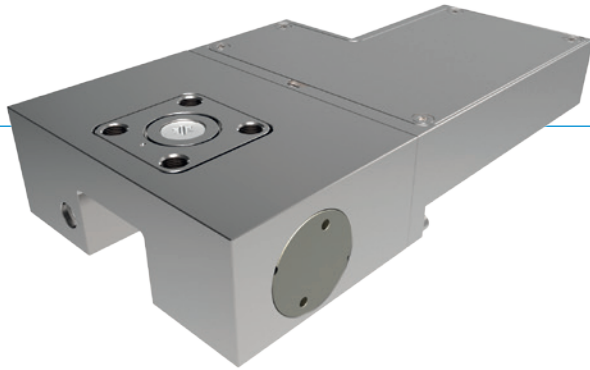
► Technical Information

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Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
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CLAMPING ELEMENTS

SERIES LCE

▶ PRODUCT ADVANTAGES



- ▶ **broad range of products**
For all common profile rail guides
- ▶ **energy-efficient (bistable)**
Opens and closes using 24 V DC voltage
- ▶ **Purely electric**
Up to 1 million static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

- ▶ **Axes with electric positioning**
- ▶ **Table traverses in medical applications**
- ▶ **Electric clamping of machine tables**

FURTHER INFORMATION

- ▶ **Adapter plate**
In addition, an adapter plate might have to be ordered as height compensation depending on the height of the runner block (dimension D).
- ▶ **Accessories**
The connecting line must be ordered separately:
CSTE00-10 with straight plug (10 m)
CSTE90-10 with 90° angle plug (10 m)
special version with permanently connected cable (3 m)

► TECHNICAL DETAILS

1 Profile rail guide

- Available for all common profile rail guides

2 Wedge-type gear

- Power transmission between motor and clamping jaw

3 Clamping jaw

- Pressed at the free surfaces of the profile rail guide

4 housing

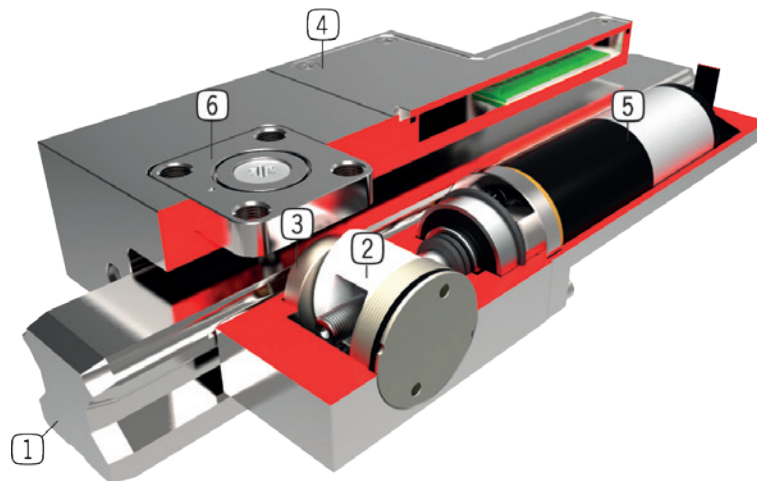
- chemically nickel plated steel

5 electric drive

- Moves the wedge-type gear longitudinally

6 Sliding block

- For floating bearings



► INFORMATION ON THE SERIES

TECHNICAL DATA

Rail size	15-35 mm
Holding force	550-1600 N
Spring storage	inexistent
Clamping cycles	up to 1 million
Braking cycles	not suitable
Protection to IEC 60529	IP65
Supply Voltage	24 [V DC]
Operation	electric



► Technical Information

All information just a click away at: www.zimmer-group.com

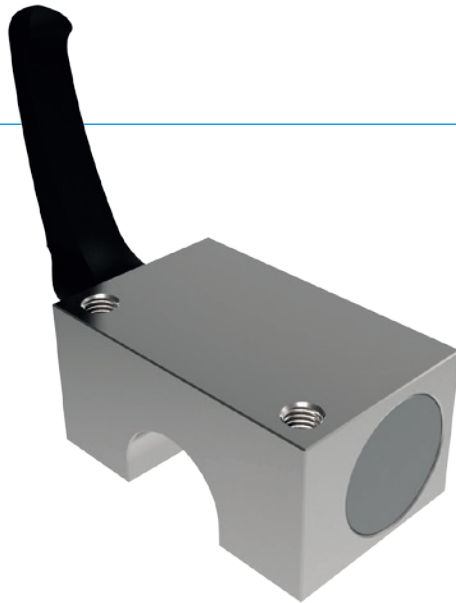
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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CLAMPING ELEMENTS

SERIES HKR

▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Tool-free opening and closing (bi-stable)**
By turning the clamping lever
- ▶ **Maintenance free**
Up to 50,000 static clamping cycles

▶ INFORMATION ON THE PRODUCTS

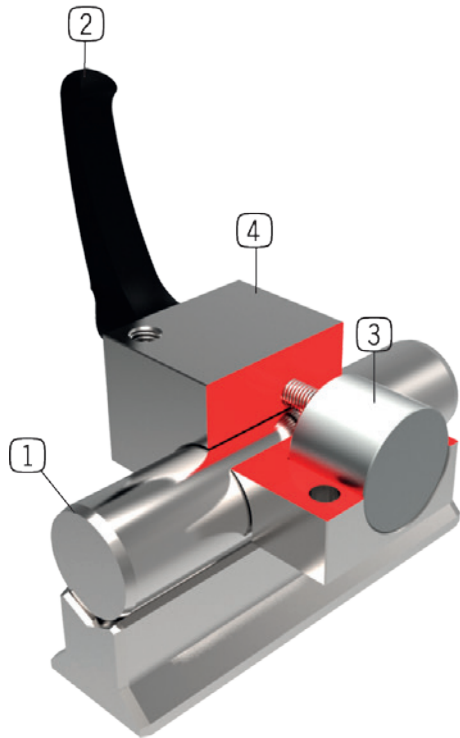
APPLICATION SCENARIOS

- ▶ **Table traverses in wood industry**
- ▶ **Adjustment of width in plastics processing**
- ▶ **Positioning of optic instruments and measuring tables**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
Operation using DIN 912 Allen screws
Extended clamping lever
made of stainless steel

► TECHNICAL DETAILS



- ① **Circular guide**
- Compatible with circular and shaft guides
- ② **Clamping lever made from plastic**
- Freely adjustable(detach by lifting)
- ③ **Clamping jaw**
- The floating bearings guarantee symmetrical application of force
- ④ **housing**
- chemically nickel plated steel

► INFORMATION ON THE SERIES

TECHNICAL DATA

Shaft diameter	12-50 mm
Holding force	1200 - 2000 N
Fastening torque clamp lever	5-17 Nm
Spring storage	inexistent
Clamping cycles	up to 50000
Braking cycles	not suitable
Operation	manual



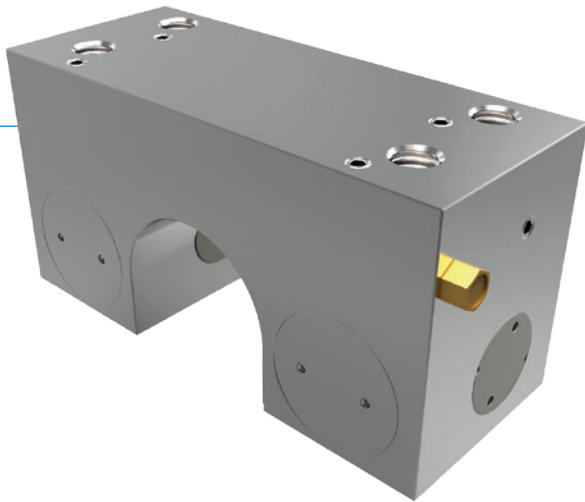
► Technical Information

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Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
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CLAMPING ELEMENTS

SERIES MKR

▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **high durability**
Up to 5 million static clamping cycles

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

- ▶ **Fixing of vertical axes**
- ▶ **Positioning of lifting units**
- ▶ **Clamping of machine tables**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With proximity switch monitoring
With additional air connection (from above, from the front)

► TECHNICAL DETAILS

1 Circular guide

- Compatible with circular and shaft guides

2 Wedge-type gear

- Power transmission between piston and clamping jaw

3 Clamping jaw

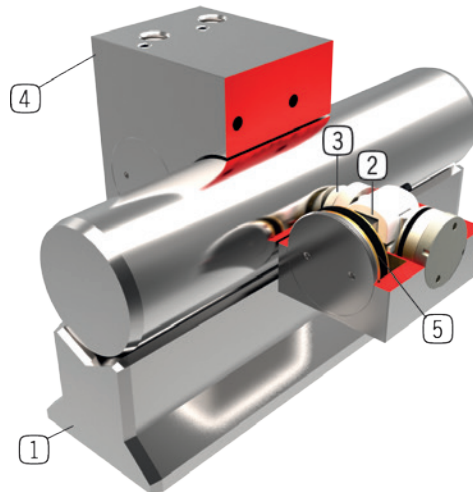
- Pressed at the circular guide

4 housing

- chemically nickel plated steel

5 Pneumatic piston

- The piston moves the wedge-type gear longitudinally



► INFORMATION ON THE SERIES

TECHNICAL DATA

Shaft diameter	12-60 mm
Holding force	650-2000 N
Pressure min.	3 bar
Pressure max.	6 bar
Spring storage	inexistent
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



► Technical Information

All information just a click away at: www.zimmer-group.com

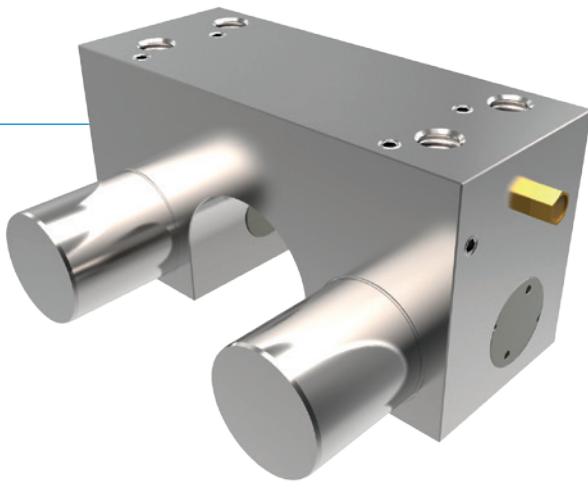
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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CLAMPING ELEMENTS

SERIES MKRS

▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe clamping in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

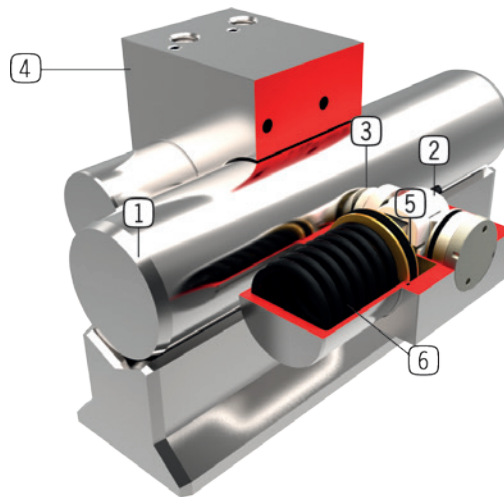
- ▶ **Clamping in case of pressure drop**
- ▶ **Clamping without energy requirement**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
 - With proximity switch monitoring
 - With low opening pressure (3.0 bar or 4.0 bar)
 - With additional air connection (from above, from the front)

► TECHNICAL DETAILS

- ① **Circular guide**
- Compatible with circular and shaft guides
- ② **Wedge-type gear**
- Power transmission between piston and clamping jaw
- ③ **Clamping jaw**
- Pressed at the circular guide
- ④ **housing**
- chemically nickel plated steel
- ⑤ **Pneumatic piston**
- The piston moves the wedge-type gear longitudinally
- ⑥ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit



► INFORMATION ON THE SERIES

TECHNICAL DATA

Shaft diameter	12-60 mm
Holding force	350-1700 N
Pressure min.	5.5 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable
Operation	pneumatic



► Technical Information

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CLAMPING AND BRAKING ELEMENTS

SERIES RBPS

▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe braking in case of energy failure

▶ INFORMATION ON THE PRODUCTS

APPLICATION SCENARIOS

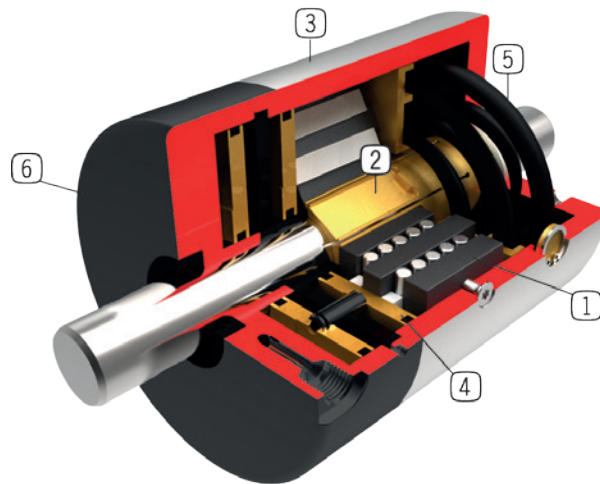
- ▶ **Positioning of axes**
- ▶ **Fixing of vertical axes**
- ▶ **Positioning of lifting units**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With proximity switch monitoring
With low opening pressure (3.0 bar)

► TECHNICAL DETAILS

- ① **Wedge-type gear**
- Power transmission between piston and collet chuck
- ② **Collet chuck for clamping and braking**
- Pressed at the circular guide
- ③ **housing**
- chemically nickel plated steel
- ④ **Pneumatic piston**
- The ring piston moves the wedge-type gear longitudinally
- ⑤ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit
- ⑥ **Cover**
- hard coated aluminium alloy



► INFORMATION ON THE SERIES

TECHNICAL DATA

Shaft diameter	5-60 mm
Holding force	3000-35000 N
Pressure min.	4 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	up to 2000
Operation	pneumatic



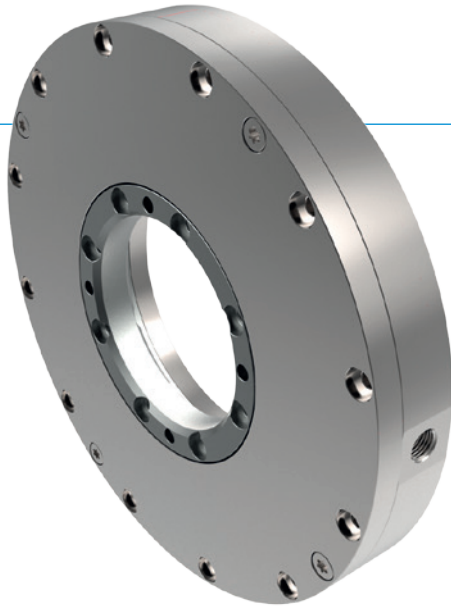
► Technical Information

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CLAMPING ELEMENTS

SERIES TPS

▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe clamping in case of energy failure

▶ INFORMATION ON THE PRODUCTS

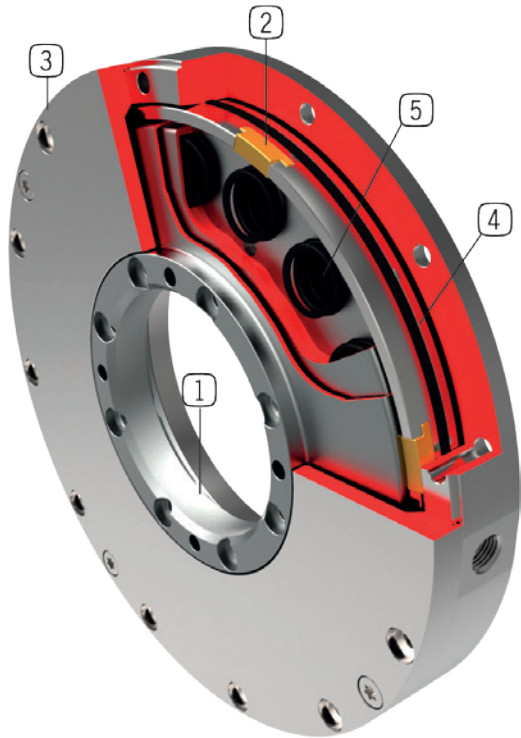
APPLICATION SCENARIOS

- ▶ **Torque take-up of shafts**
- ▶ **For deployment in torque motors**
- ▶ **For deployment in rotating disc contactors**

FURTHER INFORMATION

- ▶ **Special variants on request, e.g.**
With proximity switch monitoring
With low opening pressure (3.0 bar or 4.0 bar)

► TECHNICAL DETAILS



- ① **clamping washer**
- For fastening to the shaft
- ② **Clamping segments**
- Fastens clamping disk inside the element
- ③ **housing**
- chemically nickel plated steel
- ④ **Pneumatic piston**
- Ring pistons move the clamping segments longitudinally
- ⑤ **Spring-loaded energy storage**
- For non-pressurized closing of the clamping unit

► INFORMATION ON THE SERIES

TECHNICAL DATA

Shaft diameter	15-320 mm
Holding torque	60-1000 Nm
Pressure min.	4 bar
Pressure max.	6 bar
Spring storage	existing
PLUS connection	No
Clamping cycles	up to 5 million
Braking cycles	not suitable



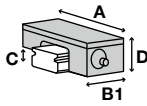
► Technical Information

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► RAIL TYPE: R0445KUGEL

Series MCP pneumatic Clamping NO

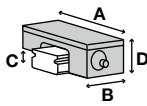
rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
7	R0442, R0444			
9	R0442..9/M3, R0444..9/M3	MCP0901A		10.0
12	R0442, R0444	MCP1205A		13.0
15	R0442, R0444	MCP1505A		16.0
20	R0442	MCP2005A		25.0



► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1205A	280	37.5	34.0	2.95
MCP1505A	320	41.5	34.0	3.95
MCP2005A	550	48.7	41.0	7.45
MCP0901A	130	32.5	34.0	2.15

Series MCPS pneumatic Clamping NC

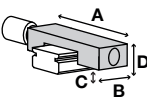
rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
7	R0442, R0444			
9	R0442..9/M3, R0444..9/M3	MCPS0901A		10.0
12	R0442, R0444	MCPS1205A		13.0
15	R0442, R0444	MCPS1505A		16.0
20	R0442	MCPS2005A		25.0



► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1205A	240	37.5	52.5	2.95
MCPS1505A	280	41.5	52.5	3.95
MCPS2005A	400	48.7	60.0	7.45
MCPS0901A	80	32.5	52.5	2.15

Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	R0442, R0444	HK0700M		8.0
9	R0442..9/M3, R0444..9/M3	HK0900M		10.0
12	R0442, R0444	HK1200M		13.0
15	R0442, R0444	HK1500M		16.0
20	R0442	HK2000M		25.0



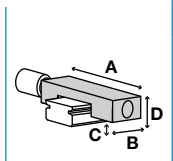
► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK2000M	220	46.0	26.0	10.0
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ **RAIL TYPE: R0455-BREITKUGEL**

Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
9	R0441, R0443	HK0900MW		12.0



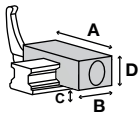
▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK0900MW	100	30.0	17.0	4.2

► RAIL TYPE: R16KUGEL

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	HK1505KR		24.0
15	R1621	HK1505KR	PHK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	HK2005KR		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	HK2505KR		36.0
25	R1621, R1624	HK2505KR	PHK25-4	40.0
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	HK3005KR		42.0
30	R1621, R1624	HK3005KR	PHK30-3	45.0
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	HK3505KR		48.0
35	R1621, R1624	HK3505KR	PMK35-7	55.0
45	R1651, R1653, R1622, R1623	HK4505KR		60.0
45	R1621, R1624	HK4505KR	PHK45-10	70.0
55	R1651, R1653, R1622, R1623	HK5505KR		70.0
55	R1621, R1624	HK5505KR	PHK55-10	80.0
65	R1651, R1653, R1622, R1623	HK6505KR		90.0

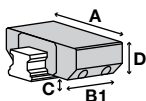
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1505KR	1200	47.0	24.0	5.0
HK2005KR	1200	60.0	24.0	7.0
HK2505KR	1200	70.0	30.0	7.0
HK3005KR	2000	90.0	39.0	9.0
HK3505KR	2000	100.0	39.0	7.0
HK4505KR	2000	120.0	44.0	12.0
HK5505KR	2000	140.0	49.0	19.0
HK6505KR	2000	160.0	64.0	24.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	R1661, R1665, R1651, R1653, R1631	KBH2505AS1		36.0
25	R1662, R1666, R1622, R1623, R1621, R1624	☉		
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1621, R1624	☉		
35	R1661, R1665, R1651, R1653, R1631	KBH3505AS1		48.0
35	R1662, R1666, R1622, R1623, R1621, R1624	☉		
45	R1651, R1653	KBH4505AS1		60.0
45	R1622, R1623	KBH4505AS2		60.0
45	R1621, R1624	☉		
55	R1651, R1653	KBH5505AS1		70.0
55	R1622, R1623, R1621, R1624	☉		
65	R1651, R1653	KBH6505AS1		90.0
65	R1622, R1623	KBH6505AS2		90.0

► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2505AS1	2200	70	100.0	6.5
KBH3505AS1	5700	100	128.5	8.0
KBH4505AS1	9900	120	163.0	10.0
KBH4505AS2	7400	86	163.0	10.0
KBH5505AS1	13700	140	192.0	13.0
KBH6505AS1	22700	170	235.0	14.0
KBH6505AS2	22700	126	235.0	14.0



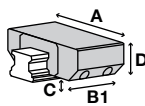
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R16KUGEL

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	R1661, R1665, R1651, R1653, R1631	KBHS3505AS1A		48
45	R1651, R1653	KBHS4505AS1A		60
55	R1651, R1653	KBHS5505AS1A		70
65	R1651, R1653	KBHS6505AS1A		90

▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3505AS1A	7500	100	155	6.0
KBHS4505AS1A	9000	120	180	8.0
KBHS5505AS1A	11500	140	214	10.0
KBHS6505AS1A	16000	170	270	11.0



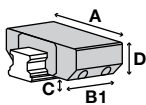
► RAIL TYPE: R16KUGEL

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	R1661, R1665, R1651, R1653, R1631	KWH2505AS1		36.0
25	R1662, R1666, R1622, R1623, R1632	KWH2505AS2		36.0
25	R1621, R1624	KWH2505AS3		40.0
30	R1661, R1665, R1651, R1653, R1631	KWH3005AS1		42.0
30	R1662, R1666, R1622, R1623, R1632	KWH3005AS2		42.0
30	R1621, R1624	KWH3005AS3		45.0
35	R1661, R1665, R1651, R1653, R1631	KWH3505AS1		48.0
35	R1662, R1666, R1622, R1623, R1632	KWH3505AS2		48.0
35	R1621, R1624	KWH3505AS3		55.0
45	R1651, R1653	KWH4505AS1		60.0
45	R1622, R1623	KWH4505AS2		60.0
45	R1621, R1624	KWH4505AS3		70.0
55	R1651, R1653	KWH5505AS1		70.0
55	R1622, R1623	KWH5505AS2		70.0
55	R1621, R1624	KWH5505AS3		80.0
65	R1651, R1653	KWH6505AS1		90.0
65	R1622, R1623	KWH6505AS2		90.0

► Series KWH

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2505AS1	2200	70.0	92.0	6.5
KWH2505AS2	1600	48.0	92.0	6.5
KWH2505AS3	1600	48.0	92.0	6.5
KWH3005AS1	3000	90.0	103.5	7.0
KWH3005AS2	3000	60.0	103.5	7.0
KWH3005AS3	3000	60.0	103.5	7.0
KWH3505AS1	5700	100.0	120.5	8.0
KWH3505AS2	3500	70.0	120.5	8.0
KWH3505AS3	3500	70.0	120.5	8.0
KWH4505AS1	9900	120.0	155.0	10.0
KWH4505AS2	7400	86.0	155.0	10.0
KWH4505AS3	7400	86.0	155.0	10.0
KWH5505AS1	13700	140.0	184.0	13.0
KWH5505AS2	13700	100.0	184.0	13.0
KWH5505AS3	13700	100.0	184.0	13.0
KWH6505AS1	22700	170.0	227.0	14.0
KWH6505AS2	22700	126.0	227.0	14.0



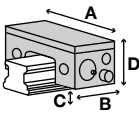
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R16KUGEL

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LBPS1505AS2		24.0
15	R1621	LBPS1505AS2	PLK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LBPS2005AS2		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LBPS2505AS2		36.0
25	R1621, R1624	LBPS2505AS2	PLK25-4	40.0
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LBPS3005AS2		42.0
30	R1662, R1666, R1622, R1623, R1621, R1624	⌚		
30	R1621, R1624	LBPS3005AS2	PLK30-3	45.0
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LBPS3505AS2		48.0
35	R1662, R1666, R1622, R1623, R1621, R1624	⌚		
35	R1621, R1624	LBPS3505AS2	PLK35-7	55.0
45	R1622, R1623, R1621, R1624	⌚		
55	R1622, R1623, R1621, R1624	⌚		

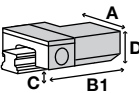
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1505AS2	400	34.0	76.0	3.30
LBPS2005AS2	600	44.0	81.0	5.50
LBPS2505AS2	750	48.0	86.0	7.50
LBPS3005AS2	1200	60.0	109.5	7.00
LBPS3505AS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	LCE1505AS1		24.0
15	R1621	LCE1505AS1	PMK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632, R1631	LCE2005AS1		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	LCE2505AS1		36.0
25	R1621, R1624	LCE2505AS1	PMK25-4	40.0
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1621, R1624	⌚		

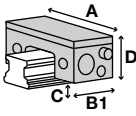
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1505AS1	600	55.0	115.0	4.75
LCE2005AS1	700	62.8	115.0	9.05
LCE2505AS1	1100	75.0	135.0	8.00



► RAIL TYPE: R16KUGEL

Series LKP pneumatic Clamping NO

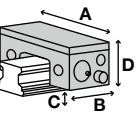
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKP1505AS2		24.0
15	R1621	LKP1505AS2	PLK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKP2005AS2		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKP2505AS2		36.0
25	R1621, R1624	LKP2505AS2	PLK25-4	40.0
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKP3005AS2		42.0
30	R1621, R1624	LKP3005AS2	PLK30-3	45.0
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKP3505AS2		48.0
35	R1621, R1624	LKP3505AS2	PLK35-7	55.0
45	R1622, R1623, R1621, R1624	⌚		
55	R1622, R1623, R1621, R1624	⌚		



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1505AS2	550	34.0	49.00	3.30
LKP2005AS2	850	44.0	52.00	5.50
LKP2505AS2	1100	48.0	57.00	7.50
LKP3005AS2	1800	60.0	66.50	7.00
LKP3505AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKPS1505AS2		24.0
15	R1621	LKPS1505AS2	PLK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKPS2005AS2		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632	LKPS2505AS2		36.0
25	R1621, R1624	LKPS2505AS2	PLK25-4	40.0
45	R1622, R1623, R1621, R1624	⌚		
55	R1622, R1623, R1621, R1624	⌚		



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1505AS2	400	34.0	76.0	3.30
LKPS2005AS2	600	44.0	81.0	5.50
LKPS2505AS2	750	48.0	86.0	7.50

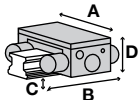
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R16KUGEL

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate *	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MBPS1505AS1		24
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MBPS2005AS1		30
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MBPS2505AS1		36
25	R1621, R1624	MBPS2505AS1	PMB25-4	40
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MBPS3005AS1		42
30	R1621, R1624	MBPS3005AS1	PMB30-3	45
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MBPS3505AS1		48
35	R1621, R1624	MBPS3505AS1	PMB35-7	55
45	R1651, R1653, R1622, R1623	MBPS4505AS1		60
45	R1621, R1624	MBPS4505AS1	PMB45-10	70
55	R1651, R1653, R1622, R1623	MBPS5505AS1		70
55	R1621, R1624	MBPS5505AS1	PMB55-10	80

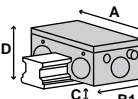
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1505AS1	750	61	94.0	2.5
MBPS2005AS1	750	66	94.0	4.2
MBPS2505AS1	1300	75	95.2	3.5
MBPS3005AS1	2000	90	107.0	3.5
MBPS3505AS1	2600	100	105.7	6.0
MBPS4505AS1	3600	120	113.2	8.0
MBPS5505AS1	4700	140	144.0	11.0



Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MK1505AK		24.0
15	R1621	MK1505AK	PMK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MK2005AK		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MK2505AK		36.0
25	R1621, R1624	MK2505AK	PMK25-4	40.0
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MK3005AK		42.0
30	R1621, R1624	MK3005AK	PMK30-3	45.0
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	MK3505AK		48.0
35	R1621, R1624	MK3505AK	PMK35-7	55.0
45	R1651, R1653, R1622, R1623	MK4505AK		60.0
45	R1621, R1624	MK4505AK	PMK45-10	70.0
55	R1651, R1653, R1622, R1623	MK5505AK		70.0
55	R1621, R1624	MK5505AK	PMK55-10	80.0
65	R1651, R1653, R1622, R1623	MK6505AK		90.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1505AK	650	55.0	39.0	3.2
MK2005AK	1000	66.0	39.0	3.0
MK2505AK	1200	75.0	35.0	3.5
MK3005AK	1750	90.0	39.0	3.5
MK3505AK	2000	100.0	39.0	4.0
MK4505AK	2250	120.0	49.0	8.0
MK5505AK	2250	128.0	49.0	13.0
MK6505AK	2250	138.0	49.0	16.5

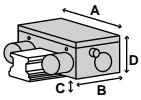


► RAIL TYPE: R16KUGEL

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MKS1505AK		24.0
15	R1621	MKS1505AK	PMK15-4	28.0
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1632, R1631	MKS2005AK		30.0
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MKS2505AK		36.0
25	R1621, R1624	MKS2505AK	PMK25-4	40.0
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MKS3005AK		42.0
30	R1621, R1624	MKS3005AK	PMK30-3	45.0
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	MKS3505AK		48.0
35	R1621, R1624	MKS3505AK	PMK35-7	55.0
45	R1651, R1653, R1622, R1623	MKS4505AK		60.0
45	R1621, R1624	MKS4505AK	PMK45-10	70.0
55	R1651, R1653, R1622, R1623	MKS5505AK		70.0
55	R1621, R1624	MKS5505AK	PMK55-10	80.0
65	R1651, R1653, R1622, R1623	MKS6505AK		90.0

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1505AK	400	55.0	58.0	3.2
MKS2005AK	600	66.0	61.0	3.0
MKS2505AK	750	75.0	56.0	3.5
MKS3005AK	1050	90.0	68.0	3.5
MKS3505AK	1250	100.0	67.0	4.0
MKS4505AK	1450	120.0	82.0	8.0
MKS5505AK	1450	128.0	82.0	13.0
MKS6505AK	1450	138.0	82.0	16.5



- ▶ * Adapter plate and clamping element must be ordered together
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- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

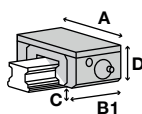
▶ RAIL TYPE: R16KUGEL

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623	☉		
25	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	UBPS2505AS1		36
25	R1621, R1624	UBPS2505AS1	PUB25-4	40
30	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	UBPS3005AS1		42
30	R1621, R1624	UBPS3005AS1	PUB30-3	45
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	UBPS3505AS1		48
35	R1661, R1662, R1665, R1651, R1653, R1666, R1622, R1623, R1631, R1632	UBPS3505AS1L		48
35	R1621, R1624	UBPS3505AS1	PUB35-7	55
35	R1621, R1624	UBPS3505AS1L	PUBL35-7	55
45	R1651, R1653, R1622, R1623	UBPS4505AS1L		60
45	R1621, R1624	UBPS4505AS1L	PUBL45-10	70
55	R1651, R1653, R1622, R1623	UBPS5505AS1L		70
55	R1621, R1624	UBPS5505AS1L	PUBL55-10	80
65	R1651, R1653, R1622, R1623	UBPS6505AS1L		90

▶ Series UBPS

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2505AS1	1500	70	99.0	5.0
UBPS3005AS1	2500	90	109.0	5.0
UBPS3505AS1	2800	100	109.0	6.0
UBPS3505AS1L	3200	100	152.0	6.0
UBPS4505AS1L	5200	120	197.0	8.0
UBPS5505AS1L	7700	140	197.0	10.0
UBPS6505AS1L	7700	170	197.0	11.5

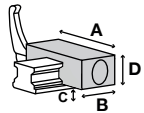


► RAIL TYPE: R16-BREITKUGEL

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
20	R1671, R1672	HK2005KB		27.0
25	R1671, R1672	HK2505KB		35.0
35	R1671	HK3505KB		50.0

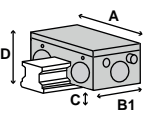
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2005KB	1200	80.0	24.0	4.0
HK2505KB	1200	120.0	39.0	5.0
HK3505KB	2000	145.0	39.0	11.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
20	R1671, R1672	MK2005KB		27.0
25	R1671, R1672	MK2505KB		35.0
35	R1671	MK3505KB		50.0

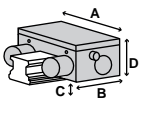
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2005KB	650	80.0	39.0	3.5
MK2505KB	1200	120.0	35.0	2.5
MK3505KB	2000	156.0	39.0	4.5



Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
20	R1671	MKS2005KB		27.0
25	R1671	MKS2505KB		35.0
35	R1671	MKS3505KB		50.0

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2005KB	400	80.0	58.0	3.5
MKS2505KB	750	120.0	56.0	2.5
MKS3505KB	1250	156.0	70.0	4.5



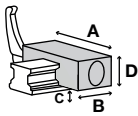
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R18ROLLEN

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	HK2505KR		36.0
25	R1821, R1824	HK2505KR	PHK25-4	40.0
35	R1851, R1853	HK3505KR		48.0
35	R1821, R1824	HK3505KR	PMK35-7	55.0
45	R1851, R1853	HK4505KR		60.0
45	R1821, R1824	HK4505KR	PHK45-10	70.0
55	R1851, R1853	HK5505KR		70.0
55	R1821, R1824	HK5505KR	PHK55-10	80.0
65	R1851, R1853, R1824	HK6505KR		90.0

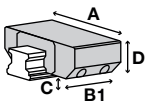
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2505KR	1200	70.0	30.0	7.0
HK3505KR	2000	100.0	39.0	7.0
HK4505KR	2000	120.0	44.0	12.0
HK5505KR	2000	140.0	49.0	19.0
HK6505KR	2000	160.0	64.0	24.0



Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	KBH2505BS1		36.0
25	R1821, R1824	Ⓢ		
35	R1851, R1853	KBH3505BS1		48.0
35	R1821, R1824	KBH3505BS3		55.0
45	R1851, R1853	KBH4505BS1		60.0
45	R1821, R1824	KBH4505BS3		70.0
55	R1851, R1853	KBH5505BS1		70.0
55	R1821, R1824	KBH5505BS3		80.0
55	R1822, R1823	KBH5505BS2		70.0
65	R1853	KBH6505BS1		90.0
65	R1824	KBH6505BS2		
65	R1872	KBH6505BS4		100.0

▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2505BS1	2200	70	100.0	6.5
KBH3505BS1	5700	100	128.5	7.0
KBH3505BS3	3500	70	128.5	7.0
KBH4505BS1	9900	120	163.0	9.0
KBH4505BS3	7400	86	163.0	9.0
KBH5505BS1	13700	140	192.0	12.0
KBH5505BS3	13700	100	192.0	12.0
KBH5505BS2	13700	100	192.0	12.0
KBH6505BS1	22700	170	235.0	14.0
KBH6505BS2	22700	126	235.0	
KBH6505BS4	22700	200	235.0	14.0



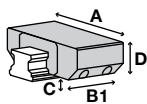
TRACK MANUFACTURER

Rexroth
Bosch Group

► RAIL TYPE: R18ROLLEN

Series KBHS hydraulic Clamping and braking NC

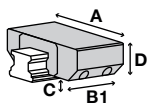
rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	R1851, R1853	KBHS3505BS1A		48
45	R1851, R1853	KBHS4505BS1A		60
55	R1851, R1853	KBHS5505BS1A		70
65	R1853	KBHS6505BS1A		90
100	R1861, R1863	Ⓢ		



► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3505BS1A	7500	100	155	6.0
KBHS4505BS1A	9000	120	180	8.0
KBHS5505BS1A	11500	140	214	10.0
KBHS6505BS1A	16000	170	270	11.0

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	KWH2505BS1		36.0
25	R1821, R1824	KWH2505BS3		40.0
35	R1851, R1853	KWH3505BS1		48.0
35	R1821, R1824	KWH3505BS3		55.0
45	R1851, R1853	KWH4505BS1		60.0
45	R1821, R1824	KWH4505BS3		70.0
55	R1851, R1853	KWH5505BS1		70.0
55	R1821, R1824	KWH5505BS3		80.0
55	R1822, R1823	KWH5505BS2		70.0
55	R1872	KWH5505BS4		80.0
65	R1851, R1853	KWH6505BS1		90.0
65	R1824	KWH6505BS2		90.0
65	R1872	KWH6505BS4		100.0
100	R1861, R1863	KWH10005BS1		120.0
125	R1861, R1863	KWH12505BS1		160.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10005BS1	34000	250	208.0	15.0
KWH12505BS1	46000	320	235.0	25.0
KWH2505BS1	2200	70.0	92.0	6.5
KWH2505BS3	1600	48.0	92.0	6.5
KWH3505BS1	5700	100.0	120.5	7.0
KWH3505BS3	3500	70.0	120.5	7.0
KWH4505BS1	9900	120.0	155.0	9.0
KWH4505BS3	7400	86.0	155.0	9.0
KWH5505BS1	13700	140.0	184.0	12.0
KWH5505BS3	13700	100.0	184.0	12.0
KWH5505BS2	13700	100.0	184.0	12.0
KWH5505BS4	13700	165.0	184.0	12.0
KWH6505BS1	22700	170.0	227.0	14.0
KWH6505BS2	22700	126.0	227.0	14.0
KWH6505BS4	22700	200.0	227.0	14.0

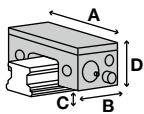
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R18ROLLEN

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate *	D [mm]
25	R1851, R1853, R1822	LBPS2505BS2		36.0
25	R1821, R1824	LBPS2505BS2	PLK25-4	40.0
35	R1851, R1853	LBPS3505BS2		48.0
35	R1821, R1824	LBPS3505BS2	PLK35-7	55.0
45	R1821, R1824	Ⓢ		
55	R1821, R1824	Ⓢ		

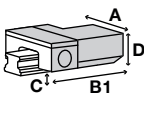
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2505BS2	750	48.0	86.0	7.50
LBPS3505BS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate *	D [mm]
25	R1851, R1853	LCE2505BS1		36.0
25	R1821, R1824	LCE2505BS1	PMK25-4	40.0
35	R1851, R1853, R1821, R1824	Ⓢ		

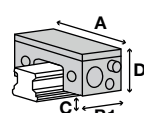
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE2505BS1	1100	75.0	135.0	8.00



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
25	R1851, R1853, R1822	LKP2505BS2		36.0
25	R1821, R1824	LKP2505BS2	PLK25-4	40.0
35	R1851, R1853	LKP3505BS2		48.0
35	R1821, R1824	LKP3505BS2	PLK35-7	55.0
45	R1821, R1824	Ⓢ		
55	R1821, R1824	Ⓢ		

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2505BS2	1100	48.0	57.00	7.50
LKP3505BS2	2500	70.0	68.50	7.50

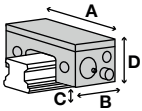


► RAIL TYPE: R18ROLLEN

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853, R1822	LKPS2505BS2		36.0
25	R1821, R1824	LKPS2505BS2	PLK25-4	40.0
45	R1821, R1824	⌚		
55	R1821, R1824	⌚		

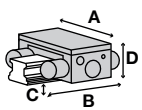
► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS2505BS2	750	48.0	86.0	7.50



Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	MBPS2505BS1		36
25	R1821, R1824	MBPS2505BS1	PMB25-4	40
35	R1851, R1853	MBPS3505BS1		48
35	R1821, R1824	MBPS3505BS1	PMB35-7	55
45	R1851, R1853	MBPS4505BS1		60
45	R1821, R1824	MBPS4505BS1	PMB45-10	70
55	R1851, R1853	MBPS5505BS1		70
55	R1821, R1824	MBPS5505BS1	PMB55-10	80

► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2505BS1	1300	75	95.2	3.5
MBPS3505BS1	2600	100	105.7	6.0
MBPS4505BS1	3600	120	113.2	8.0
MBPS5505BS1	4700	140	144.0	11.0

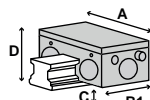


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R18ROLLEN

Series MK pneumatic Clamping NO

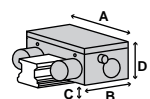
rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	MK2505AR		36.0
25	R1821, R1824	MK2505AR	PMK25-4	40.0
35	R1851, R1853	MK3505AR		48.0
35	R1821, R1824	MK3505AR	PMK35-7	55.0
45	R1851, R1853	MK4505AR		60.0
45	R1821, R1824	MK4505AR	PMK45-10	70.0
55	R1851, R1853	MK5505AR		70.0
55	R1821, R1824	MK5505AR	PMK55-10	80.0
65	R1851, R1853, R1824	MK6505AR		90.0



▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2505AR	1200	75.0	35.0	3.5
MK3505AR	2000	100.0	39.0	4.0
MK4505AR	2250	120.0	49.0	8.0
MK5505AR	2250	128.0	49.0	13.0
MK6505AR	2250	138.0	49.0	16.5

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	MKS2505AR		36.0
25	R1821, R1824	MKS2505AR	PMK25-4	40.0
35	R1851, R1853	MKS3505AR		48.0
35	R1821, R1824	MKS3505AR	PMK35-7	55.0
45	R1851, R1853	MKS4505AR		60.0
45	R1821, R1824	MKS4505AR	PMK45-10	70.0
55	R1851, R1853	MKS5505AR		70.0
55	R1821, R1824	MKS5505AR	PMK55-10	80.0
65	R1851, R1853, R1824	MKS6505AR		90.0



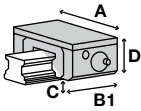
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2505AR	750	75.0	56.0	3.5
MKS3505AR	1250	100.0	67.0	4.0
MKS4505AR	1450	120.0	82.0	8.0
MKS5505AR	1450	128.0	82.0	13.0
MKS6505AR	1450	138.0	82.0	16.5

► RAIL TYPE: R18ROLLEN

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	R1851, R1853	UBPS2505BS1		36
25	R1821, R1824	UBPS2505BS1	PUB25-4	40
35	R1851, R1853	UBPS3505BS1		48
35	R1851, R1853	UBPS3505BS1L		48
35	R1821, R1824	UBPS3505BS1	PUB35-7	55
35	R1821, R1824	UBPS3505BS1L	PUBL35-7	55
45	R1851, R1853	UBPS4505BS1L		60
45	R1821, R1824	UBPS4505BS1L	PUBL45-10	70
55	R1851, R1853	UBPS5505BS1L		70
55	R1821, R1824	UBPS5505BS1L	PUBL55-10	80
65	R1851, R1853, R1824	UBPS6505BS1L		90

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2505BS1	1500	70	99.0	5.0
UBPS3505BS1	2800	100	109.0	6.0
UBPS3505BS1L	3200	100	152.0	6.0
UBPS4505BS1L	5200	120	197.0	8.0
UBPS5505BS1L	7700	140	197.0	10.0
UBPS6505BS1L	7700	170	197.0	11.5



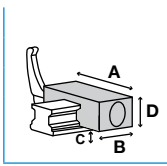
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: R20KUGEL

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate *	D [mm]
15	R2031, R2032, R2041, R2042	HK1505F		24.0
20	R2031, R2032, R2041, R2042	HK2005F		30.0
25	R2031, R2032, R2041, R2042	HK2505F		36.0

▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1505F	130	34.0	20.0	4.2
HK2005F	250	44.0	24.0	6.0
HK2505F	330	48.0	30.0	7.0

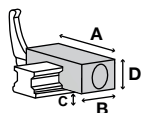


► RAIL TYPE: AR

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	AR-FN, AR-MN, AR-FS, AR-MS	HK1514D		24.0
30	AR-FN, AR-FS, AR-MN, AR-MS, AR-ML	HK3014D		42.0
35	AR-FN, AR-MN, AR-ML	HK3505KR		48.0

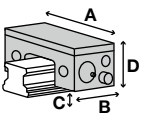
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1514D	1200	47.0	25.0	6.5
HK3014D	2000	90.0	39.0	9.0
HK3505KR	2000	100.0	39.0	7.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
20	AR-FS, AR-FS, AR-FS, AR-FS, AR-FN, AR-FN, AR-FN, AR-FN, AR-MN, AR-MN, AR-MN, AR-MN, AR-MS, AR-MS, AR-MS, AR-MS	⊗		
25	AR-FS, AR-FS, AR-FS, AR-FS, AR-FN, AR-FN, AR-FN, AR-FN, AR-MN, AR-MN, AR-MN, AR-MN, AR-MS, AR-MS, AR-MS, AR-MS	⊗		
30	AR-FN, AR-FS, AR-MN, AR-MS, AR-ML	LBPS3014DS2		42.0

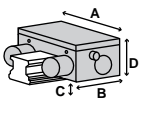
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3014DS2	1200	60.0	109.5	7.00



Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	AR-FN, AR-MN, AR-FS, AR-MS	MKS1514D		24.0
20	AR-FS, AR-FN, AR-MN, AR-MS	MKS2014D		28.0
25	AR-FS, AR-FN, AR-MN, AR-MS	⊗		
30	AR-FN, AR-FS, AR-MN, AR-MS, AR-ML	MKS3005A		42.0
35	AR-FN, AR-MN, AR-ML	MKS3514D		48.0
45	AR-MN, AR-ML	MKS4514D		60.0

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1514D	400	55.0	58.0	3.2
MKS2014D	400	60.0	58.0	3.0
MKS3005A	1050	90.0	68.0	7.0
MKS3514D	1250	100.0	67.0	11.5
MKS4514D	1450	120.0	82.0	8.0



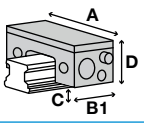
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: AR

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type		▶ Series LKP		
			Order No.	Adapter plate*	D [mm]
20	AR-FS, AR-FN, AR-MN, AR-MS		⊗		
25	AR-FS, AR-FN, AR-MN, AR-MS		⊗		
30	AR-FN, AR-FS, AR-MN, AR-MS, AR-ML		LKP3014DS2		42.0

▶ Series LKP					
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]	
LKP3014DS2	1800	60.0	66.50	7.00	



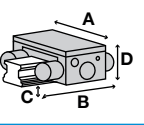
Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type		▶ Series LKPS		
			Order No.	Adapter plate*	D [mm]
20	AR-FS, AR-FS, AR-FS, AR-FS, AR-FN, AR-FN, AR-FN, AR-FN, AR-MN, AR-MN, AR-MN, AR-MN, AR-MS, AR-MS, AR-MS, AR-MS		⊗		
25	AR-FS, AR-FS, AR-FS, AR-FS, AR-FN, AR-FN, AR-FN, AR-FN, AR-MN, AR-MN, AR-MN, AR-MN, AR-MS, AR-MS, AR-MS, AR-MS		⊗		

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type		▶ Series MBPS		
			Order No.	Adapter plate*	D [mm]
15	AR-FN, AR-MN, AR-FS, AR-MS		MBPS1514DS1		24
20	AR-FS, AR-FN, AR-MN, AR-MS		⊗		
35	AR-FN, AR-MN, AR-ML		MBPS3514DS1		48

▶ Series MBPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
MBPS1514DS1	750	61	94.0	2.5	
MBPS3514DS1	2600	100	105.7	6.0	



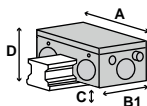
► RAIL TYPE: AR

Series MK pneumatic Clamping NO

CPC
2

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	AR-FN, AR-MN, AR-FS, AR-MS	MK1514D		24.0
20	AR-FS, AR-FN, AR-MN, AR-MS	MK2014D		28.0
25	AR-FS, AR-FN, AR-MN, AR-MS	⊗		
30	AR-FN, AR-FS, AR-MN, AR-MS, AR-ML	MK3005A		42.0
35	AR-FN, AR-MN, AR-ML	MK3514D		48.0
45	AR-MN, AR-ML	MK4514D		60.0

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1514D	650	55.0	39.0	3.2
MK2014D	650	60.0	39.0	3.0
MK3005A	1750	90.0	39.0	7.0
MK3514D	2000	100.0	39.0	11.5
MK4514D	2250	120.0	49.0	8.0



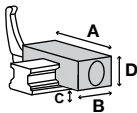
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HR

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	HR-FN	HK1514D		24.0
15	HR-MN	HK1514D	PHK15-4	28.0
20	HR-FL, HR-FN, HR-ML, HR-MN	HK2005KR		30.0
25	HR-ML, HR-MN	HK2505KR	PHK25-4	40.0
25	HR-FL, HR-FN	HK2505KR		36.0
30	HR-FN, HR-FL	HK3014D		42.0
30	HR-MN, HR-ML	HK3014D	PHK30-3	45.0
35	HR-FN, HR-FL	HK3505KR		48.0
35	HR-MN, HR-ML	HK3505KR	PMK35-7	55.0

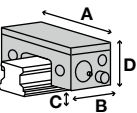
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1514D	1200	47.0	25.0	6.5
HK2005KR	1200	60.0	24.0	7.0
HK2505KR	1200	70.0	30.0	7.0
HK3014D	2000	90.0	39.0	9.0
HK3505KR	2000	100.0	39.0	7.0



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
20	HR-FL, HR-FN, HR-ML, HR-MN	LBPS2014DS2		30.0
25	HR-ML, HR-MN	LBPS2514DS2	PLK25-4	40.0
25	HR-FL, HR-FN, ER-MN, ER-ML	LBPS2514DS2		36.0
30	HR-FN, HR-FL	LBPS3014DS2		42.0
30	HR-MN, HR-ML	LBPS3014DS2	PLK30-3	45.0

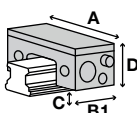
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2014DS2	600	44.0	81.0	5.50
LBPS2514DS2	750	48.0	86.0	7.50
LBPS3014DS2	1200	60.0	109.5	7.00



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
20	HR-FL, HR-FN, HR-ML, HR-MN	LKP2014DS2		30.0
25	HR-ML, HR-MN	LKP2514DS2	PLK25-4	40.0
25	HR-FL, HR-FN, ER-MN, ER-ML	LKP2514DS2		36.0
30	HR-FN, HR-FL	LKP3014DS2		42.0
30	HR-MN, HR-ML	LKP3014DS2	PLK30-3	45.0

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2014DS2	1100	44.0	52.00	5.50
LKP2514DS2	1100	48.0	57.00	7.50
LKP3014DS2	1800	60.0	66.50	7.00

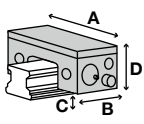


► RAIL TYPE: HR

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
20	HR-FL, HR-FN, HR-ML, HR-MN	LKPS2014DS2		30.0
25	HR-ML, HR-MN	LKPS2514DS2	PLK25-4	40.0
25	HR-FL, HR-FN, ER-MN, ER-ML	LKPS2514DS2		36.0

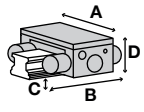
► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS2014DS2	600	44.0	81.0	5.50
LKPS2514DS2	750	48.0	86.0	7.50



Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	HR-FN	MBPS1514DS1		24
15	HR-MN	MBPS1514DS1	PMB15-4	28
20	HR-FL, HR-FN, HR-ML, HR-MN	MBPS2014DS1		30
25	HR-ML, HR-MN	MBPS2514DS1	PMB25-4	40
25	HR-FL, HR-FN	MBPS2514DS1		36
35	HR-FN, HR-FL	MBPS3514DS1		48
35	HR-MN, HR-ML	MBPS3514DS1	PMB35-7	55

► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1514DS1	750	61	94.0	2.5
MBPS2014DS1	750	66	94.0	4.2
MBPS2514DS1	1300	75	95.2	3.5
MBPS3514DS1	2600	100	105.7	6.0



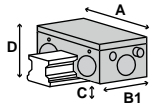
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HR

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	HR-FN	MK1514D		24.0
15	HR-MN	MK1514D	PMK15-4	28.0
20	HR-FL, HR-FN, HR-ML, HR-MN	MK2014D	PMK20-2-01	30.0
25	HR-ML, HR-MN	MK2514D	PMK25-4	40.0
25	HR-FL, HR-FN, ER-MN, ER-ML	MK2514D		36.0
30	HR-FN, HR-FL	MK3005A		42.0
30	HR-MN, HR-ML	MK3005A	PMK30-3	45.0
35	HR-FN, HR-FL	MK3514D		48.0
35	HR-MN, HR-ML	MK3514D	PMK35-7	55.0
45	HR-MN, HR-ML	MK4514D	PMK45-10	70.0
45	HR-FN, HR-FL	MK4514D		60.0

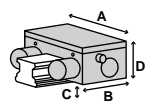
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1514D	650	55.0	39.0	3.2
MK2014D	650	60.0	39.0	3.0
MK2514D	1200	75.0	35.0	8.0
MK3005A	1750	90.0	39.0	7.0
MK3514D	2000	100.0	39.0	11.5
MK4514D	2250	120.0	49.0	8.0



Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	HR-FN	MK1514D		24.0
15	HR-MN	MK1514D	PMK15-4	28.0
20	HR-FL, HR-FN, HR-ML, HR-MN	MK2014D	PMK20-2-01	30.0
25	HR-ML, HR-MN	MK2514D	PMK25-4	40.0
25	HR-FL, HR-FN, ER-MN, ER-ML	MK2514D		36.0
30	HR-FN, HR-FL	MK3005A		42.0
30	HR-MN, HR-ML	MK3005A	PMK30-3	45.0
35	HR-FN, HR-FL	MK3514D		48.0
35	HR-MN, HR-ML	MK3514D	PMK35-7	55.0
45	HR-MN, HR-ML	MK4514D	PMK45-10	70.0
45	HR-FN, HR-FL	MK4514D		60.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1514D	400	55.0	58.0	3.2
MKS2014D	400	60.0	58.0	3.0
MKS2514D	750	75.0	56.0	8.0
MKS3005A	1050	90.0	68.0	7.0
MKS3514D	1250	100.0	67.0	11.5
MKS4514D	1450	120.0	82.0	8.0







Series UBPS pneumatic Clamping and braking NC

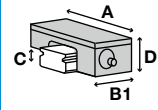
rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	HR-ML, HR-FL, HR-FN, HR-MN			

► RAIL TYPE: MRU-W





Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
5	MR-WL, MR-WN, MR-WLC, MR-WNC			
7	MR-WL, MR-WN			
9	MR-WL, MR-WN	MCP0900MW		12.0
12	MR-WL, MR-WN			
15	MR-WL, MR-WN			

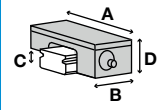
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP0900MW	130	42.3	34.0	2.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
5	MR-WL, MR-WN, MR-WLC, MR-WNC			
7	MR-WL, MR-WN			
9	MR-WL, MR-WN	MCPS0900MW		12.0
12	MR-WL, MR-WN			
15	MR-WL, MR-WN			

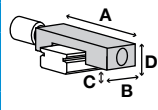
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS0900MW	80	42.3	52.5	2.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	MR-WL, MR-WN, MR-WLC, MR-WNC	HK0500MW		6.5
7	MR-WL, MR-WN	HK0700MW		9.0
9	MR-WL, MR-WN	HK0900MW		12.0
12	MR-WL, MR-WN	HK1200MW		14.0
15	MR-WL, MR-WN	HK1500MW		16.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5
HK0500MW	40	17.0	14.0	2.0
HK0700MW	65	25.0	12.0	3.0
HK0900MW	100	30.0	17.0	4.2



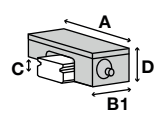
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MRU-M

Series MCP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
5	MR-MN	☞		
7	MR-ML	☞		
9	MR-MN, MR-ML	MCP0901A		10.0
12	MR-MN, MR-ML	MCP1201A		13.0
15	MR-MN, MR-ML	☞		

▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP0901A	130	32.5	34.0	2.15



Series MCPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MCPS		
		Order No.	Adapter plate*	D [mm]
5	MR-MN	☞		
7	MR-ML	☞		
9	MR-MN, MR-ML	MCPS0901A		10.0
12	MR-MN, MR-ML	MCPS1201A		13.0
15	MR-MN, MR-ML	☞		

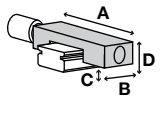
▶ Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS0901A	80	32.5	52.5	2.15



Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	MR-MN, MR-ML	HK0500M		6.0
7	MR-ML, MR-MN	HK0700M		8.0
9	MR-MN, MR-ML	HK0900M		10.0
12	MR-MN, MR-ML	HK1200M		13.0
15	MR-MN, MR-ML	HK1500M		16.0

▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK0500M	40	12.0	14.0	1.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7

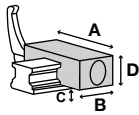


► RAIL TYPE: EG

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	HK1501A	PHK15-3	24.0
20	EGH...SA, EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC	HK2001A		28.0
25	EGH...CA, EGH...SA, EGW...CC, EGW...SC, QEH...CA, QEH...SA, QEW...CC, QEW...SC	HK2501A	PHK25-4	33.0
30	EGW...SC, EGW...CC, QEW...SC, QEW...CC, EGH...SA, EGH...CA, QEH...SA, QEH...CA	HK3001A	PHK30-4	42.0
35	EGW...CC, EGW...SC, EGH...CA, EGH...SA	Ⓢ		

► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	3.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	6.0
HK3001A	2000	90.0	39.0	8.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	EGW...CC, EGW...SC, QEW...CC, QEW...SC	⊗		
35	EGW...CC, EGW...SC	Ⓢ		

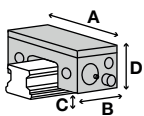
Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	EGW...CC, EGW...SC, QEW...CC, QEW...SC	⊗		
30	EGW...SC, EGW...CC, QEW...SC, QEW...CC	Ⓢ		
35	EGW...CC, EGW...SC	Ⓢ		

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	LBPS1501AS2		24.0
20	EGH...SA, EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC	LBPS2001AS2		28.0
25	EGH...CA, EGH...SA, EGW...CC, EGW...SC, QEH...CA, QEH...SA, QEW...CC, QEW...SC	Ⓢ		
30	EGW...SC, EGW...CC, QEW...SC, QEW...CC, EGH...SA, EGH...CA, QEH...SA, QEH...CA	LBPS3001AS2		42.0
35	QEH...CA, QEH...SA, EGH...CA, EGH...SA	LBPS3501AS2		48.0

► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



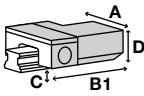
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: EG

Series LCE electrical Clamping bistable

rail size	▶ Carriage type		▶ Series LCE		
	Order No.	Adapter plate*	D [mm]		
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	LCE1501AS1	PMK15-2	24.0	

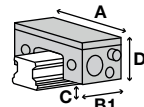
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1501AS1	600	55.0	115.0	2.75



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type		▶ Series LKP		
	Order No.	Adapter plate*	D [mm]		
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	LKP1501AS2	24.0		
20	EGH...SA, EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC	LKP2001AS2	28.0		
25	EGH...CA, EGH...SA, EGW...CC, EGW...SC, QEH...CA, QEH...SA, QEW...CC, QEW...SC	⌚			
30	EGW...SC, EGW...CC, QEW...SC, QEW...CC, EGH...SA, EGH...CA, QEH...SA, QEH...CA	LKP3001AS2	42.0		
35	QEH...CA, QEH...SA, EGH...CA, EGH...SA	LKP3501AS2	48.0		

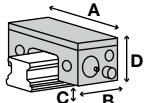
▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50



Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type		▶ Series LKPS		
	Order No.	Adapter plate*	D [mm]		
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	LKPS1501AS2	24.0		
20	EGH...SA, EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC	LKPS2001AS2	28.0		
25	EGH...CA, EGH...SA, EGW...CC, EGW...SC, QEH...CA, QEH...SA, QEW...CC, QEW...SC	⌚			

▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50

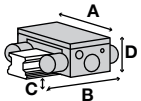


► RAIL TYPE: EG

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	☞		
20	EGH..SA, EGH..CA, EGW..SC, EGW..CC, QEH..SA, QEH..CA, QEW..SC, QEW..CC	☞		
25	EGH..CA, EGH..SA, EGW..CC, EGW..SC, QEH..CA, QEH..SA, QEW..CC, QEW..SC	☒		
30	EGW..SC, EGW..CC, QEW..SC, QEW..CC, EGH..SA, EGH..CA, QEH..SA, QEH..CA	MBPS3004BS1		42
35	EGW..CC, EGW..SC, EGH..CA, EGH..SA	☒		

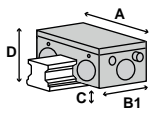
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS3004BS1	1300	90	98.2	7.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	MK1501A		24.0
20	EGH..SA, EGH..CA, EGW..SC, EGW..CC, QEH..SA, QEH..CA, QEW..SC, QEW..CC	MK2001A		28.0
25	EGH..CA, EGH..SA, EGW..CC, EGW..SC, QEH..CA, QEH..SA, QEW..CC, QEW..SC	MK2501A	PMK25-2	33.0
30	EGW..SC, EGW..CC, QEW..SC, QEW..CC, EGH..SA, EGH..CA, QEH..SA, QEH..CA	MK3001A	PMK 30-2	42.0
35	EGW..CC, EGW..SC, EGH..CA, EGH..SA	☞		

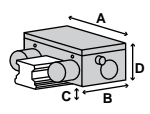
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	5.0



Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	EGH...CA, EGW...SC, EGW...CC, QEH...SA, QEH...CA, QEW...SC, QEW...CC, EGH...SA	MKS1501A		24.0
20	EGH..SA, EGH..CA, EGW..SC, EGW..CC, QEH..SA, QEH..CA, QEW..SC, QEW..CC	MKS2001A		28.0
25	EGH..CA, EGH..SA, EGW..CC, EGW..SC, QEH..CA, QEH..SA, QEW..CC, QEW..SC	MKS2501A	PMK25-2	33.0
30	EGW..SC, EGW..CC, QEW..SC, QEW..CC, EGH..SA, EGH..CA, QEH..SA, QEH..CA	MKS3001A	PMK 30-2	42.0
35	EGW..CC, EGW..SC, EGH..CA, EGH..SA	☞		

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	5.0



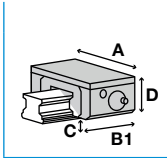
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: EG

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	EGH..SA, EGH..CA, EGW..SC, EGW..CC, QEH..SA, QEH..CA, QEW..SC, QEW..CC	☞		
25	EGH..CA, EGH..SA, EGW..CC, EGW..SC, QEH..CA, QEH..SA, QEW..CC, QEW..SC	☞		
30	EGW..SC, EGW..CC, QEW..SC, QEW..CC, EGH..SA, EGH..CA, QEH..SA, QEH..CA	UBPS3012CS1		42
30	EGW..SC, EGW..CC, QEW..SC, QEW..CC, EGH..SA, EGH..CA, QEH..SA, QEH..CA	☞		
35	EGW..CC, EGW..SC, EGH..CA, EGH..SA	☞		

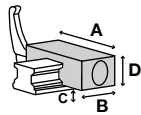
▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3012CS1	1750	90	109.0	5.0



► RAIL TYPE: HG

Series HK manual Clamping bistable

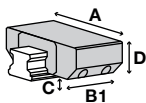
rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	HK1501A		24.0
15	HGH..CA, QHH..CA	HK1501A	PHK15-4	28.0
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	HK2001A	PHK20-1	30.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	HK2501A		36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	HK2501A	PHK25-4	40.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC, HGL..CA, HGL..HA	HK3001A		42.0
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	HK3001A	PHK30-3	45.0
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC, QHW..HA, HGL..CA, HGL..HA	HK3501A	PMK35-3	48.0
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	HK3501A	PMK35-10	55.0
45	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	HK4501A		60.0
45	HGH..CA, HGH..HA, QHH..CA, QHH..HA	HK4501A	PHK45-10	70.0
55	HGL..CA, HGL..HA, HGW..CC, HGW..HC	HK5501A		70.0
55	HGH..CA, HGH..HA	HK5501A	PHK55-10	80.0
65	HGH..CA, HGH..HA, HGW..CC, HGW..HC	HK6501A		90.0



► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	9.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	13.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KBH2512ES1		36.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC	☉		
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	☉		
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KBH3512ES1		48.0
45	HGW..CC, HGW..HC, QHW..CC, QHW..HC	☉		
55	HGW..CC, HGW..HC	☉		
65	HGW..CC, HGW..HC	☉		



► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2512ES1	2200	70	100.0	6.5
KBH3512ES1	5700	100	128.5	8.0

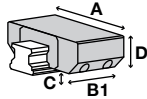
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HG

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KBHS3512ES1A		48
45	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KBHS4512ES1A		60
55	HGW..CC, HGW..HC	Ⓢ		
65	HGW..CC, HGW..HC	Ⓢ		

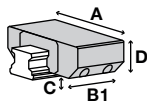
▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3512ES1A	7500	100	155	6.0
KBHS4512ES1A	9000	120	180	8.0



Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KWH2512ES1		36.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KWH3012ES1		42.0
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KWH3512ES1		48.0
45	HGW..CC, HGW..HC, QHW..CC, QHW..HC	KWH4512ES1		60.0
55	HGW..CC, HGW..HC	Ⓢ		
65	HGW..CC, HGW..HC	Ⓢ		

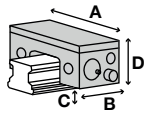
▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2512ES1	2200	70.0	92.0	6.5
KWH3012ES1	3000	90.0	103.5	7.0
KWH3512ES1	5700	100.0	120.5	7.5
KWH4512ES1	9900	120.0	155.0	9.6



► RAIL TYPE: HG

Series LBPS pneumatic Clamping and braking NC

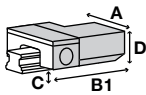
rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	LBPS1501AS2		24.0
15	HGH..CA, QHH..CA	LBPS1501AS2	PLK15-4	28.0
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	LBPS2001AS2	PLK20-2	30.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	LBPS2501AS2		36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LBPS2501AS2	PLK25-4	40.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC	LBPS3001AS2		42.0
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LBPS3001AS2	PLK30-3	45.0
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	LBPS3501AS2		48.0
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LBPS3501AS2	PLK35-7	55.0
45	HGL..CA, HGL..HA, HGH..CA, HGH..HA, QHH..CA, QHH..HA	⌚		
55	HGL..CA, HGL..HA, HGH..CA, HGH..HA	⌚		



► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50

Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA	LCE1501AS1		24.0
15	HGH..CA, QHH..CA	LCE1501AS1	PMK15-4	28.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	LCE2501AS1	PMK25-2	36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LCE2501AS1	PMK25-6	40.0



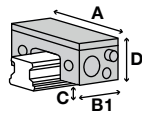
► Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1501AS1	600	55.0	115.0	4.75
LCE2501AS1	1100	75.0	135.0	6.00

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HG

Series LKP pneumatic Clamping NO

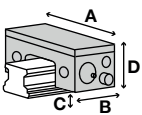
rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	LKP1501AS2		24.0
15	HGH..CA, QHH..CA	LKP1501AS2	PLK15-4	28.0
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	LKP2001AS2	PLK20-2	30.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	LKP2501AS2		36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LKP2501AS2	PLK25-4	40.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC	LKP3001AS2		42.0
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LKP3001AS2	PLK30-3	45.0
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	LKP3501AS2		48.0
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LKP3501AS2	PLK35-7	55.0
45	HGL..CA, HGL..HA, HGH..CA, HGH..HA, QHH..CA, QHH..HA	Ⓢ		
55	HGL..CA, HGL..HA, HGH..CA, HGH..HA	Ⓢ		



▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	LKPS1501AS2		24.0
15	HGH..CA, QHH..CA	LKPS1501AS2	PLK15-4	28.0
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	LKPS2001AS2	PLK20-2	30.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	LKPS2501AS2		36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	LKPS2501AS2	PLK25-4	40.0
45	HGL..CA, HGL..HA, HGH..CA, HGH..HA, QHH..CA, QHH..HA	Ⓢ		
55	HGL..CA, HGL..HA, HGH..CA, HGH..HA	Ⓢ		



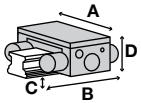
▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	7.50

► RAIL TYPE: HG

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	MBPS1512ES1		24
15	HGH..CA, QHH..CA	MBPS1512ES1	PMB15-4	28
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	MBPS2012ES1		30
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	MBPS2504BS1		36
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MBPS2504BS1	PMB25-4	40
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC, HGL..CA, HGL..HA	MBPS3004BS1		42
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MBPS3004BS1	PMB30-3	45
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC, HGL..CA, HGL..HA	MBPS3512ES1		48
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MBPS3512ES1	PMB35-7	55
45	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	MBPS4504BS1		60
45	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MBPS4504BS1	PMB45-10	70
55	HGL..CA, HGL..HA, HGW..CC, HGW..HC, HGH..CA, HGH..HA			

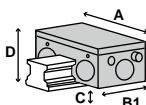
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1512ES1	750	61	94.0	2.5
MBPS2012ES1	750	66	94.0	4.2
MBPS2504BS1	1200	75	94.0	6.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3512ES1	2000	100	106.0	9.5
MBPS4504BS1	2600	120	108.7	15.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	MK1501A		24.0
15	HGH..CA, QHH..CA	MK1501A	PMK15-4	28.0
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	MK2001A		30.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	MK2501A		36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MK2501A	PMK25-4	40.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC	MK3001A		42.0
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MK3001A	PMK30-3	45.0
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	MK3501A		48.0
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MK3501A	PMK35-7	55.0
45	HGW..CC, HGW..HC, QHW..CC, QHW..HC	MK4501A	PMK45-2	60.0
45	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MK4501A	PMK45-12	70.0
55	HGL..CA, HGL..HA, HGW..CC, HGW..HC	MK5501A		70.0
55	HGH..CA, HGH..HA	MK5501A	PMK55-10	80.0
65	HGH..CA, HGH..HA, HGW..CC, HGW..HC	MK6501A		90.0

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	14.5
MK5501A	2250	128.0	49.0	21.5
MK6501A	2250	138.0	49.0	27.0



- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

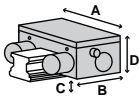
▶ RAIL TYPE: HG

Series MKS pneumatic Clamping NC

rail size	Carriage type	Series MKS		
		Order No.	Adapter plate*	D [mm]
15	HGW..CC, HGL..CA, QHW..CC	MKS1501A		24.0
15	HGH..CA, QHH..CA	MKS1501A	PMK15-4	28.0
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	MKS2001A		30.0
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	MKS2501A		36.0
25	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MKS2501A	PMK25-4	40.0
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC	MKS3001A		42.0
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MKS3001A	PMK30-3	45.0
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC	MKS3501A		48.0
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MKS3501A	PMK35-7	55.0
45	HGW..CC, HGW..HC, QHW..CC, QHW..HC	MKS4501A	PMK45-2	60.0
45	HGH..CA, HGH..HA, QHH..CA, QHH..HA	MKS4501A	PMK45-12	70.0
55	HGL..CA, HGL..HA, HGW..CC, HGW..HC	MKS5501A		70.0
55	HGH..CA, HGH..HA	MKS5501A	PMK55-10	80.0
65	HGH..CA, HGH..HA, HGW..CC, HGW..HC	MKS6501A		90.0

▶ Series MKS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	14.5
MKS5501A	1450	128.0	82.0	21.5
MKS6501A	1450	138.0	82.0	27.0

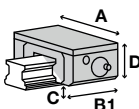


Series UBPS pneumatic Clamping and braking NC

rail size	Carriage type	Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	HGH..CA, HGH..HA, HGW..CC, HGW..HC, QHH..CA, QHH..HA, QHW..CC, QHW..HC	Ⓛ		
25	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC, HGH..CA, HGH..HA, QHH..CA, QHH..HA	Ⓛ		
30	HGW..CC, HGW..HC, QHW..CC, QHW..HC, HGL..CA, HGL..HA	UBPS3012ES1		42
30	HGH..CA, HGH..HA, QHH..CA, QHH..HA	UBPS3012ES1	PUB30-3	45
35	HGW..CC, HGW..HC, QHW..CC, QHW..HC, HGL..CA, HGL..HA	UBPS3512ES1		48
35	HGH..CA, HGH..HA, QHH..CA, QHH..HA	UBPS3512ES1	PUB35-7	55
45	HGL..CA, HGL..HA, HGW..CC, HGW..HC, QHW..CC, QHW..HC	UBPS4512ES1		60
45	HGH..CA, HGH..HA, QHH..CA, QHH..HA	UBPS4512ES1	PUB45-10	70
55	HGW..CC, HGW..HC, HGH..CA, HGH..HA	⊗		
65	HGH..CA, HGH..HA, HGW..CC, HGW..HC	⊗		

▶ Series UBPS

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3012ES1	1750	90	109.0	5.0
UBPS3512ES1	2500	100	109.0	6.0
UBPS4512ES1	3100	120	109.0	8.0

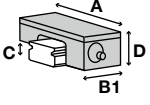


► RAIL TYPE: MG

Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
7	MGN..C, MGN..H			
9	MGN..C, MGN..H			
12	MGN..C, MGN..H	MCP1201A		13.0
15	MGN..C, MGN..H	MCP1504A		16.0

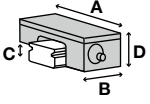
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
7	MGN..C, MGN..H			
9	MGN..C, MGN..H			
12	MGN..C, MGN..H	MCPS1201A		13.0
15	MGN..C, MGN..H	MCPS1504A		16.0

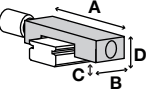
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	MGN..C, MGN..H	HK0700M		8.0
9	MGN..C, MGN..H	HK0900M		10.0
12	MGN..C, MGN..H	HK1200M		13.0
15	MGN..C, MGN..H	HK1500M		16.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7



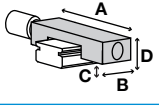
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MG-BREIT

Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	MGW..C, MGW..H	HK0700MW		9.0
9	MGW..C, MGW..H	⊗		
12	MGW..C, MGW..H	HK1200MW		14.0
15	MGW..C, MGW..H	HK1500MW		16.0

▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5
HK0700MW	65	25.0	12.0	3.0

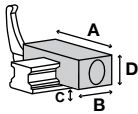


► RAIL TYPE: RG

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA, RGW..CC	☉		
20	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☉		
25	RGW..CC, RGW..HC	HK2501A		36.0
25	RGH..CA, RGH..HA	HK2501A	PHK25-4	40.0
30	RGH..CA, RGH..HA	HK3001A		45.0
30	RGW..CC, RGW..HC	HK3001A		42.0
35	RGH..CA, RGH..HA	HK3501A	PMK35-7	55.0
35	RGW..CC, RGW..HC	HK3501A		48.0
45	RGW..CC, RGW..HC	HK4501A		60.0
45	RGH..CA, RGH..HA	HK4501A	PHK45-10	70.0
55	RGH..CA, RGH..HA	HK5501A	PHK55-10	80.0
55	RGW..CC, RGW..HC	HK5501A		70.0
65	RGH..CA, RGH..HA, RGW..CC, RGW..HC	HK6501A		90.0

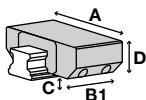
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	15.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	RGW..CC, RGW..HC	☉		
30	RGW..CC, RGW..HC	☉		
35	RGW..CC, RGW..HC	KBH3512FS1		48.0
45	RGW..CC, RGW..HC	KBH4512FS1		60.0
45	RGH..CA, RGH..HA	☉		
45	RGH..CA, RGH..HA	KBH4512FS3	PKW45-2-01	68.0
55	RGW..CC, RGW..HC	KBH5512FS1		70.0
65	RGW..CC, RGW..HC	KBH6512FS1		90.0

► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3512FS1	5700	100	128.5	8.0
KBH4512FS1	9900	120	163.0	10.0
KBH4512FS3	7400	86	163.0	8.0
KBH5512FS1	13700	140	192.0	13.0
KBH6512FS1	22700	170	235.0	14.0



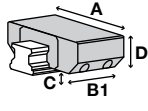
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
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- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RG

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	RGW..CC, RGW..HC	⌚		
45	RGW..CC, RGW..HC	KBHS4512FS1A		60
55	RGW..CC, RGW..HC	KBHS5512FS1A		70
65	RGW..CC, RGW..HC	KBHS6512FS1A		90

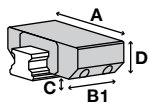
▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS4512FS1A	9000	120	180	8.0
KBHS5512FS1A	11500	140	214	10.0
KBHS6512FS1A	16000	170	270	11.0



Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	RGW..CC, RGW..HC	⌚		
30	RGW..CC, RGW..HC	KWH3012FS1		42.0
35	RGW..CC, RGW..HC	KWH3512FS1		48.0
45	RGW..CC, RGW..HC	KWH4512FS1		60.0
55	RGH..CA, RGH..HA	KWH5512FS3		80.0
55	RGW..CC, RGW..HC	KWH5512FS1		70.0
65	RGW..CC, RGW..HC	KWH6512FS1		90.0

▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH3012FS1	3000	90.0	103.5	7.0
KWH3512FS1	5700	100.0	120.5	8.0
KWH4512FS1	9900	120.0	155.0	8.0
KWH5512FS3	13700	100.0	184.0	9.0
KWH5512FS1	13700	140.0	184.0	13.0
KWH6512FS1	22700	170.0	227.0	14.0

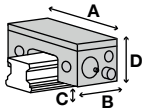


► RAIL TYPE: RG

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA, RGW..CC	☞		
20	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☞		
25	RGW..CC, RGW..HC	LBPS2501AS2		36.0
25	RGH..CA, RGH..HA	LBPS2501AS2	PLK25-4	40.0
30	RGH..CA, RGH..HA	LBPS3012FS2	PLK30-3	45.0
30	RGW..CC, RGW..HC	LBPS3012FS2		42.0
35	RGH..CA, RGH..HA	LBPS3512FS2	PLK35-7	55.0
35	RGW..CC, RGW..HC	LBPS3512FS2		48.0
45	RGH..CA, RGH..HA	☞		
55	RGH..CA, RGH..HA	☞		

► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3012FS2	1200	60.0	109.5	7.00
LBPS3512FS2	1900	70.0	124.5	7.50



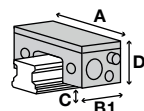
Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA	☞	PMK15-4	
15	RGW..CC	☞		
20	RGH..CA, RGH..HA	☞	PMK20-4	
20	RGW..CC, RGW..HC	☞		
25	RGW..CC, RGW..HC	☞		
25	RGH..CA, RGH..HA	☞	PMK25-4	

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA, RGW..CC	☞		
20	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☞		
25	RGW..CC, RGW..HC	LKP2501AS2		36.0
25	RGH..CA, RGH..HA	LKP2501AS2	PLK25-4	40.0
30	RGH..CA, RGH..HA	LKP3012FS2	PLK30-3	45.0
30	RGW..CC, RGW..HC	LKP3012FS2		42.0
35	RGH..CA, RGH..HA	LKP3512FS2	PLK35-7	55.0
35	RGW..CC, RGW..HC	LKP3512FS2		48.0
45	RGH..CA, RGH..HA	☞		
55	RGH..CA, RGH..HA	☞		

► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2501AS2	1100	48.0	57.00	7.50
LKP3012FS2	1800	60.0	66.50	7.00
LKP3512FS2	2500	70.0	68.50	7.50

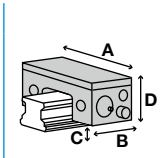


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
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- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RG

Series LKPS pneumatic Clamping NC

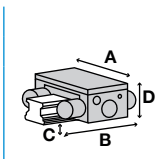
rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA, RGW..CC	☉		
20	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☉		
25	RGW..CC, RGW..HC	LKPS2501AS2		36.0
25	RGH..CA, RGH..HA	LKPS2501AS2	PLK25-4	40.0
45	RGH..CA, RGH..HA	☉		
55	RGH..CA, RGH..HA	☉		



▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS2501AS2	750	48.0	86.0	7.50

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA, RGW..CC	☉		
20	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☉		
25	RGW..CC, RGW..HC, RGH..CA, RGH..HA	☉		
30	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☉		
35	RGH..CA, RGH..HA, RGW..CC, RGW..HC	☉		
45	RGW..CC, RGW..HC	MBPS4512FS1		60
45	RGH..CA, RGH..HA	MBPS4512FS1	PMB45-10	70
55	RGH..CA, RGH..HA	MBPS5501ES1	PMB55-13	80
55	RGW..CC, RGW..HC	MBPS5501ES1	PMB55-3	70

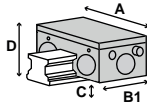


▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS4512FS1	3600	120	113.2	8.0
MBPS5501ES1	4700	140	144.0	8.0

► RAIL TYPE: RG

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	RGH..CA, RGW..CC	⊗		
15	RGH..CA	MK1512F	PMK15-4	28.0
15	RGW..CC	MK1512F		24.0
20	RGH..CA, RGH..HA	MK2012F	PMK20-4	34.0
20	RGW..CC, RGW..HC	MK2012F		30.0
25	RGW..CC, RGW..HC	MK2512F		36.0
25	RGH..CA, RGH..HA	MK2512F	PMK25-4	40.0
30	RGH..CA, RGH..HA	MK3012F	PMK30-3	45.0
30	RGW..CC, RGW..HC	MK3012F		42.0
35	RGH..CA, RGH..HA	MK3512F	PMK35-7	55.0
35	RGW..CC, RGW..HC	MK3512F		48.0
45	RGW..CC, RGW..HC	MK4512F		60.0
45	RGH..CA, RGH..HA	MK4512F	PMK45-10	70.0
55	RGH..CA, RGH..HA	MK5501F	PMK55-16	80.0
55	RGW..CC, RGW..HC	MK5501F	PMK55-6	70.0
65	RGH..CA, RGH..HA, RGW..CC, RGW..HC	MK6512F		90.0



► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1512F	650	55.0	39.0	3.2
MK2012F	1000	66.0	39.0	3.0
MK2512F	1200	75.0	35.0	3.5
MK3012F	1200	90.0	39.0	5.0
MK3512F	2000	100.0	39.0	4.0
MK4512F	2250	120.0	49.0	8.0
MK5501F	2250	128.0	49.0	11.0
MK6512F	2250	138.0	49.0	16.5

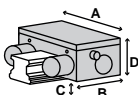
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RG

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
15	RGH..CA, RGW..CC	⊕		
15	RGH..CA	MKS1512F	PMK15-4	28.0
15	RGW..CC	MKS1512F		24.0
20	RGH..CA, RGH..HA	MKS2012F	PMK20-4	34.0
20	RGW..CC, RGW..HC	MKS2012F		30.0
25	RGW..CC, RGW..HC	MKS2512F		36.0
25	RGH..CA, RGH..HA	MKS2512F	PMK25-4	40.0
30	RGH..CA, RGH..HA	MKS3012F	PMK30-3	45.0
30	RGW..CC, RGW..HC	MKS3012F		42.0
35	RGH..CA, RGH..HA	MKS3512F	PMK35-7	55.0
35	RGW..CC, RGW..HC	MKS3512F		48.0
45	RGW..CC, RGW..HC	MKS4512F		60.0
45	RGH..CA, RGH..HA	MKS4512F	PMK45-10	70.0
55	RGH..CA, RGH..HA	MKS5501F	PMK55-16	80.0
55	RGW..CC, RGW..HC	MKS5501F	PMK55-6	70.0
65	RGH..CA, RGH..HA, RGW..CC, RGW..HC	MKS6512F		90.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1512F	400	55.0	58.0	3.2
MKS2012F	600	66.0	61.0	3.0
MKS2512F	750	75.0	56.0	3.5
MKS3012F	750	90.0	60.0	5.0
MKS3512F	1250	100.0	67.0	4.0
MKS4512F	1450	120.0	82.0	8.0
MKS5501F	1450	128.0	82.0	11.0
MKS6512F	1450	138.0	82.0	16.5

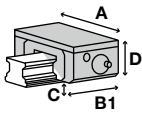


► RAIL TYPE: RG

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	RGH..CA, RGH..HA, RGW..CC, RGW..HC			
25	RGW..CC, RGW..HC	UBPS2512FS1		36
25	RGH..CA, RGH..HA	UBPS2512FS1	PUB25-4	40
30	RGH..CA, RGH..HA	UBPS3012FS1	PUB30-3	45
30	RGW..CC, RGW..HC	UBPS3012FS1		42
35	RGH..CA, RGH..HA	UBPS3512FS1	PUB35-7	55
35	RGH..CA, RGH..HA	UBPS3512FS1L	PUBL35-7	55
35	RGW..CC, RGW..HC	UBPS3512FS1		48
35	RGW..CC, RGW..HC	UBPS3512FS1L		48
45	RGW..CC, RGW..HC	UBPS4512FS1L		60
45	RGH..CA, RGH..HA	UBPS4512FS1L	PUBL45-10	70
55	RGH..CA, RGH..HA	UBPS5512FS1L	PUBL55-10	80
55	RGW..CC, RGW..HC	UBPS5512FS1L		70
65	RGH..CA, RGH..HA, RGW..CC, RGW..HC	UBPS6512FS1L		90

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2512FS1	1500	70	99.0	5.0
UBPS3012FS1	2500	90	109.0	5.0
UBPS3512FS1	2800	100	109.0	6.0
UBPS3512FS1L	3200	100	152.0	6.0
UBPS4512FS1L	5200	120	197.0	8.0
UBPS5512FS1L	7700	140	197.0	10.0
UBPS6512FS1L	7700	170	197.0	11.5



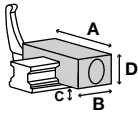
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: WE

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
17	WEH-CA, WEH-CC	HK1701B		17.0
21	WEH-CA, WEH-CC	HK2101B		21.0
27	WEW..CC, WEH..CA	HK2701B		27.0
35	WEW..CC, WEH..CA	HK3501B		35.0

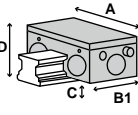
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1701B	1200	60.0	25.0	2.5
HK2101B	1200	77.0	24.0	3.0
HK2701B	1200	80.0	30.0	4.0
HK3501B	2000	135.0	39.0	4.0



Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
27	WEW..CC, WEH..CA	MK2701B		27.0
35	WEW..CC, WEH..CA	MK3501B		35.0

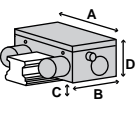
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2701B	1000	88.0	53.0	4.0
MK3501B	1200	121.0	36.0	5.0



Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
27	WEW..CC, WEH..CA	MKS2701B		27.0
35	WEW..CC, WEH..CA	MKS3501B		35.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2701B	600	88.0	65.0	4.0
MKS3501B	750	121.0	57.0	5.0

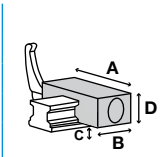


► RAIL TYPE: TS-01

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	TW-01	HK1511A		24.0
20	TW-01	HK2011A		30.0
25	TW-01	HK2511A		36.0
30	TW-01	HK3011A		42.0







► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1511A	250	47.0	23.0	4.0
HK2011A	350	63.0	28.0	6.0
HK2511A	500	70.0	35.0	5.0
HK3011A	800	90.0	38.0	6.5

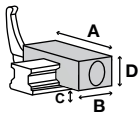


- ▶ *Adapter plate and clamping element must be ordered together
 - ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
 - ▶ Bi-stable = Elements remain in current position
 - ▶ NO = Elements are closed when pressurized
 - ▶ NC = Elements are opened when pressurized
-

► RAIL TYPE: LRX(MX)

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
12	LRX, LRXC, LRXG, LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL			
15	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXS, MXSC, MXSG	HK1510B		24.0
15	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG	HK1510B	PHK15-4/01	28.0
20	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	HK2010B		30.0
20	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	HK2010B	PHK20-4	34.0
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	HK2501A		40.0
25	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	HK2501A		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LRXSC, LRXSG, MXS, MXSC, MXSG, MXSL	HK3001A		42.0
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	HK3001A		45.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	HK3501A		48.0
35	LRXD, LRXDC, LRXDG	HK3501A	PMK35-7	55.0
35	MXN, MXNG, MXNS, MXNSG			
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	HK4501A		60.0
45	LRXD, LRXDC, LRXDG	HK4501A	PHK45-10	70.0
45	MXN, MXNG, MXNS, MXNSG			
55	LRX, LRXC, LRXG, MX, MXC, MXG	HK5501A		70.0
55	LRXD, LRXDC, LRXDG	HK5501A	PHK55-10	80.0
55	MXN, MXNG, MXNS, MXNSG			
65	LRX, LRXC, LRXD, LRXDC, LRXDG, LRXG, MX, MXC, MXG	HK6501A		90.0
85	LRX, LRXG			
100	LRXG			



► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1510B	1200	47.0	29.0	6.5
HK2010B	1200	60.0	24.0	7.0
HK2501A	1200	70.0	30.0	17.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	20.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

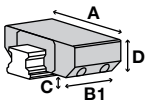
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LRX(MX)

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KBH2510BS1		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KBH3010BS1		42.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KBH3510BS1		48.0
35	LRXD, LRXDC, LXXDG	KBH3510BS3		55.0
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KBH4510BS1		60.0
45	LRXD, LRXDC, LXXDG, MXD, MXDG, MXDL	⊕	PKW45-2-01	
55	LRX, LRXC, LRXG, MX, MXC, MXG	KBH5510BS1		70.0
55	LRXD, LRXDC, LXXDG	KBH5510BS3		80.0
65	LRX, LRXC, LRXG, MX, MXC, MXG	KBH6510BS1		90.0
65	LRXD, LRXDC, LXXDG	KBH6510BS3		90.0
85	LRX, LRXG	⊕		
100	LRXG	⊕		

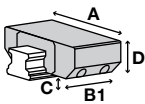
▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2510BS1	2200	70	100.0	6.5
KBH3010BS1	3000	90	111.5	6.5
KBH3510BS1	5700	100	128.5	8.0
KBH3510BS3	5700	70	128.5	6.5
KBH4510BS1	9900	120	163.0	10.0
KBH5510BS1	13700	140	192.0	13.0
KBH5510BS3	13700	100	192.0	9.0
KBH6510BS1	22700	170	235.0	14.0
KBH6510BS3	22700	126	235.0	12.0



Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KBHS3510BS1A		48
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KBHS4510BS1A		60
55	LRX, LRXC, LRXG, MX, MXC, MXG	KBHS5510BS1A		70
65	LRX, LRXC, LRXG, MX, MXC, MXG	KBHS6510BS1A		90

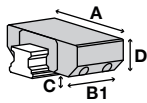
▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3510BS1A	7500	100	155	6.0
KBHS4510BS1A	9000	120	180	8.0
KBHS5510BS1A	11500	140	214	10.0
KBHS6510BS1A	16000	170	270	11.0



► RAIL TYPE: LRX(MX)

Series KWH hydraulic Clamping NO

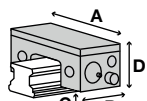
rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KWH2510BS1		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KWH3010BS1		42.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	Ⓢ		
35	MXD, MXDC, MXDG, MXDL, LRXD, LRXDC, LRXDG	KWH3510BS3		55.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KWH3510BS1		48.0
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	KWH4510BS1		60.0
55	LRX, LRXC, LRXG, MX, MXC, MXG	KWH5510BS1		70.0
55	LRXD, LRXDC, LRXDG	KWH5510BS3		80.0
65	LRX, LRXC, LRXG, MX, MXC, MXG	KWH6510BS1		90.0
65	LRXD, LRXDC, LRXDG	KWH6510BS3		90.0
65	LRXD, LRXDC, LRXDG	Ⓢ		
85	LRX, LRXG	Ⓢ		
100	LRXG	Ⓢ		



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2510BS1	2200	70.0	92.0	6.5
KWH3010BS1	3000	90.0	103.5	6.5
KWH3510BS3	5700	70.0	120.5	6.5
KWH3510BS1	5700	100.0	120.5	8.0
KWH4510BS1	9900	120.0	155.0	10.0
KWH5510BS1	13700	140.0	184.0	13.0
KWH5510BS3	13700	100.0	184.0	9.0
KWH6510BS1	22700	170.0	227.0	14.0
KWH6510BS3	22700	126.0	227.0	12.0

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	LRX, LRXC, LRXG, LRXS, LFXSC, LFXSG, MX, MXC, MXG, MXS, MXSC, MXSG	LBPS1501AS2		24.0
15	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG	LBPS1501AS2	PLK15-4	28.0
20	LRX, LRXC, LRXG, LRXS, LFXSC, LFXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL, LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	Ⓢ		
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	LBPS2501AS2	PLK25-4	40.0
25	LRX, LRXC, LRXG, LRXS, LFXSC, LFXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	LBPS2501AS2		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LFXSC, LFXSG, MXS, MXSC, MXSG, MXSL	LBPS3010BS2		42.0
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	LBPS3010BS2	PLK30-3	45.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, MXN, MXNG, MXNS, MXNSG	LBPS3510BS2		48.0
35	LRXD, LRXDC, LRXDG	LBPS3510BS2	PLK35-7	55.0
45	LRXD, LRXDC, LRXDG, MXNS, MXNSG	Ⓢ		
55	LRXD, LRXDC, LRXDG, MXNS, MXNSG	Ⓢ		



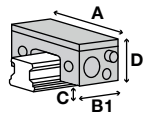
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3010BS2	1200	60.0	109.5	7.00
LBPS3510BS2	1900	70.0	124.5	7.50

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LRX(MX)

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
15	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXS, MXSC, MXSG	LKP1501AS2		24.0
15	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG	LKP1501AS2	PLK15-4	28.0
20	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL, LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	Ⓢ		
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	LKP2501AS2	PLK25-4	40.0
25	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	LKP2501AS2		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LRXSC, LRXSG, MXS, MXSC, MXSG, MXSL	LKP3001AS2		42.0
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	LKP3001AS2	PLK30-3	45.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, MXN, MXNG, MXNS, MXNSG	LKP3510BS2		48.0
35	LRXD, LRXDC, LRXDG	LKP3510BS2	PLK35-7	55.0
45	LRXD, LRXDC, LRXDG, MXNS, MXNSG	Ⓢ		
55	LRXD, LRXDC, LRXDG, MXNS, MXNSG	Ⓢ		

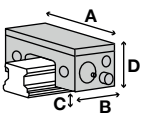


▶ Series LKP

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3510BS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXS, MXSC, MXSG	LKPS1501AS2		24.0
15	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG	LKPS1501AS2	PLK15-4	28.0
20	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL, LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	Ⓢ		
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	LKPS2501AS2	PLK25-4	40.0
25	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	LKPS2501AS2		36.0
45	LRXD, LRXDC, LRXDG, MXNS, MXNSG	Ⓢ		
55	LRXD, LRXDC, LRXDG, MXNS, MXNSG	Ⓢ		



▶ Series LKPS

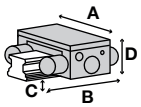
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2501AS2	750	48.0	86.0	7.50

► RAIL TYPE: LRX(MX)

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MBPS2510BS1	PMB25-4	40
25	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	MBPS2510BS1		36
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LRXSC, LRXSG, MXS, MXSC, MXSG, MXSL	MBPS3010BS1		42
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MBPS3010BS1	PMB30-3	45
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	MBPS3510BS1		48
35	LRXD, LRXDC, LRXDG	MBPS3510BS1	PMB35-7	55
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	MBPS4510BS1		60
45	LRXD, LRXDC, LRXDG	MBPS4510BS1	PMB45-10	70
55	LRX, LRXC, LRXG, MX, MXC, MXG	MBPS5510BS1	PMB55-4	70
55	LRXD, LRXDC, LRXDG	MBPS5510BS1	PMB55-14	80

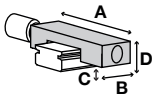
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2510BS1	1300	75	95.2	3.5
MBPS3010BS1	1300	90	98.2	7.0
MBPS3510BS1	2600	100	105.7	6.0
MBPS3510BS1A	2600	100	105.7	6.0
MBPS4510BS1	3600	120	113.2	8.0
MBPS4510BS1A	3600	120	113.2	8.0
MBPS5510BS1	4700	140	144.0	7.0



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
12	LRX	HK1200M	PHM12-2-5	19.0
12	LRXD	HK1200M	PHM12-2-5	20.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	7.0

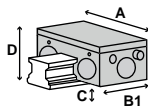


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LRX(MX)

Series MK pneumatic Clamping NO

rail size	Carriage type	Series MK		
		Order No.	Adapter plate*	D [mm]
12	LRX, LRXC, LRXG	MK1201A		19.0
12	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL	MK1201A		20.0
15	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXS, MXSC, MXSG	MK1510B		24.0
15	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG	MK1510B	PMK15-4	28.0
20	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	MK2010B		30.0
20	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MK2010B	PMK20-4	34.0
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MK2501A		40.0
25	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	MK2501A		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LRXSC, LRXSG, MXS, MXSC, MXSG, MXSL	MK3001A		42.0
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MK3001A		45.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, MXN, MXNG, MXNS, MXNSG	MK3501A		48.0
35	LRXD, LRXDC, LRXDG	MK3501A	PMK35-7	55.0
35	MXN, MXNG, MXNS, MXNSG	⌚		
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	MK4501A		60.0
45	LRXD, LRXDC, LRXDG	MK4501A	PMK45-10	70.0
45	MXN, MXNG, MXNS, MXNSG	⌚		
55	LRX, LRXC, LRXG, MX, MXC, MXG	MK5501A		70.0
55	LRXD, LRXDC, LRXDG	MK5501A	PMK55-10	80.0
55	MXN, MXNG, MXNS, MXNSG	⌚		
65	LRX, LRXC, LRXD, LRXDC, LRXDG, LRXG, MX, MXC, MXG	MK6505AK		90.0
85	LRX, LRXG	⌚		
100	LRXG	⌚		



▶ Series MK

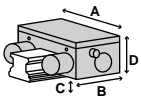
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1201A	350	48.6	50.0	3.0
MK1510B	650	55.0	39.0	3.2
MK2010B	1000	66.0	39.0	3.0
MK2501A	1200	75.0	35.0	12.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5
MK5501A	2250	128.0	49.0	21.5
MK6505AK	2250	138.0	49.0	16.5

► RAIL TYPE: LRX(MX)

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
12	LRX, LRXC, LRXG	MKS1201A		19.0
12	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL	MKS1201A		20.0
15	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXS, MXSC, MXSG	MKS1510B		24.0
15	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG	MKS1510B	PMK15-4	28.0
20	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	MKS2010B		30.0
20	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MKS2010B	PMK20-4	34.0
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MKS2501A		40.0
25	LRX, LRXC, LRXG, LRXS, LRXSC, LRXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	MKS2501A		36.0
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LRXSC, LRXSG, MXS, MXSC, MXSG, MXSL	MKS3001A		42.0
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LRXDG, LRXDG..SL, MXD, MXDC, MXDG, MXDL	MKS3001A		45.0
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, MXN, MXNG, MXNS, MXNSG	MKS3501A		48.0
35	LRXD, LRXDC, LRXDG	MKS3501A	PMK35-7	55.0
35	MXN, MXNG, MXNS, MXNSG	Ⓢ		
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	MKS4501A		60.0
45	LRXD, LRXDC, LRXDG	MKS4501A	PMK45-10	70.0
45	MXN, MXNG, MXNS, MXNSG	Ⓢ		
55	LRX, LRXC, LRXG, MX, MXC, MXG	MKS5501A		70.0
55	LRXD, LRXDC, LRXDG	MKS5501A	PMK55-10	80.0
55	MXN, MXNG, MXNS, MXNSG	Ⓢ		
65	LRX, LRXC, LRXD, LRXDC, LRXDG, LRXG, MX, MXC, MXG	MKS6505AK		90.0
85	LRX, LRXG	Ⓢ		
100	LRXG	Ⓢ		

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1201A	250	48.6	63.0	3.0
MKS1510B	400	55.0	58.0	3.2
MKS2010B	600	66.0	61.0	3.0
MKS2501A	750	75.0	56.0	12.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501A	1450	128.0	82.0	21.5
MKS6505AK	1450	138.0	82.0	16.5



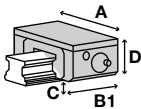
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LRX(MX)

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	LRX, LRXC, LRXG, LRXS, LXXSC, LXXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL, LXXD, LXXD..SL, LXXDC, LXXDC..SL, LXXDG, LXXDG..SL, MXD, MXDC, MXDG, MXDL	Ⓢ		
25	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LXXDG, LXXDG..SL, MXD, MXDC, MXDG, MXDL	UBPS2510BS1	PUB25-4	40
25	LRX, LRXC, LRXG, LRXS, LXXSC, LXXSG, MX, MXC, MXG, MXL, MXS, MXSC, MXSG, MXSL	UBPS2510BS1		36
30	LRX, LRXC, LRXG, MX, MXC, MXG, MXL, LRXS, LXXSC, LXXSG, MXS, MXSC, MXSG, MXSL	UBPS3010BS1		42
30	LRXD, LRXD..SL, LRXDC, LRXDC..SL, LXXDG, LXXDG..SL, MXD, MXDC, MXDG, MXDL	UBPS3010BS1	PUB30-3	45
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	UBPS3510BS1		48
35	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	UBPS3510BS1L		48
35	LRXD, LRXDC, LXXDG	UBPS3510BS1	PUB35-7	55
35	LRXD, LRXDC, LXXDG	UBPS3510BS1L	PUBL35-7	55
45	LRX, LRXC, LRXG, MX, MXC, MXG, MXL	UBPS4510BS1L		60
45	LRXD, LRXDC, LXXDG	UBPS4510BS1L	PUBL45-10	70
55	LRX, LRXC, LRXG, MX, MXC, MXG	UBPS5510BS1L		70
55	LRXD, LRXDC, LXXDG	UBPS5510BS1L	PUBL55-10	80
65	LRX, LRXC, LRXD, LRXDC, LXXDG, LRXG, MX, MXC, MXG	UBPS6510BS1L		90

▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2510BS1	1500	70	99.0	5.0
UBPS3010BS1	2500	90	109.0	5.0
UBPS3510BS1	2800	100	109.0	6.0
UBPS3510BS1L	3200	100	152.0	6.0
UBPS4510BS1L	5200	120	197.0	8.0
UBPS5510BS1L	5200	140	197.0	10.0
UBPS6510BS1L	7700	170	197.0	11.5

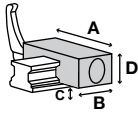


► RAIL TYPE: LWE

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	HK1501A		24.0
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	HK2001A		28.0
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	HK2501A		33.0
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL, LWES..Q, LWESC, LWESC..SL, LWES, LWES..SL, LWESG, LWESG..SL	HK3001A		42.0
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC, LWES, LWES..Q, LWESC	HK3501A		48.0
45	LWE, LWES, LWET	HK4501A		60.0

► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	☉		
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	☉		
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC	☉		
45	LWE, LWET	☉		

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC	☉		
45	LWE, LWET	☉		

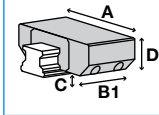
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWE

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	KWH2510DS1		33.0
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	Ⓢ		
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC	Ⓢ		
45	LWE, LWET	Ⓢ		

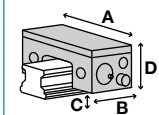
▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2510DS1	2200	70.0	92.0	3.5



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LBPS1501AS2		24.0
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LBPS2001AS2		28.0
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LBPS2501AS2		33.0
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL, LWES..Q, LWESC, LWESC..SL, LWES, LWES..SL, LWESG, LWESG..SL	LBPS3001AS2		42.0
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC, LWES, LWES..Q, LWESC	LBPS3501AS2		48.0
45	LWES	Ⓢ		

▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



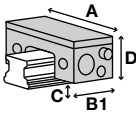
► RAIL TYPE: LWE

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LKP1501AS2		24.0
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LKP2001AS2		28.0
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LKP2501AS2		33.0
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL, LWES..Q, LWESC, LWESC..SL, LWES, LWES..SL, LWESG, LWESG..SL	LKP3001AS2		42.0
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC, LWES, LWES..Q, LWESC	LKP3501AS2		48.0
45	LWES			

5

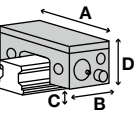
IKO



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LKPS1501AS2		24.0
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LKPS2001AS2		28.0
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	LKPS2501AS2		33.0
45	LWES			



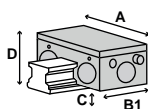
► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWE

Series MK pneumatic Clamping NO

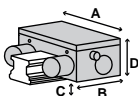
rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	MK1501A		24.0
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	MK2001A		28.0
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	MK2501A		33.0
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL, LWES..Q, LWESC, LWESC..SL, LWES, LWES..SL, LWESG, LWESG..SL	MK3001A		42.0
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC, LWES, LWES..Q, LWESC	MK3501A		48.0
45	LWE, LWES, LWET	MK4501A		60.0



▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5

Series MKS pneumatic Clamping NC



rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	MKS1501A		24.0
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	MKS2001A		28.0
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL	MKS2501A		33.0
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL, LWES..Q, LWESC, LWESC..SL, LWES, LWES..SL, LWESG, LWESG..SL	MKS3001A		42.0
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC, LWES, LWES..Q, LWESC	MKS3501A		48.0
45	LWE, LWES, LWET	MKS4501A		60.0



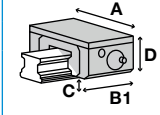
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5

► RAIL TYPE: LWE

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL			
25	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWES, LWES..Q, LWES..SL, LWESC, LWESC..SL, LWESG, LWESG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL			
30	LWE, LWE..Q, LWE..SL, LWEC, LWEC..SL, LWEG, LWEG..SL, LWET, LWET..Q, LWET..SL, LWETC, LWETC..SL, LWETG, LWETG..SL, LWES..Q, LWESC, LWESC..SL, LWES, LWES..SL, LWESG, LWESG..SL		UBPS3010DS1	42
35	LWE, LWE..Q, LWEC, LWET, LWET..Q, LWETC, LWES, LWES..Q, LWESC		UBPS3510DS1	48
45	LWE, LWES, LWET		UBPS4510DS1	60

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3010DS1	1750	90	109.0	5.0
UBPS3510DS1	2500	100	109.0	6.0
UBPS4510DS1	3100	120	109.0	8.0

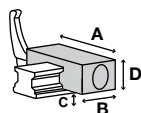


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWH

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
12	LWHD, LWHD..SL, LWHDC..SL, LWHDG..SL, LWHT, LWHT..SL	☉		
15	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	HK1501A		24.0
15	LWHD..B, LWHD..M, LWHY	HK1501A	PHK15-4	28.0
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHTG, LWHTG, LWHTG	HK2001A		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHTG, LWHTG	HK2501A	PHK25-4	40.0
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	HK2501A		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHSG	HK3001A		42.0
30	LWHD..B, LWHD..M, LWHDG, LWHTG, LWHTG	HK3001A	PHK30-3	45.0
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	HK3501A		48.0
35	LWHD..B, LWHD..M, LWHDG, LWHTG, LWHTG	HK3501A	PMK35-7	55.0
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	HK4501A		60.0
45	LWHD..B, LWHD..M, LWHDG, LWHTG, LWHTG	HK4501A	PHK45-10	70.0
55	LWH..B, LWHG, LWHT..B, LWHTG	HK5501A		70.0
55	LWHD..B, LWHDG, LWHTG, LWHTG	HK5501A	PHK55-10	80.0
65	LWH..B, LWHD..B, LWHDG, LWHG, LWHT..B, LWHTG, LWHTG	HK6501A		90.0
85	LWHG, LWHTG	☉		

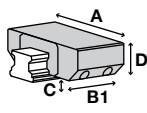


▶ Series HK

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	☉		
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	☉		
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	KBH3510AS1		48.0
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	KBH4510AS1		60.0
55	LWH..B, LWHG, LWHT..B, LWHTG	KBH5510AS1		70.0
55	LWH..B, LWHG, LWHT..B, LWHTG	☉		
65	LWH..B, LWHG, LWHT..B, LWHTG	KBH6510AS1		90.0
65	LWH..B, LWHG, LWHT..B, LWHTG	☉		
85	LWHG, LWHTG	☉		







▶ Series KBH


Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3510AS1	5700	100	128.5	8.0
KBH4510AS1	9900	120	163.0	10.0
KBH5510AS1	13700	140	192.0	13.0
KBH6510AS1	22700	170	235.0	14.0

► RAIL TYPE: LWH

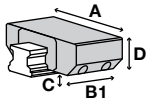
Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG			
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG			
55	LWH..B, LWHG, LWHT..B, LWHTG			
65	LWH..B, LWHG, LWHT..B, LWHTG			

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	KWH2510AS1		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	KWH3010AS1		42.0
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	KWH3510AS1		48.0
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	KWH4510AS1		60.0
55	LWH..B, LWHG, LWHT..B, LWHTG	KWH5510AS1		70.0
65	LWH..B, LWHG, LWHT..B, LWHTG	KWH6510AS1		90.0
85	LWHG, LWHTG			

► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2510AS1	2200	70.0	92.0	6.5
KWH3010AS1	3000	90.0	103.5	7.0
KWH3510AS1	5700	100.0	120.5	8.0
KWH4510AS1	9900	120.0	155.0	10.0
KWH5510AS1	13700	140.0	184.0	13.0
KWH6510AS1	22700	170.0	227.0	14.0



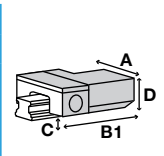
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWH

Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate *	D [mm]
12	LWHD, LWHD..SL, LWHDC..SL, LWHDG..SL, LWHT, LWHT..SL	☉		
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL, LWHD..B, LWHD..M, LWHY	☉		
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	☉		
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	LCE2001AS1		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHY	LCE2501AS1	PMK25-4	40.0
25	LWHD..B, LWHD..M, LWHDG, LWHY, LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	☉		
25	LWH..B, LWH..M	LCE2501AS1	PMK25-4	36.0
25	LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	LCE2501AS1		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHD..B, LWHD..M, LWHDG, LWHY	☉		
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG, LWHD..B, LWHD..M, LWHDG, LWHY	☉		
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG, LWHD..B, LWHD..M, LWHDG, LWHY	☉		
55	LWH..B, LWHG, LWHT..B, LWHTG, LWHD..B, LWHDG, LWHY	☉		
65	LWH..B, LWHD..B, LWHDG, LWHG, LWHT..B, LWHTG, LWHY	☉		
85	LWHG, LWHTG	☉		

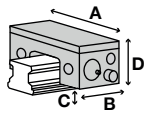
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE2001AS1	700	62.8	115.0	9.05
LCE2501AS1	1100	75.0	135.0	8.00



► RAIL TYPE: LWH

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	LBPS1501AS2		24.0
15	LWHD..B, LWHD..M, LWHY	LBPS1501AS2	PLK15-4	28.0
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHS..G, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	LBPS2001AS2		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHY	LBPS2501AS2	PLK25-4	40.0
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHS..G, LWHT..B, LWHT..M, LWHT..SL, LWHTG	LBPS2501AS2		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHS..G	LBPS3001AS2		42.0
30	LWHD..B, LWHD..M, LWHDG, LWHY	LBPS3001AS2	PLK30-3	45.0
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	LBPS3501AS2		48.0
35	LWHD..B, LWHD..M, LWHDG, LWHY	LBPS3501AS2	PLK35-7	55.0
45	LWHD..B, LWHD..M, LWHDG, LWHY	Ⓢ		
55	LWHD..B, LWHDG, LWHY	Ⓢ		

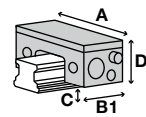


► Series LBPS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	5.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	LKP1501AS2		24.0
15	LWHD..B, LWHD..M, LWHY	LKP1501AS2	PLK15-4	28.0
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHS..G, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	LKP2001AS2		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHY	LKP2501AS2	PLK25-4	40.0
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHS..G, LWHT..B, LWHT..M, LWHT..SL, LWHTG	LKP2501AS2		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHS..G	LKP3001AS2		42.0
30	LWHD..B, LWHD..M, LWHDG, LWHY	LKP3001AS2	PLK30-3	45.0
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	LKP3501AS2		48.0
35	LWHD..B, LWHD..M, LWHDG, LWHY	LKP3501AS2	PLK35-7	55.0
45	LWHD..B, LWHD..M, LWHDG, LWHY	Ⓢ		
55	LWHD..B, LWHDG, LWHY	Ⓢ		



► Series LKP

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

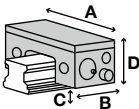
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWH

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate *	D [mm]
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	LKPS1501AS2		24.0
15	LWHD..B, LWHD..M, LWHY	LKPS1501AS2	PLK15-4	28.0
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	LKPS2001AS2		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHY	LKPS2501AS2	PLK25-4	40.0
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	LKPS2501AS2		36.0
45	LWHD..B, LWHD..M, LWHDG, LWHY	⌚		
55	LWHD..B, LWHDG, LWHY	⌚		

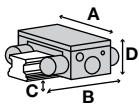
▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	5.50
LKPS2501AS2	750	48.0	86.0	7.50



Series MBPS pneumatic Clamping and braking NC


rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate *	D [mm]
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	MBPS1504BS1		24
15	LWHD..B, LWHD..M, LWHY	MBPS1504BS1	PMB15-4	28
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	MBPS2004BS1-01		30
25	LWHD..B, LWHD..M, LWHDG, LWHY	MBPS2510AS1	PMB25-5	40
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	MBPS2510AS1	PMB25-1	36
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHD..B, LWHD..M, LWHDG, LWHY	⌚		
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG, LWHD..B, LWHD..M, LWHDG, LWHY	⌚		
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	MBPS3504BS1		48
35	LWHD..B, LWHD..M, LWHDG, LWHY	MBPS3504BS1	PMB35-7	55
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG, LWHD..B, LWHD..M, LWHDG, LWHY	⌚		
55	LWH..B, LWHG, LWHT..B, LWHTG	MBPS5504BS1		70
55	LWHD..B, LWHDG, LWHY	MBPS5504BS1	PMK65-10	80

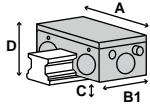
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1504BS1	750	61	94.0	2.5
MBPS2004BS1-01	750	66	94.0	4.2
MBPS2510AS1	1200	75	94.0	5.5
MBPS3504BS1	2000	100	106.0	9.5
MBPS5504BS1	3600	140	113.2	13.0



► RAIL TYPE: LWH

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
12	LWHD, LWHD..SL, LWHDC..SL, LWHDG..SL	MK1201A		20.0
12	LWHT, LWHT..SL	MK1201A		19.0
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	MK1501A		24.0
15	LWHD..B, LWHD..M, LWHY	MK1501A	PMK15-4	28.0
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	MK2001A		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHY	MK2501A	PMK25-4	40.0
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	MK2501A		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHSG	MK3001A		42.0
30	LWHD..B, LWHD..M, LWHDG, LWHY	MK3001A	PMK30-3	45.0
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	MK3501A		48.0
35	LWHD..B, LWHD..M, LWHDG, LWHY	MK3501A	PMK35-7	55.0
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	MK4501A	PMK45-2	60.0
45	LWHD..B, LWHD..M, LWHDG, LWHY	MK4501A	PMK45-12	70.0
55	LWH..B, LWHG, LWHT..B, LWHTG	MK5501A		70.0
55	LWHD..B, LWHDG, LWHY	MK5501A	PMK55-10	80.0
65	LWH..B, LWHD..B, LWHDG, LWHG, LWHT..B, LWHTG, LWHY	MK6501A		90.0
85	LWHG, LWHTG			




► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1201A	350	48.6	50.0	4.0
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	14.5
MK5501A	2250	128.0	49.0	21.5
MK6501A	2250	138.0	49.0	27.0

- ▶ * Adapter plate and clamping element must be ordered together
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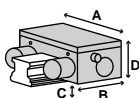
▶ RAIL TYPE: LWH

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
12	LWHD, LWHD..SL, LWHDC..SL, LWHDG..SL	MKS1201A		20.0
12	LWHT, LWHT..SL	MKS1201A		19.0
15	LWH..B, LWH..M, LWH..SL, LWHS..B, LWHS..M, LWHS..SL, LWHT..B, LWHT..M, LWHT..SL	MKS1501A		24.0
15	LWHD..B, LWHD..M, LWHY	MKS1501A	PMK15-4	28.0
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	MKS2001A		30.0
25	LWHD..B, LWHD..M, LWHDG, LWHY	MKS2501A	PMK25-4	40.0
25	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	MKS2501A		36.0
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHSG	MKS3001A		42.0
30	LWHD..B, LWHD..M, LWHDG, LWHY	MKS3001A	PMK30-3	45.0
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	MKS3501A		48.0
35	LWHD..B, LWHD..M, LWHDG, LWHY	MKS3501A	PMK35-7	55.0
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	MKS4501A	PMK45-2	60.0
45	LWHD..B, LWHD..M, LWHDG, LWHY	MKS4501A	PMK45-12	70.0
55	LWH..B, LWHG, LWHT..B, LWHTG	MKS5501A		70.0
55	LWHD..B, LWHDG, LWHY	MKS5501A	PMK55-10	80.0
65	LWH..B, LWHD..B, LWHDG, LWHG, LWHT..B, LWHTG, LWHY	MKS6501A		90.0
85	LWHG, LWHTG			

▶ Series MKS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1201A	250	48.6	63.0	4.0
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	14.5
MKS5501A	1450	128.0	82.0	21.5
MKS6501A	1450	138.0	82.0	27.0



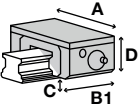
► RAIL TYPE: LWH

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHY	☉		
25	LWHD..B, LWHD..M, LWHDG, LWHY, LWH..B, LWH..M, LWH..SL, LWHG, LWHS..B, LWHS..M, LWHS..SL, LWHSG, LWHT..B, LWHT..M, LWHT..SL, LWHTG	☉		
30	LWH..B, LWH..M, LWH..SL, LWHG, LWHT..B, LWHT..M, LWHT..SL, LWHTG, LWHS..B, LWHS..M, LWHS..SL, LWHSG	UBPS3010AS1		42
30	LWHD..B, LWHD..M, LWHDG, LWHY	UBPS3010AS1	PUB30-3	45
35	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	UBPS3510AS1		48
35	LWHD..B, LWHD..M, LWHDG, LWHY	UBPS3510AS1	PUB35-7	55
45	LWH..B, LWH..M, LWHG, LWHT..B, LWHT..M, LWHTG	UBPS4510AS1		60
45	LWHD..B, LWHD..M, LWHDG, LWHY	UBPS4510AS1	PUB45-10	70
55	LWH..B, LWHG, LWHT..B, LWHTG	UBPS5510AS1L		70
55	LWHD..B, LWHDG, LWHY	UBPS5510AS1L	PUBL55-10	80
65	LWH..B, LWHD..B, LWHDG, LWHG, LWHT..B, LWHTG, LWHY	UBPS6510AS1L		90

► Series UBPS

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3010AS1	1750	90	109.0	5.0
UBPS3510AS1	2500	100	109.0	6.0
UBPS4510AS1	3100	120	109.0	8.0
UBPS5510AS1L	5200	140	197.0	10.0
UBPS6510AS1L	7700	170	197.0	11.5

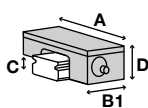


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
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- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWL

Series MCP pneumatic Clamping NO

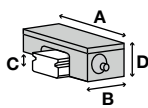
rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
5	LWL..B, LWL..N, LWLC..B, LWLC..N	☉		
7	LWL..B, LWL..N, LWLC..B, LWLC..N, LWLG..B, LWLG..N	☉		
9	LWL..B, LWL..BCS, LWL..N, LWLC..B, LWLC..N, LWLG..B, LWLG..N	☉		
12	LWL..B, LWL..BCS, LWL..CS, LWLC..B, LWLG..B	MCP1201A		13.0
15	LWL..B, LWL..BCS, LWL..CS, LWLC..B, LWLG..B	MCP1504A		16.0
20	LWL..B, LWL..BCS, LWLC..B, LWLG..B	MCP2001A		20.0
25	LWL..B, LWL..BCS, LWLC..B, LWLG..B	MCP2501H		25.0
25	LWL..B, LWLG..B	☉		



▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95
MCP2001A	550	48.7	41.0	2.45
MCP2501H	550	54.4	41.0	5.05

Series MCPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MCPS		
		Order No.	Adapter plate*	D [mm]
5	LWL..B, LWL..N, LWLC..B, LWLC..N	☉		
7	LWL..B, LWL..N, LWLC..B, LWLC..N, LWLG..B, LWLG..N	☉		
9	LWL..B, LWL..BCS, LWL..N, LWLC..B, LWLC..N, LWLG..B, LWLG..N	☉		
12	LWL..B, LWL..BCS, LWL..CS, LWLC..B, LWLG..B	MCPS1201A		13.0
15	LWL..B, LWL..BCS, LWL..CS, LWLC..B, LWLG..B	MCPS1504A		16.0
20	LWL..B, LWL..BCS, LWLC..B, LWLG..B	MCPS2001A		20.0
25	LWL..B, LWL..BCS, LWLC..B, LWLG..B	MCPS2501H		25.0
25	LWL..B, LWLG..B	☉		



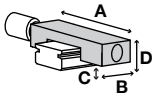
▶ Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95
MCPS2001A	400	48.7	60.0	2.45
MCPS2501H	400	54.4	60.0	5.05

► RAIL TYPE: LWL

Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	LWL..B, LWL..N, LWLC..B, LWLC..N	HK0500M		6.0
7	LWL..B, LWL..N, LWLC..B, LWLC..N, LWLG..B, LWLG..N	HK0700M		8.0
9	LWL..B, LWL..BCS, LWL..N, LWLC..B, LWLC..N, LWLG..B, LWLG..N	HK0900M		10.0
12	LWL..B, LWL..BCS, LWL..CS, LWLC..B, LWLG..B	HK1200M		13.0
15	LWL..B, LWL..BCS, LWL..CS, LWLC..B, LWLG..B	HK1500M		16.0
20	LWL..B, LWL..BCS, LWLC..B, LWLG..B	HK2000M		20.0
25	LWL..B, LWLC..B, LWLG..B	HK2500M		25.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK2000M	220	46.0	26.0	5.0
HK2500M	300	48.0	35.0	5.0
HK0500M	40	12.0	14.0	1.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7



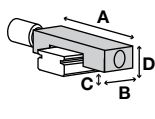
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
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- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LWLF

Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate *	D [mm]
10	LWLF..B, LWLF..N, LWLFC..B, LWLFC..N	HK0500MW		6.5
14	LWLF..B, LWLF..N, LWLFC..B, LWLFC..N	HK0700MW		9.0
18	LWLF..B, LWLF..BCS, LWLF..CS, LWLF..N, LWLFC..B, LWLFC..N, LWLFG..B, LWLFG..N	HK0900MW		12.0
24	LWLF..B, LWLF..BCS, LWLF..CS, LWLFC..B, LWLFG..B	HK1200MW		14.0
42	LWLF..B, LWLF..BCS, LWLF..CS, LWLFC..B, LWLFG..B	HK1500MW		16.0

▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK0500MW	40	17.0	14.0	2.0
HK0700MW	65	25.0	12.0	3.0
HK0900MW	100	30.0	17.0	4.2
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5

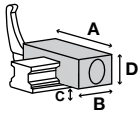


► RAIL TYPE: ME

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	HK1501A		24.0
15	MHD	HK1501A	PHK15-4	28.0
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	HK2001A		28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	HK2001A	PHK20-2	30.0
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	HK2501A		33.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	HK2501A	PHK25-4	36.0
25	MHD, MHDG	HK2501A	PHK25-8	40.0
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MHS, MHSG	HK3001A		42.0
30	MHD, MHDG	HK3001A		45.0
35	ME, MEC, MET, METC, MH, MHG, MHT, MHTG, MES, MESC	HK3501A		48.0
35	MHD, MHDG	HK3501A	PMK35-7	55.0
45	ME, MES, MET, MH, MHG, MHT, MHTG	HK4501A		60.0
45	MHD, MHDG	HK4501A	PHK45-10	70.0

► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG	Ⓢ		
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG	Ⓢ		
35	ME, MEC, MET, METC, MH, MHG, MHTG, MES, MESC	Ⓢ		
45	ME, MET, MH, MHG, MHT, MHTG, METS	Ⓢ		

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	ME, MEC, MET, METC, MH, MHG, MHTG	Ⓢ		
45	ME, MET, MH, MHG, MHT, MHTG	Ⓢ		

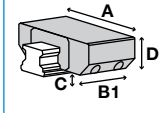
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: ME

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MHG, MHTG	KWH2510DS1		33.0
25	MH, MHG, MHT, MHTG	☉		
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG	☉		
35	ME, MEC, MET, METC, MH, MHG, MHTG, MES, MESC	☉		
45	ME, MET, MH, MHG, MHT, MHTG, METS	☉		

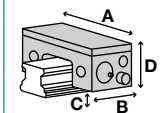
▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2510DS1	2200	70.0	92.0	3.5



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	LBPS1501AS2		24.0
15	MHD	LBPS1501AS2	PLK15-4	28.0
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	LBPS2001AS2		28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	LBPS2001AS2	PLK20-2	30.0
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	LBPS2501AS2		33.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	LBPS2501AS2	PLK25-2	36.0
25	MHD, MHDG	LBPS2501AS2	PLK25-6	40.0
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MHS, MHSG	LBPS3001AS2		42.0
35	ME, MEC, MET, METC, MH, MHG, MHT, MHTG, MES, MESC	LBPS3501AS2		48.0
35	MHD, MHDG	LBPS3501AS2	PLK35-7	55.0
45	MES, MHD, MHDG	☉		

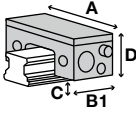
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



► RAIL TYPE: ME

Series LKP pneumatic Clamping NO

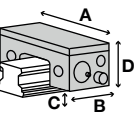
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	LKP1501AS2		24.0
15	MHD	LKP1501AS2	PLK15-4	28.0
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	LKP2001AS2		28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	LKP2001AS2	PLK20-2	30.0
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	LKP2501AS2		33.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	LKP2501AS2	PLK25-2	36.0
25	MHD, MHDG	LKP2501AS2	PLK25-6	40.0
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MHS, MHSG	LKP3001AS2		42.0
35	ME, MEC, MET, METC, MH, MHG, MHT, MHTG, MES, MESC	LKP3501AS2		48.0
35	MHD, MHDG	LKP3501AS2	PLK35-7	55.0
45	MES, MHD, MHDG			



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	LKPS1501AS2		24.0
15	MHD	LKPS1501AS2	PLK15-4	28.0
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	LKPS2001AS2		28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	LKPS2001AS2	PLK20-2	30.0
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	LKPS2501AS2		33.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	LKPS2501AS2	PLK25-2	36.0
25	MHD, MHDG	LKPS2501AS2	PLK25-6	40.0
45	MES, MHD, MHDG			



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50

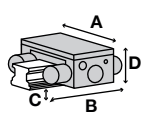
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: ME

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESH, MESH..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	MBPS1504BS1		24
15	MHD	MBPS1504BS1	PMB15-4	28
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESH, MESH..SL, MHS, MHS	MBPS3004BS1		42
30	MHD, MHDG	MBPS3004BS1	PMB30-3	45

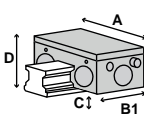
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1504BS1	750	61	94.0	2.5
MBPS3004BS1	1300	90	98.2	7.0



Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESH, MESH..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	MK1501A		24.0
15	MHD	MK1501A	PMK15-4	28.0
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESH, MESH..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	MK2001A		28.0
20	MH, MHG, MHS, MHS, MHT, MHTG	MK2001A		30.0
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESH, MESH..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	MK2501A		33.0
25	MH, MHG, MHS, MHS, MHT, MHTG	MK2501A	PMK25-2	36.0
25	MHD, MHDG	MK2501A	PMK25-6	40.0
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESH, MESH..SL, MHS, MHS	MK3001A		42.0
30	MHD, MHDG	MK3001A	PMK30-3	45.0
35	ME, MEC, MET, METC, MH, MHG, MHT, MHTG, MES, MESC	MK3501A		48.0
35	MHD, MHDG	MK3501A	PMK35-7	55.0
45	ME, MES, MET, MH, MHG, MHT, MHTG	MK4501A		60.0
45	MHD, MHDG	MK4501A	PMK45-10	70.0

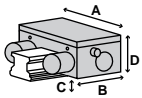
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5



► RAIL TYPE: ME

Series MKS pneumatic Clamping NC

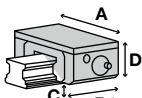
rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHS, MHT	MKS1501A		24.0
15	MHD	MKS1501A	PMK15-4	28.0
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	MKS2001A		28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	MKS2001A		30.0
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL	MKS2501A		33.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	MKS2501A	PMK25-2	36.0
25	MHD, MHDG	MKS2501A	PMK25-6	40.0
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MHS, MHSG	MKS3001A		42.0
30	MHD, MHDG	MKS3001A	PMK30-3	45.0
35	ME, MEC, MET, METC, MH, MHG, MHT, MHTG, MES, MESC	MKS3501A		48.0
35	MHD, MHDG	MKS3501A	PMK35-7	55.0
45	ME, MES, MET, MH, MHG, MHT, MHTG	MKS4501A		60.0
45	MHD, MHDG	MKS4501A	PMK45-10	70.0



► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHS, MHSG, MHT			
25	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHS, MHSG, MHT, MHTG			
30	ME, ME..SL, MEC, MEC..SL, MEG, MEG..SL, MET, MET..SL, METC, METC..SL, METG, METG..SL, MH, MHG, MHT, MHTG, MES, MES..SL, MESC, MESC..SL, MESG, MESG..SL, MHS, MHSG	UBPS3010DS1		42
30	MHD, MHDG	UBPS3010DS1	PUB30-3	45
35	ME, MEC, MET, METC, MH, MHG, MHT, MHTG, MES, MESC	UBPS3510DS1		48
35	MHD, MHDG	UBPS3510DS1	PUB35-7	55
45	ME, MES, MET, MH, MHG, MHT, MHTG	UBPS4510DS1		60
45	MHD, MHDG	UBPS4510DS1	PUB45-10	70



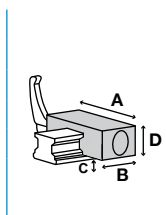
► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3010DS1	1750	90	109.0	5.0
UBPS3510DS1	2500	100	109.0	6.0
UBPS4510DS1	3100	120	109.0	8.0

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MH

Series HK manual Clamping bistable

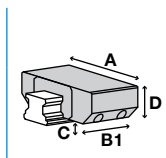
rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
12	MHD, MHD..SL, MHDC..SL, MHDG..SL, MHT, MHT..SL	☉		
15	MH, MHS, MHT	HK1501A		24.0
15	MHD	HK1501A	PHK15-4	28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	HK2001A		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	HK2501A		36.0
25	MHD, MHDG	HK2501A	PHK25-4	40.0
30	MH, MHG, MHT, MHTG, MHS, MHSG	HK3001A		42.0
30	MHD, MHDG	HK3001A	PHK30-3	45.0
35	MH, MHG, MHT, MHTG	HK3501A		48.0
35	MHD, MHDG	HK3501A	PMK35-7	55.0
45	MH, MHG, MHT, MHTG	HK4501A		60.0
45	MHD, MHDG	HK4501A	PHK45-10	70.0



▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	MH, MHG, MHT, MHTG	☉		
30	MH, MHG, MHT, MHTG	☉		
35	MH, MHG, MHT, MHTG	KBH3510AS1		48.0
45	MH, MHG, MHT, MHTG	KBH4510AS1		60.0



▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3510AS1	5700	100	128.5	8.0
KBH4510AS1	9900	120	163.0	10.0

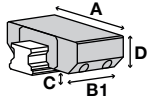
Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	MH, MHG, MHT, MHTG	☉		
45	MH, MHG, MHT, MHTG	☉		

► RAIL TYPE: MH

Series KWH hydraulic Clamping NO

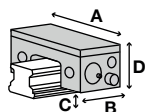
rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	MH, MHG, MHT, MHTG	KWH2510AS1		36.0
30	MH, MHG, MHT, MHTG	KWH3010AS1		42.0
35	MH, MHG, MHT, MHTG	KWH3510AS1		48.0
45	MH, MHG, MHT, MHTG	KWH4510AS1		60.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2510AS1	2200	70.0	92.0	6.5
KWH3010AS1	3000	90.0	103.5	7.0
KWH3510AS1	5700	100.0	120.5	8.0
KWH4510AS1	9900	120.0	155.0	10.0

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	MH, MHS, MHT	LBPS1501AS2		24.0
15	MHD	LBPS1501AS2	PLK15-4	28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	LBPS2001AS2		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	LBPS2501AS2		36.0
25	MHD, MHDG	LBPS2501AS2	PLK25-4	40.0
30	MH, MHG, MHT, MHTG, MHS, MHSG	LBPS3001AS2		42.0
30	MHD, MHDG	LBPS3001AS2	PLK30-3	45.0
35	MH, MHG, MHT, MHTG	LBPS3501AS2		48.0
35	MHD, MHDG	LBPS3501AS2	PLK35-7	55.0
45	MHD, MHDG			



► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	5.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50

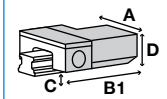
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MH

Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
12	MHD, MHD..SL, MHDC..SL, MHDG..SL, MHT, MHT..SL	Ⓢ		
15	MH, MHS, MHT, MHD	Ⓢ		
20	MH, MHG, MHS, MHSG, MHT, MHTG	Ⓢ		
20	MH, MHG, MHS, MHSG, MHT, MHTG	LCE2001AS1		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG, MHD, MHDG	Ⓢ		
30	MH, MHG, MHT, MHTG, MHS, MHSG, MHD, MHDG	Ⓢ		
35	MH, MHG, MHT, MHTG, MHD, MHDG	Ⓢ		
45	MH, MHG, MHT, MHTG, MHD, MHDG	Ⓢ		

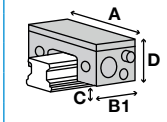
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE2001AS1	700	62.8	115.0	9.05



Series LKP pneumatic Clamping NO


rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
15	MH, MHS, MHT	LKP1501AS2		24.0
15	MHD	LKP1501AS2	PLK15-4	28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	LKP2001AS2		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	LKP2501AS2		36.0
25	MHD, MHDG	LKP2501AS2	PLK25-4	40.0
30	MH, MHG, MHT, MHTG, MHS, MHSG	LKP3001AS2		42.0
30	MHD, MHDG	LKP3001AS2	PLK30-3	45.0
35	MH, MHG, MHT, MHTG	LKP3501AS2		48.0
35	MHD, MHDG	LKP3501AS2	PLK35-7	55.0
45	MHD, MHDG	Ⓢ		

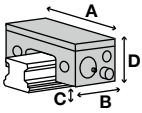
▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50



► RAIL TYPE: MH




Series LKPS pneumatic Clamping NC

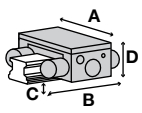
rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	MH, MHS, MHT	LKPS1501AS2		24.0
15	MHD	LKPS1501AS2	PLK15-4	28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	LKPS2001AS2		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	LKPS2501AS2		36.0
25	MHD, MHDG	LKPS2501AS2	PLK25-4	40.0
45	MHD, MHDG			



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	5.50
LKPS2501AS2	750	48.0	86.0	7.50

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	MH, MHS, MHT	MBPS1504BS1		24
15	MHD	MBPS1504BS1	PMB15-4	28
20	MH, MHG, MHS, MHSG, MHT, MHTG	MBPS2004BS1-01		30
25	MH, MHG, MHS, MHSG, MHT, MHTG	MBPS2510AS1	PMB25-1	36
25	MHD, MHDG	MBPS2510AS1	PMB25-5	40
30	MH, MHG, MHT, MHTG, MHS, MHSG, MHD, MHDG			
35	MH, MHG, MHT, MHTG, MHD, MHDG			
35	MH, MHG, MHT, MHTG	MBPS3504BS1		48
35	MHD, MHDG	MBPS3504BS1	PMB35-7	55
45	MH, MHG, MHT, MHTG, MHD, MHDG			



► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1504BS1	750	61	94.0	2.5
MBPS2004BS1-01	750	66	94.0	4.2
MBPS2510AS1	1200	75	94.0	5.5
MBPS3504BS1	2000	100	106.0	9.5

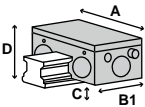
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MH

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
12	MHD, MHD..SL, MHDC..SL, MHDG..SL	MK1201A		20.0
12	MHT, MHT..SL	MK1201A		19.0
15	MH, MHS, MHT	MK1501A		24.0
15	MHD	MK1501A	PMK15-4	28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	MK2001A		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	MK2501A		36.0
25	MHD, MHDG	MK2501A	PMK25-4	40.0
30	MH, MHG, MHT, MHTG, MHS, MHSG	MK3001A		42.0
30	MHD, MHDG	MK3001A	PMK30-3	45.0
35	MH, MHG, MHT, MHTG	MK3501A		48.0
35	MHD, MHDG	MK3501A	PMK35-7	55.0
45	MH, MHG, MHT, MHTG	MK4501A	PMK45-2	60.0
45	MHD, MHDG	MK4501A	PMK45-12	70.0

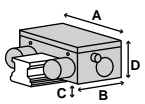
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1201A	350	48.6	50.0	4.0
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	14.5



Series MKS pneumatic Clamping NC



rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
12	MHD, MHD..SL, MHDC..SL, MHDG..SL	MKS1201A		20.0
12	MHT, MHT..SL	MKS1201A		19.0
15	MH, MHS, MHT	MKS1501A		24.0
15	MHD	MKS1501A	PMK15-4	28.0
20	MH, MHG, MHS, MHSG, MHT, MHTG	MKS2001A		30.0
25	MH, MHG, MHS, MHSG, MHT, MHTG	MKS2501A		36.0
25	MHD, MHDG	MKS2501A	PMK25-4	40.0
30	MH, MHG, MHT, MHTG, MHS, MHSG	MKS3001A		42.0
30	MHD, MHDG	MKS3001A	PMK30-3	45.0
35	MH, MHG, MHT, MHTG	MKS3501A		48.0
35	MHD, MHDG	MKS3501A	PMK35-7	55.0
45	MH, MHG, MHT, MHTG	MKS4501A	PMK45-2	60.0
45	MHD, MHDG	MKS4501A	PMK45-12	70.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1201A	250	48.6	63.0	4.0
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	14.5

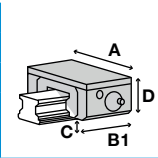


► RAIL TYPE: MH

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	MH, MHG, MHS, MHSG, MHT, MHTG			
25	MH, MHG, MHS, MHSG, MHT, MHTG, MHD, MHDG			
30	MH, MHG, MHT, MHTG, MHS, MHSG	UBPS3010AS1		42
30	MHD, MHDG	UBPS3010AS1	PUB30-3	45
35	MH, MHG, MHT, MHTG	UBPS3510AS1		48
35	MHD, MHDG	UBPS3510AS1	PUB35-7	55
45	MH, MHG, MHT, MHTG	UBPS4510AS1		60
45	MHD, MHDG	UBPS4510AS1	PUB45-10	70

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3010AS1	1750	90	109.0	5.0
UBPS3510AS1	2500	100	109.0	6.0
UBPS4510AS1	3100	120	109.0	8.0

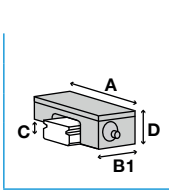


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: ML

Series MCP pneumatic Clamping NO

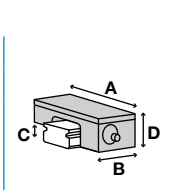
rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
5	ML, MLC	⊗		
7	ML, MLC, MLG	⊗		
9	ML, MLC, MLG	⊗		
12	MLC, ML, MLG	MCP1201A		13.0
15	MLC, ML, MLG	MCP1504A		16.0
20	MLC, ML, MLG	MCP2001A		20.0
25	ML, MLC, MLG	⊗		



▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95
MCP2001A	550	48.7	41.0	2.45

Series MCPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MCPS		
		Order No.	Adapter plate*	D [mm]
5	ML, MLC	⊗		
7	ML, MLC, MLG	⊗		
9	ML, MLC, MLG	⊗		
12	MLC, ML, MLG	MCPS1201A		13.0
15	MLC, ML, MLG	MCPS1504A		16.0
20	MLC, ML, MLG	MCPS2001A		20.0
25	ML, MLC, MLG	⊗		



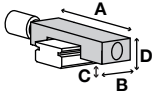
▶ Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95
MCPS2001A	400	48.7	60.0	2.45

► RAIL TYPE: ML

Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	ML, MLC	HK0500M		6.0
7	ML, MLC, MLG	HK0700M		8.0
9	ML, MLC, MLG	HK0900M		10.0
12	MLC, ML, MLG	HK1200M		13.0
15	MLC, ML, MLG	HK1500M		16.0
20	MLC, ML, MLG	HK2000M		20.0
25	ML, MLC, MLG	HK2500M		25.0




► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK2000M	220	46.0	26.0	5.0
HK2500M	300	48.0	35.0	5.0
HK0500M	40	12.0	14.0	1.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7



- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MV

Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
20	MV			
25	MV			
30	MV			

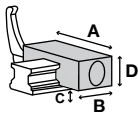


► RAIL TYPE: TKD(KUE)

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	KWE	HK1501A		24.0
15	KWE..-H	HK1501A	PHK15-4	28.0
20	KWE, KWE..-H	HK2001A		30.0
25	KWE	HK2501A	PHK25-4	36.0
25	KWE..-H	HK2501A	PHK25-8	40.0
30	KWE	HK3001A	PHK30-4	42.0
30	KWE..-H	HK3001A	PHK30-7	45.0
35	KWE	HK3501A	PMK35-8	48.0
35	KWE..-H	HK3501A	PMK35-15	55.0

Version	Holding force [N]	A [mm]	B [mm]	C [mm]	► Series HK	
					Order No.	Adapter plate*
HK1501A	1200	47.0	24.0	6.5		
HK2001A	1200	60.0	24.0	10.0		
HK2501A	1200	70.0	30.0	9.0		
HK3001A	2000	90.0	39.0	8.0		
HK3501A	2000	100.0	39.0	8.0		



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	KWE	Ⓢ		
30	KWE	Ⓢ		
35	KWE	Ⓢ		

Series KWH hydraulic Clamping NO

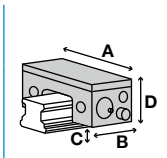
rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	KWE	Ⓢ		
30	KWE	Ⓢ		
35	KWE	Ⓢ		

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKD(KUE)

Series LBPS pneumatic Clamping and braking NC

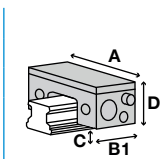
rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	KWE, KWE..H	☉		
20	KWE, KWE..H	LBPS2001AS2		30.0
25	KWE	☉		
25	KWE..H	LBPS2501AS2	PLK25-6	40.0
30	KWE	LBPS3001AS2		42.0
30	KWE..H	LBPS3001AS2	PLK30-3	45.0
35	KWE	LBPS3501AS2		48.0
35	KWE..H	LBPS3501AS2	PLK35-7	55.0



▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2001AS2	600	44.0	81.0	5.50
LBPS2501AS2	750	48.0	86.0	5.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50

Series LKP pneumatic Clamping NO

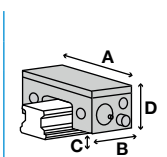
rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
15	KWE, KWE..H	☉		
20	KWE, KWE..H	LKP2001AS2		30.0
25	KWE	☉		
25	KWE..H	LKP2501AS2	PLK25-6	40.0
30	KWE	LKP3001AS2		42.0
30	KWE..H	LKP3001AS2	PLK30-3	45.0
35	KWE	LKP3501AS2		48.0
35	KWE..H	LKP3501AS2	PLK35-7	55.0



▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	5.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	KWE, KWE..H	☉		
20	KWE, KWE..H	LKPS2001AS2		30.0
25	KWE	☉		
25	KWE..H	LKPS2501AS2	PLK25-6	40.0



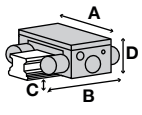
▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS2001AS2	600	44.0	81.0	5.50
LKPS2501AS2	750	48.0	86.0	5.50



► RAIL TYPE: TKD(KUE)

Series MBPS pneumatic Clamping and braking NC

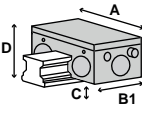
rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	KWE, KWE..H			
20	KWE, KWE..H			
25	KWE, KWE..H			
25	KWE	MBPS2501GS1	PMB25-3	36
25	KWE..H	MBPS2501GS1	PMB25-7	40
30	KWE	MBPS3004BS1		42
30	KWE..H	MBPS3004BS1	PMB30-3	45
35	KWE, KWE..H			
35	KWE	MBPS3504BS1	PMB35-4	48
35	KWE..H	MBPS3504BS1	PMB35-11	55



► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501GS1	1000	75	95.0	5.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3504BS1	2000	100	106.0	5.5

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	KWE	MK1501A		24.0
15	KWE..H	MK1501A	PMK15-4	28.0
20	KWE, KWE..H	MK2001A		30.0
25	KWE	MK2501A	PMK25-4	36.0
25	KWE..H	MK2501A	PMK25-8	40.0
30	KWE	MK3001A	PMK30-2	42.0
30	KWE..H	MK3001A	PMK30-5	45.0
35	KWE	MK3501A	PMK35-8	48.0
35	KWE..H	MK3501A	PMK35-15	55.0



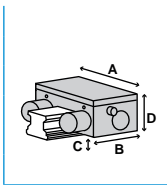
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	4.0
MK3001A	1750	90.0	39.0	5.0
MK3501A	2000	100.0	39.0	3.5

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKD(KUE)

Series MKS pneumatic Clamping NC

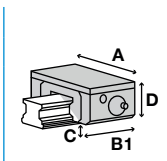
rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	KWE	MKS1501A		24.0
15	KWE..H	MKS1501A	PMK15-4	28.0
20	KWE, KWE..H	MKS2001A		30.0
25	KWE	MKS2501A	PMK25-4	36.0
25	KWE..H	MKS2501A	PMK25-8	40.0
30	KWE	MKS3001A	PMK30-2	42.0
30	KWE..H	MKS3001A	PMK30-5	45.0
35	KWE	MKS3501A	PMK35-8	48.0
35	KWE..H	MKS3501A	PMK35-15	55.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	4.0
MKS3001A	1050	90.0	68.0	5.0
MKS3501A	1250	100.0	67.0	3.5

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	KWE, KWE..H	Ⓢ		
25	KWE, KWE..H	Ⓢ		
30	KWE	UBPS3002CS1		42
30	KWE..H	UBPS3002CS1	PUB30-3	45
35	KWE	UBPS3502CS1	PUB35-2	48
35	KWE..H	UBPS3502CS1	PUB35-9	55



▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3002CS1	1750	90	109.0	5.0
UBPS3502CS1	2500	100	109.0	4.0

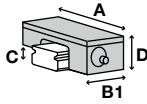


► RAIL TYPE: TKMD(KUEM)

Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
5	KWEM, KWEM..-C			
7	KWEM, KWEM..-C, KWEM..-L			
9	KWEM, KWEM..-C, KWEM..-L			
12	KWEM, KWEM..-C, KWEM..-L	MCP1201A		13.0
15	KWEM, KWEM..-C, KWEM..-L	MCP1504A		16.0

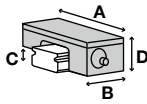
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
5	KWEM, KWEM..-C			
7	KWEM, KWEM..-C, KWEM..-L			
9	KWEM, KWEM..-C, KWEM..-L			
12	KWEM, KWEM..-C, KWEM..-L	MCPS1201A		13.0
15	KWEM, KWEM..-C, KWEM..-L	MCPS1504A		16.0

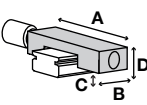
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	KWEM, KWEM..-C			
7	KWEM, KWEM..-C, KWEM..-L	HK0700M		8.0
9	KWEM, KWEM..-C, KWEM..-L	HK0900M		10.0
12	KWEM, KWEM..-C, KWEM..-L	HK1200M		13.0
15	KWEM, KWEM..-C, KWEM..-L	HK1500M		16.0

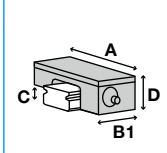
► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7



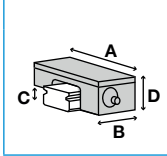
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKMD..B(KUME..B)

Series MCP pneumatic Clamping NO

rail size	▶ Carriage type		▶ Series MCP		
	Order No.	Adapter plate*	D [mm]		
12	KWME..B	MCP1202F	13.0		
	▶ Series MCP				
	Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1202F	280	37.5	34.0	2.95	

Series MCPS pneumatic Clamping NC

rail size	▶ Carriage type		▶ Series MCPS		
	Order No.	Adapter plate*	D [mm]		
12	KWME..B	MCPS1202F	13.0		
	▶ Series MCPS				
	Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1202F	240	37.5	52.5	2.95	

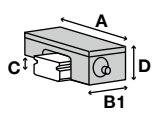


► RAIL TYPE: TKMDC(KUME..-C)

Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
12	KWME..-C	MCP1201A		13.0
15	KWME..-C	MCP1504A		16.0

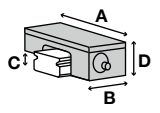
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
12	KWME..-C	MCPS1201A		13.0
15	KWME..-C	MCPS1504A		16.0

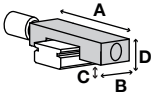
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
12	KWME..-C	HK1200M		13.0
15	KWME..-C	HK1500M		16.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0

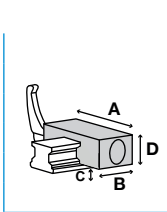


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKSD(KUSE)

Series HK manual Clamping bistable

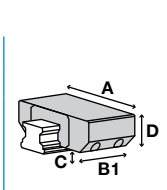
rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
20	KWSE, KWSE..L, KWSE..H, KWSE..HL	HK2001A		30.0
25	KWSE, KWSE..L	HK2501A		36.0
25	KWSE..H, KWSE..HL	HK2501A	PHK25-4	40.0
30	KWSE, KWSE..L	HK3001A		42.0
30	KWSE..H, KWSE..HL	HK3001A	PHK30-3	45.0
35	KWSE, KWSE..L	HK3501A		48.0
45	KWSE, KWSE..L	HK4501A		60.0



▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0

Series KBH hydraulic Clamping and braking NO

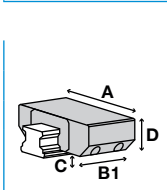
rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	KWSE, KWSE..L	⊗		
30	KWSE, KWSE..L	⊗		
35	KWSE, KWSE..L	KBH3502AS1		48.0
45	KWSE, KWSE..L	KBH4502AS1		60.0
55	KWSE, KWSE..L	KBH5502AS1		70.0
55	KWSE, KWSE..L	⊗		



▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3502AS1	5700	100	128.5	8.0
KBH4502AS1	9900	120	163.0	10.0
KBH5502AS1	13700	140	192.0	13.0

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	KWSE, KWSE..L	KBHS3502AS1A		48
45	KWSE, KWSE..L	KBHS4502AS1A		60
55	KWSE, KWSE..L	KBHS5502AS1A		70



▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3502AS1A	7500	100	155	6.0
KBHS4502AS1A	9000	120	180	8.0
KBHS5502AS1A	11500	140	214	10.0

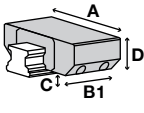


► RAIL TYPE: TKSD(KUSE)

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	KWSE, KWSE..L	KWH2502AS1		36.0
30	KWSE, KWSE..L	KWH3002AS1		42.0
35	KWSE, KWSE..L	KWH3502AS1		48.0
45	KWSE, KWSE..L	KWH4502AS1		60.0
55	KWSE, KWSE..L	KWH5502AS1		70.0

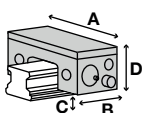
► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2502AS1	2200	70.0	92.0	6.5
KWH3002AS1	3000	90.0	103.5	7.0
KWH3502AS1	5700	100.0	120.5	8.0
KWH4502AS1	9900	120.0	155.0	10.0
KWH5502AS1	13700	140.0	184.0	13.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
20	KWSE, KWSE..L, KWSE..H, KWSE..HL	LBPS2001AS2		30.0
25	KWSE, KWSE..L	LBPS2501AS2		36.0
25	KWSE..H, KWSE..HL	LBPS2501AS2	PLK25-4	40.0
30	KWSE, KWSE..L	Ⓢ		
30	KWSE..H, KWSE..HL	LBPS3002AS2	PLK30-5	45.0
35	KWSE..H, KWSE..HL	LBPS3502AS2	PLK35-7	55.0
35	KWSE, KWSE..L	LBPS3502AS2		48.0

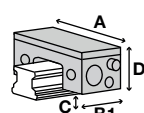
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2001AS2	600	44.0	81.0	5.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3002AS2	1200	60.0	109.5	5.00
LBPS3502AS2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
20	KWSE, KWSE..L, KWSE..H, KWSE..HL	LKP2001AS2		30.0
25	KWSE, KWSE..L	LKP2501AS2		36.0
25	KWSE..H, KWSE..HL	LKP2501AS2	PLK25-4	40.0
30	KWSE, KWSE..L	Ⓢ		
30	KWSE..H, KWSE..HL	LKP3002AS2	PLK30-5	45.0
35	KWSE..H, KWSE..HL	LKP3502AS2	PLK35-7	55.0
35	KWSE, KWSE..L	LKP3502AS2		48.0

► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3002AS2	1800	60.0	66.50	5.00
LKP3502AS2	2500	70.0	68.50	7.50



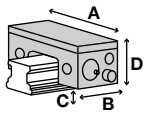
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKSD(KUSE)

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type		▶ Series LKPS		
	Order No.	Adapter plate*	D [mm]		
20	KWSE, KWSE..L, KWSE..H, KWSE..HL		LKPS2001AS2		30.0
25	KWSE, KWSE..L		LKPS2501AS2		36.0
25	KWSE..H, KWSE..HL		LKPS2501AS2	PLK25-4	40.0

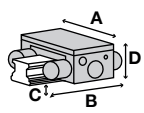
▶ Series LKPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	D [mm]
LKPS2001AS2	600	44.0	81.0	5.50	
LKPS2501AS2	750	48.0	86.0	7.50	



Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type		▶ Series MBPS		
	Order No.	Adapter plate*	D [mm]		
25	KWSE, KWSE..L		MBPS2502AS1		36
25	KWSE..H, KWSE..HL		MBPS2502AS1	PMB25-4	40
30	KWSE, KWSE..L		MBPS3002AS1		42
30	KWSE..H, KWSE..HL		MBPS3002AS1	PMB30-3	45
35	KWSE..H, KWSE..HL		MBPS3502AS1	PMB35-7	55
35	KWSE, KWSE..L		MBPS3502AS1		48
45	KWSE, KWSE..L				Ⓢ

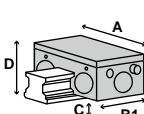
▶ Series MBPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	D [mm]
MBPS2502AS1	1200	75	94.0	6.5	
MBPS3002AS1	1300	90	98.2	7.0	
MBPS3502AS1	2000	100	106.0	9.5	



Series MK pneumatic Clamping NO

rail size	▶ Carriage type		▶ Series MK		
	Order No.	Adapter plate*	D [mm]		
20	KWSE, KWSE..L, KWSE..H, KWSE..HL		MK2001A		30.0
25	KWSE, KWSE..L		MK2501A		36.0
25	KWSE..H, KWSE..HL		MK2501A	PMK25-4	40.0
30	KWSE, KWSE..L		MK3001A		42.0
30	KWSE..H, KWSE..HL		MK3001A	PMK30-3	45.0
35	KWSE, KWSE..L		MK3501A		48.0
45	KWSE, KWSE..L		MK4501A		60.0

▶ Series MK					
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]	D [mm]
MK2001A	1000	66.0	39.0	4.5	
MK2501A	1200	75.0	35.0	8.0	
MK3001A	1750	90.0	39.0	7.0	
MK3501A	2000	100.0	39.0	11.5	
MK4501A	2250	120.0	49.0	16.5	



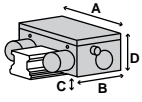


► RAIL TYPE: TKSD(KUSE)

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
20	KWSE, KWSE..-L, KWSE..-H, KWSE..-HL	MKS2001A		30.0
25	KWSE, KWSE..-L	MKS2501A		36.0
25	KWSE..-H, KWSE..-HL	MKS2501A	PMK25-4	40.0
30	KWSE, KWSE..-L	MKS3001A		42.0
30	KWSE..-H, KWSE..-HL	MKS3001A	PMK30-3	45.0
35	KWSE, KWSE..-L	MKS3501A		48.0
45	KWSE, KWSE..-L	MKS4501A		60.0

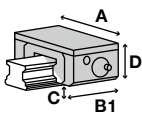
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	KWSE, KWSE..-L, KWSE..-H, KWSE..-HL	☉		
25	KWSE, KWSE..-L, KWSE..-H, KWSE..-HL	☉		
30	KWSE, KWSE..-L	UBPS3002AS1		42
30	KWSE..-H, KWSE..-HL	UBPS3002AS1	PUB30-3	45
35	KWSE..-H, KWSE..-HL	UBPS3502AS1	PUB35-7	55
35	KWSE, KWSE..-L	UBPS3502AS1		48
45	KWSE, KWSE..-L	UBPS4502AS1		60
45	KWSE..-H, KWSE..-HL	UBPS4502AS1	PUB45-10	70
55	KWSE, KWSE..-L	UBPS5502AS1L		70
55	KWSE..-H, KWSE..-HL	UBPS5502AS1L	PUBL55-10	80

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3002AS1	1750	90	109.0	5.0
UBPS3502AS1	2500	100	109.0	6.0
UBPS4502AS1	3100	120	109.0	8.0
UBPS5502AS1L	5200	140	197.0	10.0

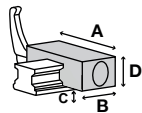


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKVD(KUVE)

Series HK manual Clamping bistable

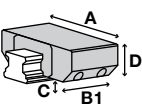
rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE...-B-S	HK1502K		24.0
15	KWVE..-B-H	HK1502K	PHK15-4	28.0
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	HK2002K		27.0
20	KWVE..-B-EC, KWVE..-B-ESC	HK2002K		28.0
20	KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	HK2002K		30.0
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL	HK2501A	PHK25-8	40.0
25	KWVE..-B-EC, KWVE..-B-ESC	HK2501A		33.0
25	KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL, KWVE...-B-HS-N, KWVE...-B-HS-SN	HK2501A		31.0
25	KWVE..-B, KWVE..-B-HS, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	HK2501A	PHK25-4	36.0
30	KWVE..-B-H, KWVE..-B-HL	HK3002K	PHK30-3	45.0
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	HK3002K		42.0
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	HK3002K		38.0
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	HK3502K		44.0
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	HK3502K	PMK35-4	48.0
35	KWVE..-B-H, KWVE..-B-HL	HK3502K	PMK35-11	55.0
45	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	HK4502K		52.0
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	HK4502K		60.0
45	KWVE..-B-H, KWVE..-B-HL	HK4502K	PHK45-10	70.0
55	KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	Ⓢ		



▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1502K	1200	47.0	24.0	6.5
HK2002K	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	9.0
HK3002K	2000	90.0	39.0	12.0
HK3502K	2000	100.0	39.0	12.0
HK4502K	2000	120.0	44.0	4.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	KWVE..-B-EC, KWVE..-B, KWVE..-B-HS, KWVE..-B-L, KWVE..-B-S-HS	Ⓢ		
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-L	Ⓢ		
35	KWVE..-B-EC, KWVE..-B-L, KWVE..-B	KBH3502BS1		48.0
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-L	KBH4502BS1		60.0
55	KWVE..-B, KWVE..-B-L	Ⓢ		



▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3502BS1	5700	100	128.5	8.0
KBH4502BS1	9900	120	163.0	10.0

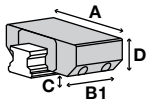


► RAIL TYPE: TKVD(KUVE)

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	KWVE..-B-E, KWVE..-B-EC, KWVE..-B-L, KWVE..-B	KBHS3502BS1A		48
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-L	KBHS4502BS1A		60
55	KWVE..-B, KWVE..-B-L	Ⓢ		

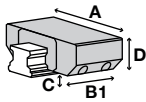
► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3502BS1A	7500	100	155	6.0
KBHS4502BS1A	9000	120	180	8.0



Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	KWVE..-B, KWVE..-B-L	KWH2502BS1		36.0
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-L	KWH3002BS1		42.0
30	KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-SL	KWH3002BS2		42.0
35	KWVE..-B-EC, KWVE..-B-L, KWVE..-B	KWH3502BS1		48.0
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-L	KWH4502BS1		60.0
55	KWVE..-B, KWVE..-B-L	Ⓢ		

► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2502BS1	2200	70.0	92.0	6.5
KWH3002BS1	3000	90.0	103.5	7.0
KWH3002BS2	3000	60.0	103.5	4.0
KWH3502BS1	5700	100.0	120.5	8.0
KWH4502BS1	9900	120.0	155.0	10.0



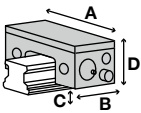
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKVD(KUVE)

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-H	☉		
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	☉		
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL, KWVE...-B-KT-H, KWVE...-B-KT-HL	LBPS2502BS2	PLK25-8	40.0
25	KWVE..-B-EC, KWVE..-B-ESC, KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL, KWVE...-B-HS-N, KWVE...-B-HS-SN	☉		
25	KWVE..-B, KWVE..-B-HS, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	LBPS2502BS2	PLK25-4	36.0
30	KWVE..-B-H, KWVE..-B-HL	LBPS3002BS2	PLK30-3	45.0
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	LBPS3002BS2		42.0
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	LBPS3502BS2		48.0
35	KWVE..-B-H, KWVE..-B-HL	LBPS3502BS2	PLK35-7	55.0
45	KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-SL, KWVE..-B-H, KWVE..-B-HL	☉		
55	KWVE..-B-S, KWVE..-B-SL	☉		

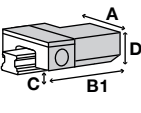
▶ Series LBPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
LBPS2502BS2	750	48.0	86.0	3.50	
LBPS3002BS2	1200	60.0	109.5	7.00	
LBPS3502BS2	1900	70.0	124.5	7.50	



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-S	LCE1502BS1		24.0
15	KWVE..-B-H	LCE1502BS1	PMK15-4	28.0

▶ Series LCE					
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]	
LCE1502BS1	600	55.0	115.0	4.75	

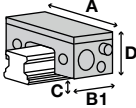




► RAIL TYPE: TKVD(KUVE)

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-H	Ⓢ		
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	Ⓢ		
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-HS-N, KWVE..-B-HS-SN, KWVE..-B-KT-H, KWVE..-B-KT-HL, KWVE..-B, KWVE..-B-HS, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	Ⓢ		
30	KWVE..-B-H, KWVE..-B-HL	LKP3002BS2	PLK30-3	45.0
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	LKP3002BS2		42.0
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	Ⓢ		
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	Ⓢ		
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	LKP3502BS2		48.0
35	KWVE..-B-H, KWVE..-B-HL	LKP3502BS2	PLK35-7	55.0
45	KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-SL, KWVE..-B-H, KWVE..-B-HL	Ⓢ		
55	KWVE..-B-S, KWVE..-B-SL	Ⓢ		



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3002BS2	1800	60.0	66.50	7.00
LKP3502BS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

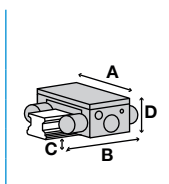
rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-H	Ⓢ		
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	Ⓢ		
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-HS-N, KWVE..-B-HS-SN, KWVE..-B-KT-H, KWVE..-B-KT-HL, KWVE..-B, KWVE..-B-HS, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	Ⓢ		
45	KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-SL, KWVE..-B-H, KWVE..-B-HL	Ⓢ		
55	KWVE..-B-S, KWVE..-B-SL	Ⓢ		

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKVD(KUVE)

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-S, KWVE..-B-H	☉		
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-EC, KWVE..-B-ESC	☉		
20	KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	MBPS2002BS1		30
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL	MBPS2502BS1	PMB25-7	40
25	KWVE..-B-EC, KWVE..-B-ESC	MBPS2502BS1		33
25	KWVE..-B, KWVE..-B-HS, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	MBPS2502BS1	PMB25-3	36
30	KWVE..-B-H, KWVE..-B-HL	MBPS3002BS1	PMB30-3	45
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MBPS3002BS1		42
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MBPS3502BS1		44
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	MBPS3502BS1	PMB35-4	48
35	KWVE..-B-H, KWVE..-B-HL	MBPS3502BS1	PMB35-11	55
45	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MBPS4502BS1		60
45	KWVE..-B-H, KWVE..-B-HL	MBPS4502BS1	PMB45-10	70
55	KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	☉		



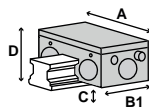
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2002BS1	750	66	94.0	4.2
MBPS2502BS1	850	75	94.0	3.5
MBPS3002BS1	2000	90	107.0	3.5
MBPS3502BS1	2000	100	106.0	5.5
MBPS4502BS1	3600	120	113.2	8.0



► RAIL TYPE: TKVD(KUVE)

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-S	MK1502K		24.0
15	KWVE..-B-H	MK1502K	PMK15-4	28.0
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MK2002K		27.0
20	KWVE..-B-EC, KWVE..-B-ESC	MK2002K		28.0
20	KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	MK2002K		30.0
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL, KWVE...-B-KT-H, KWVE...-B-KT-HL	MK2502K	PMK25-6	40.0
25	KWVE..-B-EC, KWVE..-B-ESC	MK2502K	PMK25-2	33.0
25	KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL, KWVE...-B-HS-N, KWVE...-B-HS-SN	MK2502K		31.0
25	KWVE..-B, KWVE..-B-HS, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	MK2502K	PMK25-2	36.0
30	KWVE..-B-H, KWVE..-B-HL	MK3002K	PMK30-3	45.0
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MK3002K		42.0
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MK3002K		38.0
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MK3502K		44.0
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	MK3502K		48.0
35	KWVE..-B-H, KWVE..-B-HL	MK3502K	PMK35-11	55.0
45	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MK4502E		52.0
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MK4502K		60.0
45	KWVE..-B-H, KWVE..-B-HL	MK4502K	PMK45-10	70.0
55	KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MK5502K		70.0



► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1502K	650	55.0	39.0	2.5
MK2002K	1000	66.0	39.0	1.5
MK2502K	1200	75.0	35.0	6.0
MK3002K	1750	90.0	39.0	7.0
MK3502K	2000	100.0	39.0	7.5
MK4502E	2250	120.0	49.0	7.0
MK4502K	2250	120.0	49.0	16.5
MK5502K	2250	128.0	49.0	21.5

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

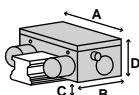
▶ RAIL TYPE: TKVD(KUVE)

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
15	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE...-B-S	MKS1502K		24.0
15	KWVE..-B-H	MKS1502K	PMK15-4	28.0
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MKS2002K		27.0
20	KWVE..-B-EC, KWVE..-B-ESC	MKS2002K		28.0
20	KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	MKS2002K		30.0
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL, KWVE...-B-KT-H, KWVE...-B-KT-HL	MKS2502K	PMK25-6	40.0
25	KWVE..-B-EC, KWVE..-B-ESC	MKS2502K	PMK25-2	33.0
25	KWVE...-B-N, KWVE...-B-NL, KWVE...-B-SN, KWVE...-B-SNL, KWVE...-B-HS-N, KWVE...-B-HS-SN	MKS2502K		31.0
25	KWVE..-B, KWVE..-B-HS, KWVE..-B-KT, KWVE..-B-KT-L, KWVE..-B-KT-S, KWVE..-B-KT-SL, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	MKS2502K	PMK25-2	36.0
30	KWVE..-H-HS, KWVE..-B-H, KWVE..-B-HL	MKS3002K		38.0
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MKS3002K	PMK30-3	45.0
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MKS3002K		42.0
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	MKS3502K		48.0
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	MKS3502K	PMK35-11	55.0
35	KWVE..-B-H, KWVE..-B-HL	MKS3502K		44.0
45	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-H, KWVE..-B-HL	MKS4502E		52.0
45	KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	MKS4502K	PMK45-10	70.0
45	KWVE..-B-H, KWVE..-B-HL	MKS4502K		60.0

▶ Series MKS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1502K	400	55.0	58.0	2.5
MKS2002K	600	66.0	61.0	1.5
MKS2502K	750	75.0	56.0	6.0
MKS3002K	1050	90.0	68.0	3.0
MKS3502K	1250	100.0	67.0	11.5
MKS4502E	1450	120.0	82.0	7.0
MKS4502K	1450	120.0	82.0	16.5

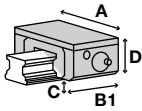




► RAIL TYPE: TKVD(KUVE)

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-H, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	☉		
25	KWVE..-B-H, KWVE..-B-H-HS, KWVE..-B-HL, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B, KWVE..-B-HS, KWVE..-B-L, KWVE..-B-S, KWVE..-B-S-HS, KWVE..-B-SL	☉		
25	KWVE..-B-EC, KWVE..-B-ESC	☒		
30	KWVE..-B-H, KWVE..-B-HL	UBPS3002BS1	PUB30-3	45
30	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	UBPS3002BS1		42
30	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
35	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
35	KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL, KWVE..-B	UBPS3502BS1		48
35	KWVE..-B-H, KWVE..-B-HL	UBPS3502BS1	PUB35-7	55
45	KWVE..-B-N, KWVE..-B-NL, KWVE..-B-SN, KWVE..-B-SNL	☉		
45	KWVE..-B, KWVE..-B-EC, KWVE..-B-ESC, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	UBPS4502BS1L		60
45	KWVE..-B-H, KWVE..-B-HL	UBPS4502BS1L	PUBL45-10	70
55	KWVE..-B, KWVE..-B-L, KWVE..-B-S, KWVE..-B-SL	UBPS5502BS1L		70



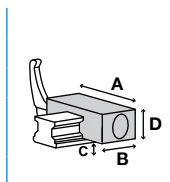
► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3002BS1	1750	90	109.0	5.0
UBPS3502BS1	2600	100	109.0	6.0
UBPS4502BS1L	5200	120	197.0	8.0
UBPS5502BS1L	7700	140	197.0	10.0

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TKVD-W(KUVE-W)

Series HK manual Clamping bistable

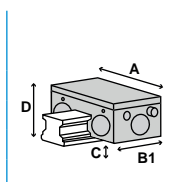
rail size	Carriage type	Series HK		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-W	HK1502KB		21.0
20	KWVE..-W, KWVE..-WL	HK2002KB		27.0
25	KWVE..-W, KWVE..-WL	HK2502KB		35.0
30	KWVE..-W	HK3002KB		42.0
35	KWVE..-WL	HK3502KB		50.0



Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1502KB	1200	69.0	25.0	3.5
HK2002KB	1200	80.0	30.0	4.0
HK2502KB	1200	118.0	30.0	11.0
HK3002KB	2000	140.0	39.0	12.0
HK3502KB	2000	145.0	39.0	11.0

Series MK pneumatic Clamping NO

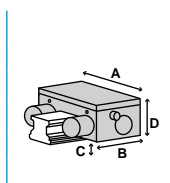
rail size	Carriage type	Series MK		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-W	MK1502KB		21.0
20	KWVE..-W, KWVE..-WL	MK2002KB		27.0
25	KWVE..-W, KWVE..-WL	MK2502KB		35.0
30	KWVE..-W	MK3002KB		42.0
35	KWVE..-WL	MK3502KB		50.0



Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1502KB	650	77.0	49.0	2.0
MK2002KB	1000	88.0	39.0	1.5
MK2502KB	1200	121.0	36.0	5.0
MK3002KB	1750	142.0	39.0	7.0
MK3502KB	2000	156.0	42.0	4.5

Series MKS pneumatic Clamping NC

rail size	Carriage type	Series MKS		
		Order No.	Adapter plate*	D [mm]
15	KWVE..-W	MKS1502KB		21.0
20	KWVE..-W, KWVE..-WL	MKS2002KB		27.0
25	KWVE..-W, KWVE..-WL	MKS2502KB		35.0
30	KWVE..-W	MKS3002KB		42.0
35	KWVE..-WL	MKS3502KB		50.0

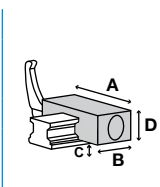


Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1502KB	400	77.0	58.0	2.0
MKS2002KB	600	88.0	61.0	1.5
MKS2502KB	750	121.0	57.0	5.0
MKS3002KB	1050	142.0	68.0	7.0
MKS3502KB	1250	156.0	67.0	4.5

► RAIL TYPE: TSX-E(RUE)

Series HK manual Clamping bistable

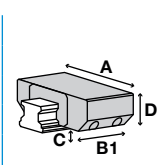
rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE	HK2501A		36.0
25	RWU..D-H-FE, RWU..D-HL-FE, RWU..D-HL-OE, RWU..D-H-OE	HK2501A	PHK25-4	40.0
35	RWU..E, RWU..E-L	HK3502R		48.0
35	RWU..E-HL, RWU..E-H	HK3502R	PMK35-7	55.0
45	RWU..E, RWU..E-L	HK4502R		60.0
45	RWU..E-HL, RWU..E-H	HK4502R	PHK45-10	70.0
55	RWU..E, RWU..E-L	HK5502R		70.0
55	RWU..E-HL, RWU..E-H	HK5502R	PHK55-10	80.0
65	RWU..E, RWU..E-L	HK6501A		90.0
65	RWU..E-HL, RWU..E-H	HK6501A	PHK65-10	100.0



► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	13.0
HK3502R	2000	100.0	39.0	16.0
HK4502R	2000	120.0	44.0	18.0
HK5502R	2000	140.0	49.0	19.0
HK6501A	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

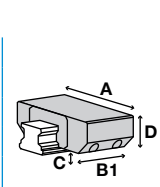
rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE	⊗		
35	RWU..E, RWU..E-L	⊗		
45	RWU..E, RWU..E-L	KBH4502DS1		60.0
55	RWU..E, RWU..E-L	KBH5502DS1		70.0
65	RWU..E, RWU..E-L	KBH6502DS1		90.0
65	RWU..E-HL	KBH6502DS3	PKW65-14	68.0



► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH4502DS1	9900	120	163.0	10.0
KBH5502DS1	13700	140	192.0	13.0
KBH6502DS1	22700	170	235.0	14.0
KBH6502DS3	22700	126	235.0	10.0

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	RWU..E, RWU..E-L	KBHS3502DS1A		48
45	RWU..E, RWU..E-L	KBHS4502DS1A		60
55	RWU..E, RWU..E-L	KBHS5502DS1A		70
65	RWU..E, RWU..E-L	KBHS6502DS1A		90



► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3502DS1A	7500	100	155	6.0
KBHS4502DS1A	9000	120	180	8.0
KBHS5502DS1A	11500	140	214	10.0
KBHS6502DS1A	16000	170	270	11.0

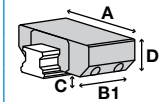
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TSX-E(RUE)

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate *	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE	KWH2502DS1		36.0
35	RWU..E, RWU..E-L	KWH3502DS1		48.0
35	RWU..E-HL, RWU..E-H	KWH3502DS3		55.0
45	RWU..E, RWU..E-L	KWH4502DS1		60.0
55	RWU..E, RWU..E-L	KWH5502DS1		70.0
55	RWU..E-HL, RWU..E-H	KWH5502DS3		80.0
65	RWU..E, RWU..E-L	KWH6502DS1		90.0
65	RWU..E-HL	KWH6502DS3	PKW65-14	68.0
100	RWU..E-L	KWH10002DS1		120.0

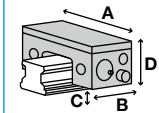
▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10002DS1	34000	250	208.0	15.0
KWH2502DS1	2200	70.0	92.0	6.5
KWH3502DS1	5700	100.0	120.5	8.0
KWH3502DS3	3500	70.0	120.5	5.0
KWH4502DS1	9900	120.0	155.0	10.0
KWH5502DS1	13700	140.0	184.0	13.0
KWH5502DS3	13700	100.0	184.0	9.0
KWH6502DS1	22700	170.0	227.0	14.0
KWH6502DS3	22700	126.0	226.0	10.0



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate *	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE	LBPS2502DS2	PLK25-2	36.0
25	RWU..D-H-FE, RWU..D-HL-FE, RWU..D-HL-OE, RWU..D-H-OE	LBPS2502DS2	PLK25-6	40.0
35	RWU..E, RWU..E-L, RWU..E-HL, RWU..E-H	Ⓢ		

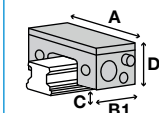
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2502DS2	750	48.0	86.0	5.50



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE	LKP2502DS2	PLK25-2	36.0
25	RWU..D-H-FE, RWU..D-HL-FE, RWU..D-HL-OE, RWU..D-H-OE	LKP2502DS2	PLK25-6	40.0
35	RWU..E, RWU..E-L, RWU..E-HL, RWU..E-H	Ⓢ		

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2502DS2	1100	48.0	57.00	5.50



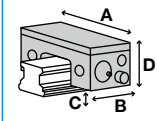


► RAIL TYPE: TSX-E(RUE)

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	RWU..-D-FE, RWU..-D-L-FE, RWU..-D-L-OE, RWU..-D-OE	LKPS2502DS2	PLK25-2	36.0
25	RWU..-D-H-FE, RWU..-D-HL-FE, RWU..-D-HL-OE, RWU..-D-H-OE	LKPS2502DS2	PLK25-6	40.0

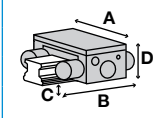
► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS2502DS2	750	48.0	86.0	5.50



Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	RWU..-D-FE, RWU..-D-L-FE, RWU..-D-L-OE, RWU..-D-OE	MBPS2502DS1	PMB25-2	36
25	RWU..-D-H-FE, RWU..-D-HL-FE, RWU..-D-HL-OE, RWU..-D-H-OE	MBPS2502DS1	PMB25-6	40
35	RWU..-E, RWU..-E-L	MBPS3502DS1	PMB35-2	48
35	RWU..-E-HL, RWU..-E-H	MBPS3502DS1	PMB35-9	55
45	RWU..-E, RWU..-E-L	MBPS4502DS1		60
45	RWU..-E-HL, RWU..-E-H	MBPS4502DS1	PMB45-10	70
55	RWU..-E, RWU..-E-L	MBPS5502DS1	PMB55-3	70
55	RWU..-E-HL, RWU..-E-H	MBPS5502DS1	PMB55-13	80

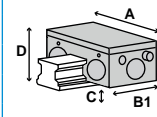
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2502DS1	1200	75	94.0	4.5
MBPS3502DS1	2100	100	105.7	4.0
MBPS4502DS1	3100	120	113.2	8.0
MBPS5502DS1	3500	140	144.0	8.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	RWU..-D-FE, RWU..-D-L-FE, RWU..-D-L-OE, RWU..-D-OE	MK2502R	PMK25-2	36.0
25	RWU..-D-H-FE, RWU..-D-HL-FE, RWU..-D-HL-OE, RWU..-D-H-OE	MK2502R	PMK25-6	40.0
35	RWU..-E, RWU..-E-L	MK3502R-02		48.0
35	RWU..-E-HL, RWU..-E-H	MK3502R-02	PMK35-7	55.0
45	RWU..-E, RWU..-E-L	MK4502R	PMK45-2	60.0
45	RWU..-E-HL, RWU..-E-H	MK4502R	PMK45-12	70.0
55	RWU..-E, RWU..-E-L	MK5502R		70.0
55	RWU..-E-HL, RWU..-E-H	MK5502R	PMK55-10	80.0
65	RWU..-E, RWU..-E-L	MK6502R		90.0
65	RWU..-E-HL, RWU..-E-H	MK6502R	PMK65-10	100.0

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2502R	1200	75.0	35.0	6.0
MK3502R-02	2000	100.0	39.0	4.0
MK4502R	2250	120.0	49.0	14.5
MK5502R	2250	128.0	49.0	13.0
MK6502R	2250	138.0	49.0	27.0

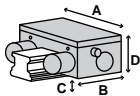


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: TSX-E(RUE)

Series MKS pneumatic Clamping NC

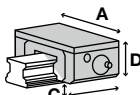
rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE	MKS2502R	PMK25-2	36.0
25	RWU..D-H-FE, RWU..D-HL-FE, RWU..D-HL-OE, RWU..D-H-OE	MKS2502R	PMK25-6	40.0
35	RWU..E, RWU..E-L	MKS3502R-02		48.0
35	RWU..E-HL, RWU..E-H	MKS3502R-02	PMK35-7	55.0
45	RWU..E, RWU..E-L	MKS4502R	PMK45-2	60.0
45	RWU..E-HL, RWU..E-H	MKS4502R	PMK45-12	70.0
55	RWU..E, RWU..E-L	MKS5502R		70.0
55	RWU..E-HL, RWU..E-H	MKS5502R	PMK55-10	80.0
65	RWU..E, RWU..E-L	MKS6502R		90.0
65	RWU..E-HL, RWU..E-H	MKS6502R	PMK65-10	100.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2502R	750	75.0	56.0	6.0
MKS3502R-02	1250	100.0	67.0	4.0
MKS4502R	1450	120.0	82.0	14.5
MKS5502R	1450	128.0	82.0	13.0
MKS6502R	1450	138.0	82.0	27.0

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	RWU..D-FE, RWU..D-L-FE, RWU..D-L-OE, RWU..D-OE, RWU..D-H-FE, RWU..D-HL-FE, RWU..D-HL-OE, RWU..D-H-OE	⊗		
35	RWU..E, RWU..E-L	UBPS3502DS1		48
35	RWU..E-HL, RWU..E-H	UBPS3502DS1	PUB35-7	55
45	RWU..E, RWU..E-L	UBPS4502DS1L		60
45	RWU..E-HL, RWU..E-H	UBPS4502DS1L	PUBL45-10	70
55	RWU..E, RWU..E-L	UBPS5502DS1L		70
55	RWU..E-HL, RWU..E-H	UBPS5502DS1L	PUBL55-10	80
65	RWU..E, RWU..E-L	UBPS6502DS1L		90
65	RWU..E-HL, RWU..E-H	UBPS6502DS1L	PUBL65-10	100

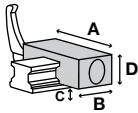


▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3502DS1	2500	100	109.0	6.0
UBPS4502DS1L	5200	120	197.0	8.0
UBPS5502DS1L	7700	140	197.0	10.0
UBPS6502DS1L	7700	170	197.0	11.5

► RAIL TYPE: LA

Series HK manual Clamping bistable

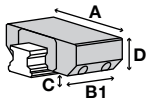
rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	LA..EL, LA..FL, LA..GL, LA..HL	HK2501A		36.0
25	LA..AN, LA..BN	HK2501A	PHK25-4	40.0
30	LA..EL, LA..FL, LA..GL, LA..HL	HK3001A		42.0
30	LA..AN, LA..BN	HK3001A		45.0
35	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	HK3501A		48.0
35	LA..AN, LA..BN	HK3501A	PMK35-7	55.0
45	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	HK4501A		60.0
45	LA..AN, LA..BN	HK4501A	PHK45-10	70.0
55	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	HK5501A		70.0
55	LA..AN, LA..BN	HK5501A	PHK55-10	80.0
65	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	HK6501A		90.0



► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LA..EL, LA..FL, LA..GL, LA..HL	KWH2504DS1		36.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2504DS1	2200	70.0	92.0	6.5

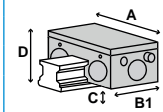
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LA

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
25	LA..EL, LA..FL, LA..GL, LA..HL	MK2501A		36.0
25	LA..AN, LA..BN	MK2501A	PMK25-4	40.0
30	LA..EL, LA..FL, LA..GL, LA..HL	MK3001A		42.0
30	LA..AN, LA..BN	MK3001A		45.0
35	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MK3501A		48.0
35	LA..AN, LA..BN	MK3501A	PMK35-7	55.0
45	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MK4501A		60.0
45	LA..AN, LA..BN	MK4501A	PMK45-10	70.0
55	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MK5501A		70.0
55	LA..AN, LA..BN	MK5501A	PMK55-10	80.0
65	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MK6501A		90.0
65	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MK6501N		90.0

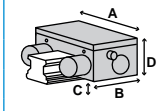
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5
MK5501A	2250	128.0	49.0	21.5
MK6501A	2250	138.0	49.0	27.0
MK6501N	2250	138.0	49.0	31.0



Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
25	LA..EL, LA..FL, LA..GL, LA..HL	MKS2501A		36.0
25	LA..AN, LA..BN	MKS2501A	PMK25-4	40.0
30	LA..EL, LA..FL, LA..GL, LA..HL	MKS3001A		42.0
30	LA..AN, LA..BN	MKS3001A		45.0
35	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MKS3501A		48.0
35	LA..AN, LA..BN	MKS3501A	PMK35-7	55.0
45	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MKS4501A		60.0
45	LA..AN, LA..BN	MKS4501A	PMK45-10	70.0
55	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MKS5501A		70.0
55	LA..AN, LA..BN	MKS5501A	PMK55-10	80.0
65	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MKS6501A		90.0
65	LA..EL, LA..FL, LA..GL, LA..HL, LA..AL, LA..BL	MKS6501N		90.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501A	1450	128.0	82.0	21.5
MKS6501A	1450	138.0	82.0	27.0
MKS6501N	1450	138.0	82.0	31.0

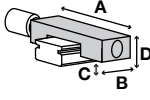


► RAIL TYPE: LE

Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	LAE..AR	HK0700MW		9.0
9	LAE..AL, LAE..AR, LAE..TL, LAE..TR	HK0900MW		12.0
12	LAE..AL, LAE..AR	HK1200MW		14.0
15	LAE..AL, LAE..AR	HK1500MW		16.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5
HK0700MW	65	25.0	12.0	3.0
HK0900MW	100	30.0	17.0	4.2

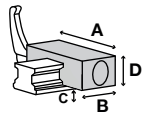


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LH

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	LAH..EMZ, LAH..GMZ	HK1501A		24.0
15	LAH..ANZ, LAH..BNZ	HK1501A	PHK15-4	28.0
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	HK2001A		30.0
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	HK2501A		36.0
25	LAH..ANZ, LAH..BNZ	HK2501A	PHK25-4	40.0
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	HK3001A		42.0
30	LAH..ANZ, LAH..BNZ	HK3001A	PHK30-3	45.0
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	HK3501A		48.0
35	LAH..ANZ, LAH..BNZ	HK3501A	PMK35-7	55.0
45	LAH..EMZ, LAH..GMZ	HK4501A		60.0
45	LAH..ANZ, LAH..BNZ	HK4501A	PHK45-10	70.0
55	LAH..EMZ, LAH..GMZ	HK5501A		70.0
55	LAH..ANZ, LAH..BNZ	HK5501A	PHK55-10	80.0
65	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	HK6501A		90.0

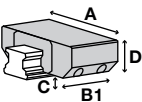


▶ Series HK

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	LAH..EMZ, LAH..GMZ	⊗		
30	LAH..EMZ, LAH..GMZ	⊗		
35	LAH..EMZ, LAH..GMZ	KBH3504BS1		48.0
45	LAH..EMZ, LAH..GMZ	KBH4504BS1		60.0
55	LAH..EMZ, LAH..GMZ	KBH5504BS1		70.0
65	LAH..EMZ, LAH..GMZ	KBH6504BS1		90.0



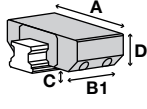
▶ Series KBH

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3504BS1	5700	100	128.5	8.0
KBH4504BS1	9900	120	163.0	10.0
KBH5504BS1	13700	140	192.0	13.0
KBH6504BS1	22700	170	235.0	14.0

► RAIL TYPE: LH

Series KBHS hydraulic Clamping and braking NC

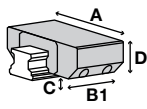
rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	LAH..EMZ, LAH..GMZ	KBHS3504BS1A		48
45	LAH..EMZ, LAH..GMZ	KBHS4504BS1A		60
55	LAH..EMZ, LAH..GMZ	KBHS5504BS1A		70
65	LAH..EMZ, LAH..GMZ	KBHS6504BS1A		90



► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3504BS1A	7500	100	155	6.0
KBHS4504BS1A	9000	120	180	8.0
KBHS5504BS1A	11500	140	214	10.0
KBHS6504BS1A	16000	170	270	11.0

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LAH..EMZ, LAH..GMZ	KWH2504BS1		36.0
30	LAH..EMZ, LAH..GMZ	KWH3004BS1		42.0
35	LAH..EMZ, LAH..GMZ	KWH3504BS1		48.0
45	LAH..EMZ, LAH..GMZ	KWH4504BS1		60.0
55	LAH..EMZ, LAH..GMZ	KWH5504BS1		70.0
65	LAH..EMZ, LAH..GMZ	KWH6504BS1		90.0



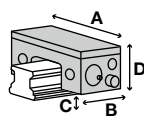
► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2504BS1	2200	70.0	92.0	6.5
KWH3004BS1	3000	90.0	103.5	7.0
KWH3504BS1	5700	100.0	120.5	8.0
KWH4504BS1	9900	120.0	155.0	10.0
KWH5504BS1	13700	140.0	184.0	13.0
KWH6504BS1	22700	170.0	227.0	14.0

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LH

Series LBPS pneumatic Clamping and braking NC

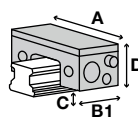
rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate *	D [mm]
15	LAH..EMZ, LAH..GMZ	LBPS1501AS2		24.0
15	LAH..ANZ, LAH..BNZ	LBPS1501AS2	PLK15-4	28.0
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	LBPS2001AS2	PLK20-2	30.0
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LBPS2501AS2		36.0
25	LAH..ANZ, LAH..BNZ	LBPS2501AS2	PLK25-6	40.0
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LBPS3001AS2		42.0
30	LAH..ANZ, LAH..BNZ	LBPS3001AS2	PLK30-3	45.0
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LBPS3501AS2		48.0
35	LAH..ANZ, LAH..BNZ	LBPS3501AS2	PLK35-7	55.0
45	LAH..ANZ			



▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50

Series LKP pneumatic Clamping NO


rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
15	LAH..EMZ, LAH..GMZ	LKP1501AS2		24.0
15	LAH..ANZ, LAH..BNZ	LKP1501AS2	PLK15-4	28.0
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	LKP2001AS2	PLK20-2	30.0
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LKP2501AS2		36.0
25	LAH..ANZ, LAH..BNZ	LKP2501AS2	PLK25-6	40.0
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LKP3001AS2		42.0
30	LAH..ANZ, LAH..BNZ	LKP3001AS2	PLK30-3	45.0
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LKP3501AS2		48.0
35	LAH..ANZ, LAH..BNZ	LKP3501AS2	PLK35-7	55.0
45	LAH..ANZ			

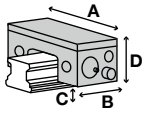


▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

► RAIL TYPE: LH

Series LKPS pneumatic Clamping NC

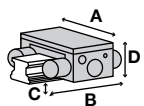
rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	LAH..EMZ, LAH..GMZ	LKPS1501AS2		24.0
15	LAH..ANZ, LAH..BNZ	LKPS1501AS2	PLK15-4	28.0
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	LKPS2001AS2	PLK20-2	30.0
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	LKPS2501AS2		36.0
25	LAH..ANZ, LAH..BNZ	LKPS2501AS2	PLK25-6	40.0
45	LAH..ANZ			



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	7.50

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	LAH..EMZ, LAH..GMZ	MBPS1504BS1		24
15	LAH..ANZ, LAH..BNZ	MBPS1504BS1	PMB15-4	28
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	MBPS2004BS1		30
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MBPS2504BS1		36
25	LAH..ANZ, LAH..BNZ	MBPS2504BS1	PMB25-4	40
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MBPS3004BS1		42
30	LAH..ANZ, LAH..BNZ	MBPS3004BS1	PMB30-3	45
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MBPS3504BS1		48
35	LAH..ANZ, LAH..BNZ	MBPS3504BS1	PMB35-7	55
45	LAH..EMZ, LAH..GMZ	MBPS4504BS1		60
45	LAH..ANZ, LAH..BNZ	MBPS4504BS1	PMB45-10	70
55	LAH..EMZ, LAH..GMZ	MBPS5504BS1		70
55	LAH..ANZ, LAH..BNZ	MBPS5504BS1	PMK65-10	80



► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1504BS1	750	61	94.0	2.5
MBPS2004BS1	750	66	94.0	4.2
MBPS2504BS1	1200	75	94.0	6.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3504BS1	2000	100	106.0	9.5
MBPS4504BS1	2600	120	108.7	15.0
MBPS5504BS1	3600	140	113.2	13.0

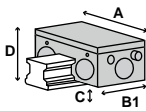
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LH

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
15	LAH..EMZ, LAH..GMZ	MK1501A		24.0
15	LAH..ANZ, LAH..BNZ	MK1501A	PMK15-4	28.0
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	MK2001A		30.0
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MK2501A		36.0
25	LAH..ANZ, LAH..BNZ	MK2501A	PMK25-4	40.0
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MK3001A		42.0
30	LAH..ANZ, LAH..BNZ	MK3001A	PMK30-3	45.0
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MK3501A		48.0
35	LAH..ANZ, LAH..BNZ	MK3501A	PMK35-7	55.0
45	LAH..EMZ, LAH..GMZ	MK4501A		60.0
45	LAH..ANZ, LAH..BNZ	MK4501A	PMK45-10	70.0
55	LAH..EMZ, LAH..GMZ	MK5501A		70.0
55	LAH..ANZ, LAH..BNZ	MK5501A	PMK55-10	80.0
65	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	MK6501A		90.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5
MK5501A	2250	128.0	49.0	21.5
MK6501A	2250	138.0	49.0	27.0



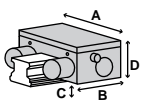
► RAIL TYPE: LH

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	LAH..EMZ, LAH..GMZ	MKS1501A		24.0
15	LAH..ANZ, LAH..BNZ	MKS1501A	PMK15-4	28.0
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	MKS2001A		30.0
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MKS2501A		36.0
25	LAH..ANZ, LAH..BNZ	MKS2501A	PMK25-4	40.0
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MKS3001A		42.0
30	LAH..ANZ, LAH..BNZ	MKS3001A	PMK30-3	45.0
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	MKS3501A		48.0
35	LAH..ANZ, LAH..BNZ	MKS3501A	PMK35-7	55.0
45	LAH..EMZ, LAH..GMZ	MKS4501A		60.0
45	LAH..ANZ, LAH..BNZ	MKS4501A	PMK45-10	70.0
55	LAH..EMZ, LAH..GMZ	MKS5501A		70.0
55	LAH..ANZ, LAH..BNZ	MKS5501A	PMK55-10	80.0
65	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	MKS6501A		90.0

► Series MKS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501A	1450	128.0	82.0	21.5
MKS6501A	1450	138.0	82.0	27.0

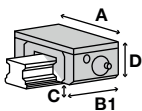


Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	Ⓢ		
25	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ, LAH..ANZ, LAH..BNZ	Ⓢ		
30	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	UBPS3004BS1		42
30	LAH..ANZ, LAH..BNZ	UBPS3004BS1	PUB30-3	45
35	LAH..EMZ, LAH..GMZ, LAH..ALZ, LAH..BLZ	UBPS3504BS1		48
35	LAH..ANZ, LAH..BNZ	UBPS3504BS1	PUB35-7	55
45	LAH..EMZ, LAH..GMZ	UBPS4504BS1		60
45	LAH..ANZ, LAH..BNZ	UBPS4504BS1	PUB45-10	70
55	LAH..EMZ, LAH..GMZ	UBPS5504BS1L		70
55	LAH..ANZ, LAH..BNZ	UBPS5504BS1L	PUBL55-10	80
65	LAH..EMZ, LAH..GMZ, LAH..ANZ, LAH..BNZ	UBPS6504BS1L		90

► Series UBPS

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3004BS1	1750	90	109.0	5.0
UBPS3504BS1	2500	100	109.0	6.0
UBPS4504BS1	3100	120	109.0	8.0
UBPS5504BS1L	5200	140	197.0	10.0
UBPS6504BS1L	7700	170	197.0	11.5



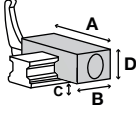
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LS

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate *	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	HK1501A	PHK15-2	24.0
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	HK2001A		28.0
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	HK2501A		33.0
30	LAS..ALZ, LAS..CLZ	HK3001A	PHK30-4	42.0
35	LAS..ALZ, LAS..CLZ	HK3501A		48.0

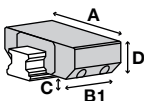
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	4.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	16.0



Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate *	D [mm]
25	LAS..EMZ, LAS..JMZ	⊗		
30	LAS..EMZ, LAS..JMZ	⊗		
35	LAS..KLZ, LAS..FLZ, LAS..ELZ	KBH3504AS1		48.0

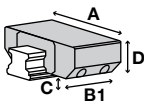
▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3504AS1	5700	100	128.5	8.0



Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate *	D [mm]
35	LAS..KLZ, LAS..FLZ, LAS..ELZ	KBHS3504AS1A		48

▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3504AS1A	7500	100	155	6.0

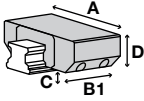


► RAIL TYPE: LS

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LAS..EMZ, LAS..JMZ	KWH2504AS1		36.0
25	LAS..EMZ, LAS..JMZ	Ⓢ		
30	LAS..EMZ, LAS..JMZ	KWH3004AS1		42.0
35	LAS..EMZ, LAS..JMZ	KWH3504AS1		48.0

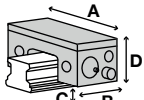
► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2504AS1	2200	70.0	92.0	6.5
KWH3004AS1	3000	90.0	103.5	7.0
KWH3504AS1	5700	100.0	120.5	8.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LBPS1501AS2		24.0
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LBPS2001AS2		28.0
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LBPS2501AS2		33.0
30	LAS..EMZ, LAS..JMZ, LAS..ALZ, LAS..CLZ	LBPS3001AS2		42.0
35	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	Ⓢ		

► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3001AS2	1200	60.0	109.5	7.00



Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LKP1501AS2		24.0
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LKP2001AS2		28.0
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LKP2501AS2		33.0
30	LAS..EMZ, LAS..JMZ, LAS..ALZ, LAS..CLZ	LKP3001AS2		42.0
35	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	Ⓢ		

► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3001AS2	1800	60.0	66.50	7.00



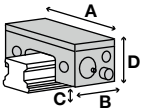
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LS

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LKPS1501AS2		24.0
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LKPS2001AS2		28.0
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	LKPS2501AS2		33.0

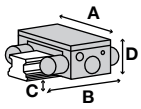
▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50



Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	⊘		
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	⊘		
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MBPS2501GS1	PMB25-1	33
30	LAS..EMZ, LAS..JMZ, LAS..ALZ, LAS..CLZ	⊘		
35	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	⊘		

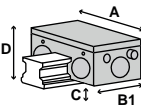
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501GS1	1000	75	95.0	4.5



Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MK1501A		24.0
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MK2001A		28.0
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MK2501A		33.0
30	LAS..EMZ, LAS..JMZ, LAS..ALZ, LAS..CLZ	MK3001A		42.0
35	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MK3501A	PMK35-4	48.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	7.5

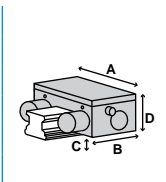


► RAIL TYPE: LS

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MKS1501A		24.0
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MKS2001A		28.0
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MKS2501A		33.0
30	LAS..EMZ, LAS..JMZ, LAS..ALZ, LAS..CLZ	MKS3001A		42.0
35	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	MKS3501A	PMK35-4	48.0

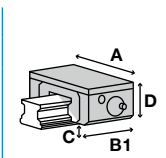
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	7.5



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	⊗		
25	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	⊗		
30	LAS..EMZ, LAS..JMZ, LAS..ALZ, LAS..CLZ	UBPS3004AS1		42
35	LAS..ALZ, LAS..CLZ, LAS..EMZ, LAS..JMZ	UBPS3504AS1		48

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3004AS1	1750	90	109.0	5.0
UBPS3504AS1	2500	100	109.0	6.0



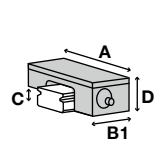
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LU

Series MCP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
9	LAU..TL, LAU..AL, LAU..AR, LAU..TR, LAU..BL, LAU..UL	MCP0901A		10.0
12	LAU..AL, LAU..TL, LAU..AR, LAU..TR, LAU..BL, LAU..UL	MCP1201A		13.0
15	LAU..AI, LAU..BL	MCP1504A		16.0

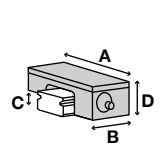
▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95
MCP0901A	130	32.5	34.0	2.15



Series MCPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MCPS		
		Order No.	Adapter plate*	D [mm]
9	LAU..TL, LAU..AL, LAU..AR, LAU..TR, LAU..BL, LAU..UL	MCPS0901A		10.0
12	LAU..AL, LAU..TL, LAU..AR, LAU..TR, LAU..BL, LAU..UL	MCPS1201A		13.0
15	LAU..AI, LAU..BL	MCPS1504A		16.0

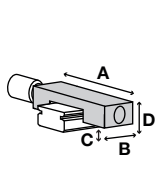
▶ Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95
MCPS0901A	80	32.5	52.5	2.15



Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	LAU..TL	HK0500M		6.0
7	LAU..AL	HK0700M		8.0
9	LAU..TL, LAU..AL, LAU..AR, LAU..TR, LAU..BL, LAU..UL	HK0900M		10.0
12	LAU..AL, LAU..TL, LAU..AR, LAU..TR, LAU..BL, LAU..UL	HK1200M		13.0
15	LAU..AI, LAU..BL	HK1500M		16.0

▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK0500M	40	12.0	14.0	1.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7

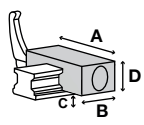


► RAIL TYPE: LW

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
17	LAW..ELZ	HK1701B		17.0
21	LAW..ELZ	HK2101B		21.0
27	LAW..ELZ	HK2701B		27.0
35	LAW..ELZ	HK3501B		35.0
50	LAW..ELZ	HK5001B		50.0

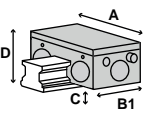
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1701B	1200	60.0	25.0	2.5
HK2101B	1200	77.0	24.0	3.0
HK2701B	1200	80.0	30.0	4.0
HK3501B	2000	135.0	39.0	4.0
HK5001B	2000	145.0	39.0	11.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
17	LAW..ELZ	MK1701B		17.0
21	LAW..ELZ	MK2101B		21.0
27	LAW..ELZ	MK2701B		27.0
35	LAW..ELZ	MK3501B		35.0
50	LAW..ELZ	MK5001B		50.0

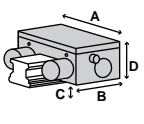
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1701B	350	70.0	48.0	1.2
MK2101B	650	77.0	49.0	2.0
MK2701B	1000	88.0	53.0	4.0
MK3501B	1200	121.0	36.0	5.0
MK5001B	2000	156.0	39.0	4.5



Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
17	LAW..ELZ	MKS1701B		17.0
21	LAW..ELZ	MKS2101B		21.0
27	LAW..ELZ	MKS2701B		27.0
35	LAW..ELZ	MKS3501B		35.0
50	LAW..ELZ	MKS5001B		50.0

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1701B	250	70.0	64.0	1.2
MKS2101B	400	77.0	58.0	2.0
MKS2701B	600	88.0	65.0	4.0
MKS3501B	750	121.0	57.0	5.0
MKS5001B	1250	156.0	67.0	4.5

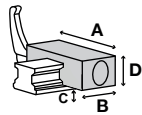


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NH

Series HK manual Clamping bistable

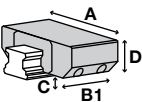
rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	NH..EM, NH..GM	HK1501A		24.0
15	NH..AN, NH..BN	HK1501A	PHK15-4	28.0
20	NH..EM, NH..GM, NH..AN, NH..BN	HK2001A		30.0
25	NH..EM, NH..GM, NH..AL, NH..BL	HK2501A		36.0
25	NH..AN, NH..BN	HK2501A	PHK25-4	40.0
30	NH..EM, NH..GM, NH..AL, NH..BL	HK3001A		42.0
30	NH..AN, NH..BN	HK3001A	PHK30-3	45.0
35	NH..EM, NH..GM, NH..AL, NH..BL	HK3501A		48.0
35	NH..AN, NH..BN	HK3501A	PMK35-7	55.0
45	NH..EM, NH..GM, NH..AL, NH..BL	HK4501A		60.0
45	NH..AN, NH..BN	HK4501A	PHK45-10	70.0
55	NH..EM, NH..GM, NH..AL, NH..BL	HK5501A		70.0
55	NH..AN, NH..BN	HK5501A	PHK55-10	80.0
65	NH..EM, NH..GM, NH..AN, NH..BN	HK6501A		90.0



▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	NH..EM, NH..GM	Ⓢ		
30	NH..EM, NH..GM	Ⓢ		
35	NH..EM, NH..GM	KBH3504BS1		48.0
45	NH..EM, NH..GM	KBH4504BS1		60.0
55	NH..EM, NH..GM	KBH5504BS1		70.0
65	NH..EM, NH..GM	KBH6504BS1		90.0



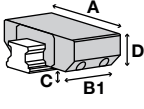
▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3504BS1	5700	100	128.5	8.0
KBH4504BS1	9900	120	163.0	10.0
KBH5504BS1	13700	140	192.0	13.0
KBH6504BS1	22700	170	235.0	14.0

► RAIL TYPE: NH

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	NH..EM, NH..GM	KBHS3504BS1A		48
45	NH..EM, NH..GM	KBHS4504BS1A		60
55	NH..EM, NH..GM	KBHS5504BS1A		70
65	NH..EM, NH..GM	KBHS6504BS1A		90

► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3504BS1A	7500	100	155	6.0
KBHS4504BS1A	9000	120	180	8.0
KBHS5504BS1A	11500	140	214	10.0
KBHS6504BS1A	16000	170	270	11.0



Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	NH..EM, NH..GM	⊗		
30	NH..EM, NH..GM	⊗		
35	NH..EM, NH..GM	KWH3504BS1		48.0
45	NH..EM, NH..GM	KWH4504BS1		60.0
55	NH..EM, NH..GM	KWH5504BS1		70.0
65	NH..EM, NH..GM	KWH6504BS1		90.0

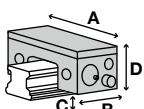
► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH3504BS1	5700	100.0	120.5	8.0
KWH4504BS1	9900	120.0	155.0	10.0
KWH5504BS1	13700	140.0	184.0	13.0
KWH6504BS1	22700	170.0	227.0	14.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	NH..EM, NH..GM	LBPS1501AS2		24.0
15	NH..AN, NH..BN	LBPS1501AS2	PLK15-4	28.0
20	NH..EM, NH..GM, NH..AN, NH..BN	LBPS2001AS2	PLK20-2	30.0
25	NH..EM, NH..GM, NH..AL, NH..BL	LBPS2501AS2		36.0
25	NH..AN, NH..BN	LBPS2501AS2	PLK25-6	40.0
30	NH..EM, NH..GM, NH..AL, NH..BL	LBPS3001AS2		42.0
30	NH..AN, NH..BN	LBPS3001AS2	PLK30-3	45.0
35	NH..EM, NH..GM, NH..AL, NH..BL	LBPS3501AS2		48.0
35	NH..AN, NH..BN	LBPS3501AS2	PLK35-7	55.0
45	NH..AL, NH..BL, NH..AN, NH..BN	⊗		

► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



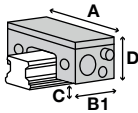
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NH

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
15	NH..EM, NH..GM	LKP1501AS2		24.0
15	NH..AN, NH..BN	LKP1501AS2	PLK15-4	28.0
20	NH..EM, NH..GM, NH..AN, NH..BN	LKP2001AS2	PLK20-2	30.0
25	NH..EM, NH..GM, NH..AL, NH..BL	LKP2501AS2		36.0
25	NH..AN, NH..BN	LKP2501AS2	PLK25-6	40.0
30	NH..EM, NH..GM, NH..AL, NH..BL	LKP3001AS2		42.0
30	NH..AN, NH..BN	LKP3001AS2	PLK30-3	45.0
35	NH..EM, NH..GM, NH..AL, NH..BL	LKP3501AS2		48.0
35	NH..AN, NH..BN	LKP3501AS2	PLK35-7	55.0
45	NH..AL, NH..BL, NH..AN, NH..BN	ⓘ		

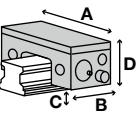
▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50



Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate *	D [mm]
15	NH..EM, NH..GM	LKPS1501AS2		24.0
15	NH..AN, NH..BN	LKPS1501AS2	PLK15-4	28.0
20	NH..EM, NH..GM, NH..AN, NH..BN	LKPS2001AS2	PLK20-2	30.0
25	NH..EM, NH..GM, NH..AL, NH..BL	LKPS2501AS2		36.0
25	NH..AN, NH..BN	LKPS2501AS2	PLK25-6	40.0
45	NH..AL, NH..BL, NH..AN, NH..BN	ⓘ		

▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	7.50



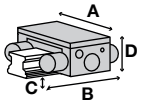
► RAIL TYPE: NH

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	NH..EM, NH..GM	MBPS1504BS1		24
15	NH..AN, NH..BN	MBPS1504BS1	PMB15-4	28
20	NH..EM, NH..GM, NH..AN, NH..BN	MBPS2004BS1		30
25	NH..EM, NH..GM, NH..AL, NH..BL	MBPS2504BS1		36
25	NH..AN, NH..BN	MBPS2504BS1	PMB25-4	40
30	NH..EM, NH..GM, NH..AL, NH..BL	MBPS3004BS1		42
30	NH..AN, NH..BN	MBPS3004BS1	PMB30-3	45
35	NH..EM, NH..GM, NH..AL, NH..BL	MBPS3504BS1		48
35	NH..AN, NH..BN	MBPS3504BS1	PMB35-7	55
45	NH..EM, NH..GM, NH..AL, NH..BL	MBPS4504BS1		60
45	NH..AN, NH..BN	MBPS4504BS1	PMB45-10	70
55	NH..EM, NH..GM, NH..AL, NH..BL	MBPS5504BS1		70
55	NH..AN, NH..BN	MBPS5504BS1	PMK65-10	80

► Series MBPS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1504BS1	750	61	94.0	2.5
MBPS2004BS1	750	66	94.0	4.2
MBPS2504BS1	1200	75	94.0	6.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3504BS1	2000	100	106.0	9.5
MBPS4504BS1	2600	120	108.7	15.0
MBPS5504BS1	3600	140	113.2	13.0



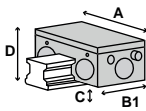
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NH

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
15	NH..EM, NH..GM	MK1501A		24.0
15	NH..AN, NH..BN	MK1501A	PMK15-4	28.0
20	NH..EM, NH..GM, NH..AN, NH..BN	MK2001A		30.0
25	NH..EM, NH..GM, NH..AL, NH..BL	MK2501A		36.0
25	NH..AN, NH..BN	MK2501A	PMK25-4	40.0
30	NH..EM, NH..GM, NH..AL, NH..BL	MK3001A		42.0
30	NH..AN, NH..BN	MK3001A	PMK30-3	45.0
35	NH..EM, NH..GM, NH..AL, NH..BL	MK3501A		48.0
35	NH..AN, NH..BN	MK3501A	PMK35-7	55.0
45	NH..EM, NH..GM, NH..AL, NH..BL	MK4501A		60.0
45	NH..AN, NH..BN	MK4501A	PMK45-10	70.0
55	NH..EM, NH..GM, NH..AL, NH..BL	MK5501A		70.0
55	NH..AN, NH..BN	MK5501A	PMK55-10	80.0
65	NH..EM, NH..GM, NH..AN, NH..BN	MK6501A		90.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5
MK5501A	2250	128.0	49.0	21.5
MK6501A	2250	138.0	49.0	27.0

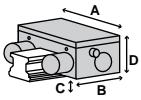


► RAIL TYPE: NH

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	NH..EM, NH..GM	MKS1501A		24.0
15	NH..AN, NH..BN	MKS1501A	PMK15-4	28.0
20	NH..EM, NH..GM, NH..AN, NH..BN	MKS2001A		30.0
25	NH..EM, NH..GM, NH..AL, NH..BL	MKS2501A		36.0
25	NH..AN, NH..BN	MKS2501A	PMK25-4	40.0
30	NH..EM, NH..GM, NH..AL, NH..BL	MKS3001A		42.0
30	NH..AN, NH..BN	MKS3001A	PMK30-3	45.0
35	NH..EM, NH..GM, NH..AL, NH..BL	MKS3501A		48.0
35	NH..AN, NH..BN	MKS3501A	PMK35-7	55.0
45	NH..EM, NH..GM, NH..AL, NH..BL	MKS4501A		60.0
45	NH..AN, NH..BN	MKS4501A	PMK45-10	70.0
55	NH..EM, NH..GM, NH..AL, NH..BL	MKS5501A		70.0
55	NH..AN, NH..BN	MKS5501A	PMK55-10	80.0
65	NH..EM, NH..GM, NH..AN, NH..BN	MKS6501A		90.0

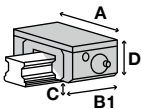
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501A	1450	128.0	82.0	21.5
MKS6501A	1450	138.0	82.0	27.0



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	NH..EM, NH..GM, NH..AN, NH..BN	Ⓢ		
25	NH..EM, NH..GM, NH..AL, NH..BL, NH..AN, NH..BN	Ⓢ		
30	NH..EM, NH..GM, NH..AL, NH..BL	UBPS3004BS1		42
30	NH..AN, NH..BN	UBPS3004BS1	PUB30-3	45
35	NH..EM, NH..GM, NH..AL, NH..BL	UBPS3504BS1		48
35	NH..AN, NH..BN	UBPS3504BS1	PUB35-7	55
45	NH..EM, NH..GM	UBPS4504BS1		60
45	NH..AN, NH..BN	UBPS4504BS1	PUB45-10	70
55	NH..EM, NH..GM	UBPS5504BS1L		70
55	NH..AN, NH..BN	UBPS5504BS1L	PUBL55-10	80
65	NH..EM, NH..GM, NH..AN, NH..BN	UBPS6504BS1L		90

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3004BS1	1750	90	109.0	5.0
UBPS3504BS1	2500	100	109.0	6.0
UBPS4504BS1	3100	120	109.0	8.0
UBPS5504BS1L	5200	140	197.0	10.0
UBPS6504BS1L	7700	170	197.0	11.5



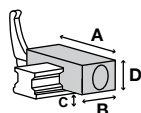
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NS

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate *	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	HK1501A	PHK15-2	24.0
20	NS..JM, NS..EM, NS..CL, NS..AL	HK2001A		28.0
25	NS..JM, NS..EM, NS..CL, NS..AL	HK2501A		33.0
30	NS..JM, NS..EM, NS..CL, NS..AL	HK3001A	PHK30-4	42.0
35	NS..JM, NS..EM, NS..CL, NS..AL	HK3501A		48.0

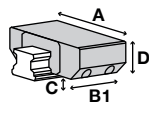
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	4.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	16.0



Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate *	D [mm]
25	NS..JM, NS..EM	☉		
30	NS..JM, NS..EM	☉		
35	NS..JM, NS..EM	KBH3504AS1		48.0

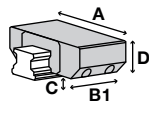
▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3504AS1	5700	100	128.5	8.0



Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate *	D [mm]
35	NS..JM, NS..EM	KBHS3504AS1A		48

▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3504AS1A	7500	100	155	6.0

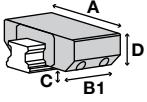


► RAIL TYPE: NS

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	NS..JM, NS..EM			
30	NS..JM, NS..EM			
35	NS..JM, NS..EM	KWH3504AS1		48.0

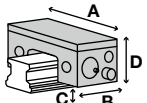
► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH3504AS1	5700	100.0	120.5	8.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	LBPS1501AS2		24.0
20	NS..JM, NS..EM, NS..CL, NS..AL	LBPS2001AS2		28.0
25	NS..JM, NS..EM, NS..CL, NS..AL	LBPS2501AS2		33.0
30	NS..JM, NS..EM, NS..CL, NS..AL	LBPS3001AS2		42.0
35	NS..JM, NS..EM, NS..CL, NS..AL	LBPS3501AS2		48.0

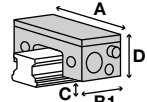
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	LKP1501AS2		24.0
20	NS..JM, NS..EM, NS..CL, NS..AL	LKP2001AS2		28.0
25	NS..JM, NS..EM, NS..CL, NS..AL	LKP2501AS2		33.0
30	NS..JM, NS..EM, NS..CL, NS..AL	LKP3001AS2		42.0
35	NS..JM, NS..EM, NS..CL, NS..AL	LKP3501AS2		48.0

► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50



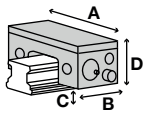
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NS

Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	LKPS1501AS2		24.0
20	NS..JM, NS..EM, NS..CL, NS..AL	LKPS2001AS2		28.0
25	NS..JM, NS..EM, NS..CL, NS..AL	LKPS2501AS2		33.0

▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50



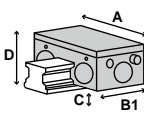
Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	⊗		
20	NS..JM, NS..EM, NS..CL, NS..AL	⊗		
30	NS..JM, NS..EM, NS..CL, NS..AL	⊗		
35	NS..JM, NS..EM, NS..CL, NS..AL	⊗		

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	MK1501A		24.0
20	NS..JM, NS..EM, NS..CL, NS..AL	MK2001A		28.0
25	NS..JM, NS..EM, NS..CL, NS..AL	MK2501A		33.0
30	NS..JM, NS..EM, NS..CL, NS..AL	MK3001A		42.0
35	NS..JM, NS..EM, NS..CL, NS..AL	MK3501A	PMK35-4	48.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	7.5

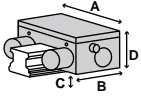


► RAIL TYPE: NS

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	NS..JM, NS..EM, NS..CL, NS..AL	MKS1501A		24.0
20	NS..JM, NS..EM, NS..CL, NS..AL	MKS2001A		28.0
25	NS..JM, NS..EM, NS..CL, NS..AL	MKS2501A		33.0
30	NS..JM, NS..EM, NS..CL, NS..AL	MKS3001A		42.0
35	NS..JM, NS..EM, NS..CL, NS..AL	MKS3501A	PMK35-4	48.0

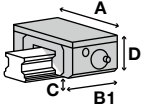
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	7.5



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	NS..JM, NS..EM, NS..CL, NS..AL	Ⓢ		
25	NS..JM, NS..EM, NS..CL, NS..AL	Ⓢ		
30	NS..JM, NS..EM, NS..CL, NS..AL	UBPS3004AS1		42
35	NS..JM, NS..EM, NS..CL, NS..AL	UBPS3504AS1		48

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3004AS1	1750	90	109.0	5.0
UBPS3504AS1	2500	100	109.0	6.0

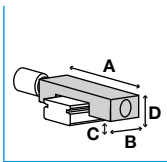


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: PE

Series miniHK manual Clamping bistable




rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate *	D [mm]
5	PAE..AR	⊕		
7	PAE..TR	HK0700MW		9.0
9	PAE..TR, PAE..UR	HK0900MW		12.0
12	PAE..AR, PAE..BR	HK1200MW		14.0
15	PAE..AR, PAE..BR	HK1500MW		16.0



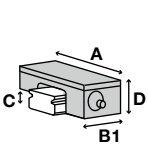
▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5
HK0700MW	65	25.0	12.0	3.0
HK0900MW	100	30.0	17.0	4.2

► RAIL TYPE: PU


Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
5	PAU..TR			
7	PAU..AR			
9	PAU..TR, PAU..UR			
12	PAU..TR, PAU..UR	MCP1201A		13.0
15	PAU..AL, PAU..BL	MCP1504A		16.0

► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95








Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
5	PAU..TR			
7	PAU..AR			
9	PAU..TR, PAU..UR			
12	PAU..TR, PAU..UR	MCPS1201A		13.0
15	PAU..AL, PAU..BL	MCPS1504A		16.0

► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95



Series miniHK manual Clamping bistable

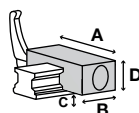
rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	PAU..TR			
7	PAU..AR			
9	PAU..TR			
12	PAU..TR			
15	PAU..AL			

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RA

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate *	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM	HK1505KR		24.0
15	RA..AN, RA..BN	HK1505KR	PHK15-4	28.0
20	RA..GM, RA..EM, RA..AN, RA..BN	Ⓢ		
25	RA..AN, RA..BN	HK2501A		40.0
25	RA..AN, RA..BN, RA..AL, RA..BL, RA..EM, RA..GM	Ⓢ		
25	RA..AL, RA..BL, RA..EM, RA..GM	HK2501A		36.0
30	RA..AL, RA..BL, RA..EM, RA..GM, RA..AN, RA..BN	Ⓢ		
30	RA..AL, RA..BL, RA..EM, RA..GM	HK3001A		42.0
30	RA..AN, RA..BN	HK3001A	PHK30-3	45.0
35	RA..AN, RA..BN	HK3504F	PMK35-7	55.0
35	RA..AL, RA..BL, RA..EM, RA..GM	HK3504F		48.0
45	RA..AL, RA..BL, RA..EM, RA..GM	HK4504F		60.0
45	RA..AN, RA..BN	HK4504F	PHK45-10	70.0
55	RA..AL, RA..BL, RA..EM, RA..GM	HK5504F		70.0
55	RA..AN, RA..BN	HK5504F	PHK55-10	80.0
65	RA..AN, RA..BN, RA..EM, RA..GM	HK6504F		90.0

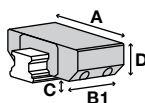


▶ Series HK

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1505KR	1200	47.0	24.0	5.0
HK2501A	1200	70.0	30.0	17.0
HK3001A	2000	90.0	39.0	12.0
HK3504F	2000	100.0	39.0	7.0
HK4504F	2000	120.0	44.0	12.0
HK5504F	2000	140.0	49.0	19.0
HK6504F	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate *	D [mm]
25	RA..EM, RA..GM	Ⓢ		
30	RA..EM, RA..GM	Ⓢ		
35	RA..AN, RA..BN	KBH3504FS3		55.0
35	RA..EM, RA..GM	KBH3504FS1		48.0
45	RA..EM, RA..GM	Ⓢ		
55	RA..EM, RA..GM	KBH5504FS1		70.0
65	RA..EM, RA..GM	Ⓢ		



▶ Series KBH

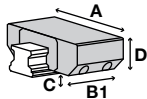
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3504FS3	3500	70	128.5	6.5
KBH3504FS1	5700	100	128.5	8.0
KBH5504FS1	13700	140	192.0	13.0

► RAIL TYPE: RA

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	RA..EM, RA..GM	KBHS3504FS1A		48
45	RA..EM, RA..GM	KBHS4504FS1A		60
55	RA..EM, RA..GM	KBHS5504FS1A		70
65	RA..EM, RA..GM	KBHS6504FS1A		90

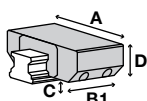
► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3504FS1A	7500	100	155	6.0
KBHS4504FS1A	9000	120	180	8.0
KBHS5504FS1A	11500	140	214	10.0
KBHS6504FS1A	16000	170	270	11.0



Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	RA..EM, RA..GM	KWH2504FS1		36.0
25	RA..EM, RA..GM	Ⓢ		
30	RA..EM, RA..GM	KWH3004FS1		42.0
35	RA..AN, RA..BN	KWH3504FS3		55.0
35	RA..EM, RA..GM	KWH3504FS1		48.0
45	RA..EM, RA..GM	KWH4504FS1		60.0
55	RA..EM, RA..GM	KWH5504FS1		70.0
65	RA..AN, RA..BN	KWH6504FS3		90.0
65	RA..EM, RA..GM	KWH6504FS1		90.0

► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2504FS1	2200	70.0	92.0	6.5
KWH3004FS1	3000	90.0	103.5	7.0
KWH3504FS3	5700	70.0	120.5	6.5
KWH3504FS1	5700	100.0	120.5	8.0
KWH4504FS1	9900	120.0	155.0	10.0
KWH5504FS1	13700	140.0	184.0	13.0
KWH6504FS3	22700	126.0	227.0	12.9
KWH6504FS1	22700	170.0	227.0	13.0

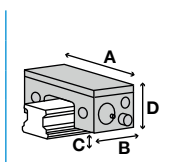


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RA

Series LBPS pneumatic Clamping and braking NC

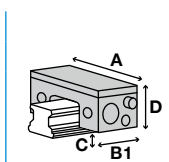
rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM, RA..AN, RA..BN	☉		
20	RA..GM, RA..EM, RA..AN, RA..BN	☉		
25	RA..AN, RA..BN, RA..AL, RA..BL	☉		
25	RA..AN, RA..BN	LBPS2504FS2	PLK25-4	40.0
25	RA..AL, RA..BL, RA..EM, RA..GM	LBPS2504FS2		36.0
30	RA..AL, RA..BL, RA..EM, RA..GM	LBPS3004FS2		42.0
30	RA..AN, RA..BN	LBPS3004FS2	PLK30-3	45.0
35	RA..AN, RA..BN	LBPS3504FS2	PLK35-7	55.0
35	RA..AL, RA..BL, RA..EM, RA..GM	LBPS3504FS2		48.0
45	RA..AL, RA..BL, RA..AN, RA..BN	☉		
55	RA..AL, RA..BL, RA..AN, RA..BN	☉		



▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2504FS2	750	48.0	86.0	7.50
LBPS3004FS2	1200	60.0	109.5	7.00
LBPS3504FS2	1900	70.0	124.5	7.50

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM, RA..AN, RA..BN	☉		
20	RA..GM, RA..EM, RA..AN, RA..BN	☉		
25	RA..AN, RA..BN, RA..AL, RA..BL	☉		
25	RA..AN, RA..BN	LKP2504FS2	PLK25-4	40.0
25	RA..AL, RA..BL, RA..EM, RA..GM	LKP2504FS2		36.0
30	RA..AL, RA..BL, RA..EM, RA..GM	LKP3004FS2		42.0
30	RA..AN, RA..BN	LKP3004FS2	PLK30-3	45.0
35	RA..AN, RA..BN	LKP3504FS2	PLK35-7	55.0
35	RA..AL, RA..BL, RA..EM, RA..GM	LKP3504FS2		48.0
45	RA..AL, RA..BL, RA..AN, RA..BN	☉		
55	RA..AL, RA..BL, RA..AN, RA..BN	☉		



▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2504FS2	1100	48.0	57.00	7.50
LKP3004FS2	1800	60.0	66.50	7.00
LKP3504FS2	2500	70.0	68.50	7.50

► RAIL TYPE: RA

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM, RA..AN, RA..BN			
20	RA..GM, RA..EM, RA..AN, RA..BN			
25	RA..AN, RA..BN, RA..AL, RA..BL			
25	RA..AN, RA..BN	LKPS2504FS2	PLK25-4	40.0
25	RA..AL, RA..BL, RA..EM, RA..GM	LKPS2504FS2		36.0
45	RA..AL, RA..BL, RA..AN, RA..BN			
55	RA..AL, RA..BL, RA..AN, RA..BN			

Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
					► Series LKPS
	LKPS2504FS2	750	48.0	86.0	7.50

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM, RA..AN, RA..BN			
20	RA..GM, RA..EM, RA..AN, RA..BN			
25	RA..AN, RA..BN	MBPS2504FS1	PMB25-4	40
25	RA..AL, RA..BL, RA..EM, RA..GM	MBPS2504FS1		36
30	RA..AL, RA..BL, RA..EM, RA..GM	MBPS3004FS1		42
30	RA..AN, RA..BN	MBPS3004FS1	PMB30-3	45
35	RA..AN, RA..BN	MBPS3504FS1	PMB35-7	55
35	RA..AL, RA..BL, RA..EM, RA..GM	MBPS3504FS1		48
45	RA..AL, RA..BL, RA..EM, RA..GM	MBPS4504FS1		60
45	RA..AN, RA..BN	MBPS4504FS1	PMB45-10	70
55	RA..AL, RA..BL, RA..EM, RA..GM	MBPS5504FS1	PMB55-3	70
55	RA..AN, RA..BN	MBPS5504FS1	PMB55-13	80

Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
					► Series MBPS
	MBPS2504FS1	1300	75	95.2	3.5
MBPS3004FS1	2000	90	107.0	3.5	
MBPS3504FS1	2600	100	105.7	6.0	
MBPS4504FS1	3600	120	113.2	8.0	
MBPS5504FS1	4700	140	144.0	8.0	

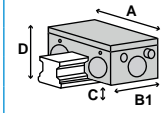
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RA

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM	MK1504F		24.0
15	RA..AN, RA..BN	MK1504F	PMK15-4	28.0
20	RA..GM, RA..EM, RA..AN, RA..BN	MK2004F		30.0
25	RA..AN, RA..BN	MK2505AR	PMK25-4	40.0
25	RA..AL, RA..BL, RA..EM, RA..GM	MK2505AR		36.0
30	RA..AL, RA..BL, RA..EM, RA..GM	MK3004F		42.0
30	RA..AN, RA..BN	MK3004F	PMK30-3	45.0
35	RA..AN, RA..BN	MK3504F	PMK35-7	55.0
35	RA..AL, RA..BL, RA..EM, RA..GM	MK3504F		48.0
45	RA..AL, RA..BL, RA..EM, RA..GM	MK4504F		60.0
45	RA..AN, RA..BN	MK4504F	PMK45-10	70.0
55	RA..AL, RA..BL, RA..EM, RA..GM	MK5504F	PMK55-3	70.0
55	RA..AN, RA..BN	MK5504F	PMK55-13	80.0
65	RA..AN, RA..BN, RA..EM, RA..GM	MK6504F		90.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1504F	650	55.0	39.0	3.2
MK2004F	1000	66.0	39.0	3.0
MK2505AR	1200	75.0	35.0	3.5
MK3004F	1200	90.0	39.0	5.0
MK3504F	2000	100.0	39.0	4.0
MK4504F	2250	120.0	49.0	8.0
MK5504F	2250	128.0	49.0	10.0
MK6504F	2250	138.0	49.0	16.5



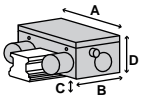
► RAIL TYPE: RA

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	RA..AL, RA..BL, RA..EM, RA..GM	MKS1504F		24.0
15	RA..AN, RA..BN	MKS1504F	PMK15-4	28.0
20	RA..GM, RA..EM, RA..AN, RA..BN	MKS2004F		30.0
25	RA..AN, RA..BN	MKS2505AR	PMK25-4	40.0
25	RA..AL, RA..BL, RA..EM, RA..GM	MKS2505AR		36.0
30	RA..AL, RA..BL, RA..EM, RA..GM	MKS3004F		42.0
30	RA..AN, RA..BN	MKS3004F	PMK30-3	45.0
35	RA..AN, RA..BN	MKS3504F	PMK35-7	55.0
35	RA..AL, RA..BL, RA..EM, RA..GM	MKS3504F		48.0
45	RA..AL, RA..BL, RA..EM, RA..GM	MKS4504F		60.0
45	RA..AN, RA..BN	MKS4504F	PMK45-10	70.0
55	RA..AL, RA..BL, RA..EM, RA..GM	MKS5504F	PMK55-3	70.0
55	RA..AN, RA..BN	MKS5504F	PMK55-13	80.0
65	RA..AN, RA..BN, RA..EM, RA..GM	MKS6504F		90.0

► Series MKS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1504F	400	55.0	58.0	3.2
MKS2004F	600	66.0	61.0	3.0
MKS2505AR	750	75.0	56.0	3.5
MKS3004F	750	90.0	60.0	5.0
MKS3504F	1250	100.0	67.0	4.0
MKS4504F	1450	120.0	82.0	8.0
MKS5504F	1450	128.0	82.0	10.0
MKS6504F	1450	138.0	82.0	16.5



- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

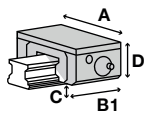
▶ RAIL TYPE: RA

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	RA..GM, RA..EM, RA..AN, RA..BN	⌚		
25	RA..AN, RA..BN	UBPS2504FS1	PUB25-4	40
25	RA..AL, RA..BL, RA..EM, RA..GM	UBPS2504FS1		36
30	RA..AL, RA..BL, RA..EM, RA..GM	UBPS3004FS1		42
30	RA..AN, RA..BN	UBPS3004FS1	PUB30-3	45
35	RA..AN, RA..BN	UBPS3504FS1	PUB35-7	55
35	RA..AN, RA..BN	UBPS3504FS1L	PUBL35-7	55
35	RA..AL, RA..BL, RA..EM, RA..GM	UBPS3504FS1		48
35	RA..AL, RA..BL, RA..EM, RA..GM	UBPS3504FS1L		48
45	RA..AL, RA..BL, RA..EM, RA..GM	UBPS4504FS1L		60
45	RA..AN, RA..BN	UBPS4504FS1L	PUBL45-10	70
55	RA..AL, RA..BL, RA..EM, RA..GM	UBPS5504FS1L	PUBL55-3	70
55	RA..AN, RA..BN	UBPS5504FS1L	PUBL55-13	80
65	RA..AN, RA..BN, RA..EM, RA..GM	UBPS6504FS1L		90

▶ Series UBPS

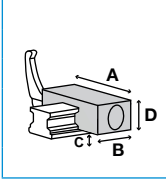
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2504FS1	1500	70	99.0	5.0
UBPS3004FS1	2500	90	109.0	5.0
UBPS3504FS1	2800	100	109.0	6.0
UBPS3504FS1L	3200	100	152.0	6.0
UBPS4504FS1L	5200	120	197.0	8.0
UBPS5504FS1L	7700	140	197.0	7.0
UBPS6504FS1L	7700	170	197.0	11.5



► RAIL TYPE: SH

Series HK manual Clamping bistable

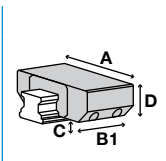
rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	SAH..EMZ, SAH..GMZ	HK1501A		24.0
15	SAH..ANZ, SAH..BNZ	HK1501A	PHK15-4	28.0
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ	HK2001A		30.0
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	HK2501A		36.0
25	SAH..ANZ, SAH..BNZ	HK2501A	PHK25-4	40.0
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	HK3001A		42.0
30	SAH..ANZ, SAH..BNZ	HK3001A	PHK30-3	45.0
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	HK3501A		48.0
35	SAH..ANZ, SAH..BNZ	HK3501A	PMK35-7	55.0



► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0

Series KBH hydraulic Clamping and braking NO

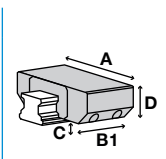
rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	SAH..EMZ, SAH..GMZ	☞		
30	SAH..EMZ, SAH..GMZ	☞		
35	SAH..EMZ, SAH..GMZ	KBH3504BS1		48.0



► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3504BS1	5700	100	128.5	8.0

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	SAH..EMZ, SAH..GMZ	KBHS3504BS1A		48



► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3504BS1A	7500	100	155	6.0

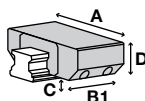
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SH

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type		▶ Series KWH		
			Order No.	Adapter plate*	D [mm]
25	SAH..EMZ, SAH..GMZ		KWH2504BS1		36.0
30	SAH..EMZ, SAH..GMZ		KWH3004BS1		42.0
35	SAH..EMZ, SAH..GMZ		KWH3504BS1		48.0

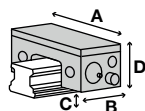
▶ Series KWH					
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]	
KWH2504BS1	2200	70.0	92.0	6.5	
KWH3004BS1	3000	90.0	103.5	7.0	
KWH3504BS1	5700	100.0	120.5	8.0	



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type		▶ Series LBPS		
			Order No.	Adapter plate*	D [mm]
15	SAH..EMZ, SAH..GMZ		LBPS1501AS2		24.0
15	SAH..ANZ, SAH..BNZ		LBPS1501AS2	PLK15-4	28.0
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ, SAH..ANZ, SAH..BNZ		LBPS2001AS2	PLK20-2	30.0
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ		LBPS2501AS2		36.0
25	SAH..ANZ, SAH..BNZ		LBPS2501AS2	PLK25-6	40.0
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ		LBPS3001AS2		42.0
30	SAH..ANZ, SAH..BNZ		LBPS3001AS2	PLK30-3	45.0
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ		LBPS3501AS2		48.0
35	SAH..ANZ, SAH..BNZ		LBPS3501AS2	PLK35-7	55.0

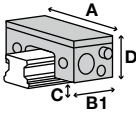
▶ Series LBPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
LBPS1501AS2	400	34.0	76.0	3.30	
LBPS2001AS2	600	44.0	81.0	3.50	
LBPS2501AS2	750	48.0	86.0	7.50	
LBPS3001AS2	1200	60.0	109.5	7.00	
LBPS3501AS2	1900	70.0	124.5	7.50	



► RAIL TYPE: SH

Series LKP pneumatic Clamping NO

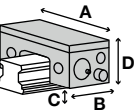
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	SAH..EMZ, SAH..GMZ	LKP1501AS2		24.0
15	SAH..ANZ, SAH..BNZ	LKP1501AS2	PLK15-4	28.0
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ, SAH..ANZ, SAH..BNZ	LKP2001AS2	PLK20-2	30.0
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	LKP2501AS2		36.0
25	SAH..ANZ, SAH..BNZ	LKP2501AS2	PLK25-6	40.0
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	LKP3001AS2		42.0
30	SAH..ANZ, SAH..BNZ	LKP3001AS2	PLK30-3	45.0
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	LKP3501AS2		48.0
35	SAH..ANZ, SAH..BNZ	LKP3501AS2	PLK35-7	55.0



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	SAH..EMZ, SAH..GMZ	LKPS1501AS2		24.0
15	SAH..ANZ, SAH..BNZ	LKPS1501AS2	PLK15-4	28.0
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ, SAH..ANZ, SAH..BNZ	LKPS2001AS2	PLK20-2	30.0
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	LKPS2501AS2		36.0
25	SAH..ANZ, SAH..BNZ	LKPS2501AS2	PLK25-6	40.0



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	7.50

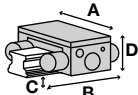
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SH

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate *	D [mm]
20	SAH..EMZ, SAH..GMZ, SAH..ANZ, SAH..BNZ	MBPS2004BS1		30
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS2504BS1		36
25	SAH..ANZ, SAH..BNZ	MBPS2504BS1	PMB25-4	40
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS3004BS1		42
30	SAH..ANZ, SAH..BNZ	MBPS3004BS1	PMB30-3	45
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MBPS3504BS1		48
35	SAH..ANZ, SAH..BNZ	MBPS3504BS1	PMB35-7	55

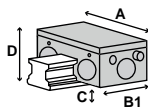
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2004BS1	750	66	94.0	4.2
MBPS2504BS1	1200	75	94.0	6.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3504BS1	2000	100	106.0	9.5



Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
15	SAH..EMZ, SAH..GMZ	MK1501A		24.0
15	SAH..ANZ, SAH..BNZ	MK1501A	PMK15-4	28.0
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ	MK2001A		30.0
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MK2501A		36.0
25	SAH..ANZ, SAH..BNZ	MK2501A	PMK25-4	40.0
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MK3001A		42.0
30	SAH..ANZ, SAH..BNZ	MK3001A		45.0
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MK3501A		48.0
35	SAH..ANZ, SAH..BNZ	MK3501A	PMK35-7	55.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5

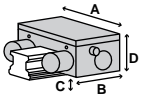


► RAIL TYPE: SH

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	SAH..EMZ, SAH..GMZ	MKS1501A		24.0
15	SAH..ANZ, SAH..BNZ	MKS1501A	PMK15-4	28.0
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ	MKS2001A		30.0
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MKS2501A		36.0
25	SAH..ANZ, SAH..BNZ	MKS2501A	PMK25-4	40.0
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MKS3001A		42.0
30	SAH..ANZ, SAH..BNZ	MKS3001A		45.0
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	MKS3501A		48.0
35	SAH..ANZ, SAH..BNZ	MKS3501A	PMK35-7	55.0

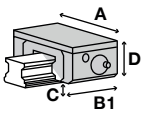
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	SAH..ALZ, SAH..BLZ, SAH..EMZ, SAH..GMZ	Ⓢ		
25	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ, SAH..ANZ, SAH..BNZ	Ⓢ		
30	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	UBPS3004BS1		42
30	SAH..ANZ, SAH..BNZ	UBPS3004BS1	PUB30-3	45
35	SAH..EMZ, SAH..GMZ, SAH..ALZ, SAH..BLZ	UBPS3504BS1		48
35	SAH..ANZ, SAH..BNZ	UBPS3504BS1	PUB35-7	55

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3004BS1	1750	90	109.0	5.0
UBPS3504BS1	2500	100	109.0	6.0



- ▶ *Adapter plate and clamping element must be ordered together
 - ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
 - ▶ Bi-stable = Elements remain in current position
 - ▶ NO = Elements are closed when pressurized
 - ▶ NC = Elements are opened when pressurized
-

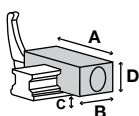
► RAIL TYPE: BG

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	BGCH..FN, BGCH..FL, BGCS..BS, BGCS..BN, BGCS..BL, BGXH..FN, BGXH..FL, BGXS..BS, BGXS..BN, BGXS..BL	HK1501A	PHK15-2	24.0
15	BGCH..BN, BGXH..BN	HK1501A	PHK15-6	28.0
20	BGCS..BN, BGCS..BS, BGXS..BN	HK2001A		28.0
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	HK2001A	PHK20-2	30.0
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	HK2501A		33.0
25	BGCH..FE, BGCH..FL, BGCH..FN, BGCX..BE, BGCX..BL, BGCX..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN	HK2501A	PHK25-4	36.0
25	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	HK2501A	PHK25-8	40.0
30	BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE, BGXH..FN, BGXH..FL, BGXH..FE, BGCH..FN, BGCH..FL, BGCH..FE	HK3001A		42.0
30	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	HK3001A	PHK30-3	45.0
35	BGXH..FE, BGXH..FL, BGXH..FN, BGCH..FN, BGCH..FL, BGCH..FE, BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE	HK3501A	PMK35-4	48.0
35	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	HK3501A	PMK35-11	55.0
45	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXH..FE, BGXH..FL, BGXH..FN, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS	HK4501A	PHK45-6	60.0
45	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	HK4501A	PHK45-12	70.0
55	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXH..FE, BGXH..FL, BGXH..FN, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS	HK5501A	PHK55-4	70.0
55	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	HK5501A	PHK55-14	80.0

► Series HK

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	4.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	12.0
HK5501A	2000	140.0	49.0	17.0



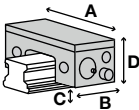
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: BG

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate *	D [mm]
15	BGCH..FN, BGCH..FL, BGCS..BS, BGCS..BN, BGCS..BL, BGXH..FN, BGXH..FL, BGXS..BS, BGXS..BN, BGXS..BL	LBPS1501AS2		24.0
15	BGCH..BN, BGXH..BN	LBPS1501AS2	PLK15-4	28.0
20	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	LBPS2001AS2		28.0
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	LBPS2001AS2	PLK20-2	30.0
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	LBPS2501AS2		33.0
25	BGCH..FE, BGCH..FL, BGCH..FN, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN	LBPS2501AS2	PLK25-2	36.0
25	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	LBPS2501AS2	PLK25-6	40.0
35	BGXH..FE, BGXH..FL, BGXH..FN, BGCH..FN, BGCH..FL, BGCH..FE, BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE	LBPS3501AS2		48.0
35	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	LBPS3501AS2	PLK35-7	55.0
45	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	Ⓢ		
55	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	Ⓢ		

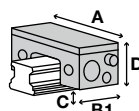
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3501AS2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
15	BGCH..FN, BGCH..FL, BGCS..BS, BGCS..BN, BGCS..BL, BGXH..FN, BGXH..FL, BGXS..BS, BGXS..BN, BGXS..BL	LKP1501AS2		24.0
15	BGCH..BN, BGXH..BN	LKP1501AS2	PLK15-4	28.0
20	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	LKP2001AS2		28.0
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	LKP2001AS2	PLK20-2	30.0
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	LKP2501AS2		33.0
25	BGCH..FE, BGCH..FL, BGCH..FN, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN	LKP2501AS2	PLK25-2	36.0
25	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	LKP2501AS2	PLK25-6	40.0
35	BGXH..FE, BGXH..FL, BGXH..FN, BGCH..FN, BGCH..FL, BGCH..FE, BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE	LKP3501AS2		48.0
35	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	LKP3501AS2	PLK35-7	55.0
45	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	Ⓢ		
55	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	Ⓢ		

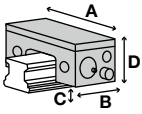
▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3501AS2	2500	70.0	68.50	7.50



► RAIL TYPE: BG

Series LKPS pneumatic Clamping NC

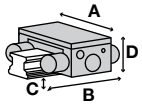
rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	BGCH..FN, BGCH..FL, BGCS..BS, BGCS..BN, BGCS..BL, BGXH..FN, BGXH..FL, BGXS..BS, BGXS..BN, BGXS..BL	LKPS1501AS2		24.0
15	BGCH..BN, BGXH..BN	LKPS1501AS2	PLK15-4	28.0
20	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	LKPS2001AS2		28.0
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	LKPS2001AS2	PLK20-2	30.0
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	LKPS2501AS2		33.0
25	BGCH..FE, BGCH..FL, BGCH..FN, BGCX..BE, BGCX..BL, BGCX..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN	LKPS2501AS2	PLK25-2	36.0
25	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	LKPS2501AS2	PLK25-6	40.0
45	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	Ⓢ		
55	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	Ⓢ		



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
20	BGCS..BN, BGCS..BS, BGXS..BN	Ⓢ		
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	MBPS2001CS1		30
30	BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE, BGXH..FN, BGXH..FL, BGXH..FE	MBPS3004BS1		42
30	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	MBPS3004BS1	PMB30-3	45



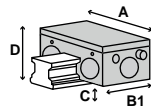
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2001CS1	750	66	94.0	4.2
MBPS3004BS1	1300	90	98.2	7.0

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: BG

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	BGCH..FN, BGCH..FL, BGCS..BS, BGCS..BN, BGCS..BL, BGXH..FN, BGXH..FL, BGXS..BS, BGXS..BN, BGXS..BL	MK1501A		24.0
15	BGCH..BN, BGXH..BN	MK1501A	PMK15-4	28.0
20	BGCS..BN, BGCS..BS, BGXS..BN	MK2001A		28.0
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	MK2001A		30.0
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	MK2501A		33.0
25	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN	MK2501A	PMK25-2	36.0
25	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	MK2501A	PMK25-6	40.0
30	BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE, BGXH..FN, BGXH..FL, BGXH..FE, BGCH..FN, BGCH..FL, BGCH..FE	MK3001A		42.0
30	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	MK3001A	PMK30-3	45.0
35	BGXH..FE, BGXH..FL, BGXH..FN, BGCH..FN, BGCH..FL, BGCH..FE, BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE	MK3501A	PMK35-4	48.0
35	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	MK3501A	PMK35-11	55.0
45	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXH..FE, BGXH..FL, BGXH..FN, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS	MK4501A	PMK45-6	60.0
45	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	MK4501A	PMK45-16	70.0
55	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXH..FE, BGXH..FL, BGXH..FN, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS	MK5501A	PMK55-7	70.0
55	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	MK5501A	PMK55-17	80.0



▶ Series MK

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	7.5
MK4501A	2250	120.0	49.0	10.5
MK5501A	2250	128.0	49.0	14.5

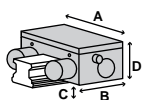
TRACK MANUFACTURER



► RAIL TYPE: BG

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	BGCH..FN, BGCH..FL, BGCS..BS, BGCS..BN, BGCS..BL, BGXH..FN, BGXH..FL, BGXS..BS, BGXS..BN, BGXS..BL	MKS1501A		24.0
15	BGCH..BN, BGXH..BN	MKS1501A	PMK15-4	28.0
20	BGCS..BN, BGCS..BS, BGXS..BN	MKS2001A		28.0
20	BGCH..BL, BGCH..BN, BGCH..FN, BGGS..BN, BGXH..BL, BGXH..BN, BGXH..FL, BGXH..FN	MKS2001A		30.0
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS	MKS2501A		33.0
25	BGCH..FE, BGCH..FL, BGCH..FN, BGCX..BE, BGCX..BL, BGCX..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN	MKS2501A	PMK25-2	36.0
25	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	MKS2501A	PMK25-6	40.0
30	BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE, BGXH..FN, BGXH..FL, BGXH..FE, BGCH..FN, BGCH..FL, BGCH..FE	MKS3001A		42.0
30	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	MKS3001A	PMK30-3	45.0
35	BGXH..FE, BGXH..FL, BGXH..FN, BGCH..FN, BGCH..FL, BGCH..FE, BGCS..BS, BGCS..BN, BGCS..BL, BGCS..BE, BGXS..BS, BGXS..BN, BGXS..BL, BGXS..BE	MKS3501A	PMK35-4	48.0
35	BGCH..BN, BGCH..BL, BGCH..BE, BGXH..BN, BGXH..BL, BGXH..BE	MKS3501A	PMK35-11	55.0
45	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXH..FE, BGXH..FL, BGXH..FN, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS	MKS4501A	PMK45-6	60.0
45	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	MKS4501A	PMK45-16	70.0
55	BGCH..FE, BGCH..FL, BGCH..FN, BGCS..BE, BGCS..BL, BGCS..BN, BGCS..BS, BGXH..FE, BGXH..FL, BGXH..FN, BGXS..BE, BGXS..BL, BGXS..BN, BGXS..BS	MKS5501A	PMK55-7	70.0
55	BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN	MKS5501A	PMK55-17	80.0



► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	7.5
MKS4501A	1450	120.0	82.0	10.5
MKS5501A	1450	128.0	82.0	14.5

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	BGCS..BN, BGCS..BS, BGXS..BN, BGXS..BS, BGCH..FE, BGCH..FL, BGCH..FN, BGCX..BE, BGCX..BL, BGCX..BN, BGXH..FE, BGXH..FL, BGXX..BE, BGXX..BL, BGXX..BN, BGCH..BE, BGCH..BL, BGCH..BN, BGXH..BE, BGXH..BL, BGXH..BN			



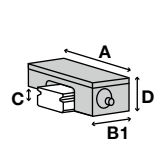
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MB

Series MCP pneumatic Clamping NO

rail size	▶ Carriage type		▶ Series MCP		
			Order No.	Adapter plate*	D [mm]
9	MBC-SN, MBX-SN		MCP0914L		10.0
12	MBC-SN, MBX-SN		MCP1214L		13.0
15	MBC-SN, MBX-SN		MCP1514L		16.0

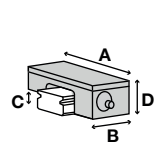
▶ Series MCP					
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]	
MCP1214L	280	37.5	34.0	2.95	
MCP1514L	320	41.5	34.0	3.95	
MCP0914L	130	32.5	34.0	2.15	



Series MCPS pneumatic Clamping NC

rail size	▶ Carriage type		▶ Series MCPS		
			Order No.	Adapter plate*	D [mm]
9	MBC-SN, MBX-SN		MCPS0914L		10.0
12	MBC-SN, MBX-SN		MCPS1214L		13.0
15	MBC-SN, MBX-SN		MCPS1514L		16.0

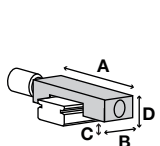
▶ Series MCPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
MCPS1214L	240	37.5	52.5	2.95	
MCPS1514L	320	41.5	52.5	3.95	
MCPS0914L	80	32.5	52.5	2.15	



Series miniHK manual Clamping bistable

rail size	▶ Carriage type		▶ Series miniHK		
			Order No.	Adapter plate*	D [mm]
9	MBC-SN, MBX-SN		HK0900M		10.0
12	MBC-SN, MBX-SN		HK1200M		13.0
15	MBC-SN, MBX-SN		HK1500M		16.0

▶ Series miniHK					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	
HK1200M	150	27.0	19.0	3.5	
HK1500M	180	32.0	20.0	5.0	
HK0900M	100	20.0	17.0	2.7	

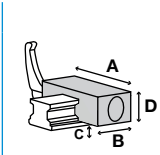


► RAIL TYPE: MSA

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
30	MSA..A, MSA..LA, MSA..E, MSA..LE	HK3001A		42.0
30	MSA..S, MSA..LS	HK3001A	PHK30-3	45.0

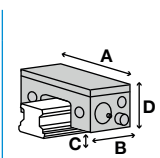
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK3001A	2000	90.0	39.0	12.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
30	MSA..A, MSA..LA, MSA..E, MSA..LE	LBPS3001AS2		42.0
30	MSA..S, MSA..LS	LBPS3001AS2	PLK30-3	45.0

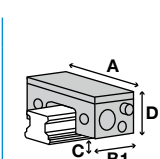
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3001AS2	1200	60.0	109.5	7.00



Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
30	MSA..A, MSA..LA, MSA..E, MSA..LE	LKP3001AS2		42.0
30	MSA..S, MSA..LS	LKP3001AS2	PLK30-3	45.0

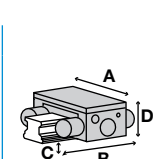
► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3001AS2	1800	60.0	66.50	7.00



Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
30	MSA..A, MSA..LA, MSA..E, MSA..LE	MBPS3004BS1		42
30	MSA..S, MSA..LS	MBPS3004BS1	PMB30-3	45

► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS3004BS1	1300	90	98.2	7.0



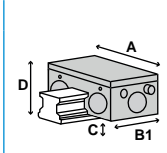
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MSA

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
30	MSA..A, MSA..LA, MSA..E, MSA..LE	MK3001A		42.0
30	MSA..S, MSA..LS	MK3001A	PMK30-3	45.0

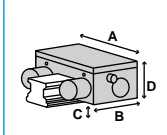
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK3001A	1750	90.0	39.0	7.0



Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
30	MSA..A, MSA..LA, MSA..E, MSA..LE	MKS3001A		42.0
30	MSA..S, MSA..LS	MKS3001A	PMK30-3	45.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS3001A	1050	90.0	68.0	7.0

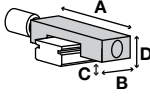


► RAIL TYPE: MSC

Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	MSC-M, MSC-LM	HK0700M		8.0
9	MSC-M, MSC-LM	HK0900M		10.0
12	MSC-M, MSC-LM	HK1200M		13.0
15	MSC-M, MSC-LM	HK1500M		16.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7



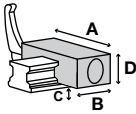
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MSR

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
30	MSR..E, MSR..LE	HK3014E		42.0
30	MSR..S, MSR..LS	HK3014E	PHK30-3	45.0
35	MSR..E, MSR..LE	HK3504F		48.0
35	MSR..S, MSR..LS	HK3504F	PMK35-7	55.0

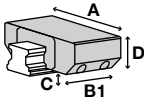
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK3014E	2000	90.0	39.0	9.0
HK3504F	2000	100.0	39.0	7.0



Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
45	MSR..E, MSR..LE	KBH4514ES1		60.0
45	MSR..S, MSR..LS	KBH4514ES3	PKW45-2-01	68.0
55	MSR..E, MSR..LE	KBH5514ES1		70.0
65	MSR..LE	KBH6514ES1		90.0

▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH4514ES1	9900	120	163.0	10.0
KBH4514ES3	7400	86	163.0	8.0
KBH5514ES1	13700	140	192.0	13.0
KBH6514ES1	22700	170	235.0	14.0



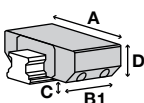
Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
45	MSR..E, MSR..LE			

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
45	MSR..E, MSR..LE	KWH4514ES1		60.0
45	MSR..S, MSR..LS	KWH4514ES3	PKW45-2-01	68.0
55	MSR..E, MSR..LE	KWH5514ES1		70.0
65	MSR..LE	KWH6514ES1		90.0

▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH4514ES1	9900	120.0	155.0	10.0
KWH4514ES3	7400	86.0	155.0	8.0
KWH5514ES1	13700	140.0	184.0	13.0
KWH6514ES1	22700	170.0	227.0	14.0

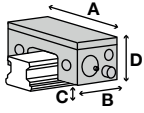


► RAIL TYPE: MSR

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
30	MSR..E, MSR..LE	LBPS3014ES2		42.0
30	MSR..S, MSR..LS	LBPS3014ES2	PLK30-3	45.0
35	MSR..E, MSR..LE	LBPS3514ES2		48.0
35	MSR..S, MSR..LS	LBPS3514ES2	PLK35-7	55.0

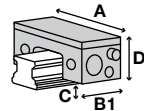
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3014ES2	1200	60.0	109.5	7.00
LBPS3514ES2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
30	MSR..E, MSR..LE	LKP3014ES2		42.0
30	MSR..S, MSR..LS	LKP3014ES2	PLK30-3	45.0
35	MSR..E, MSR..LE	LKP3514ES2		48.0
35	MSR..S, MSR..LS	LKP3514ES2	PLK35-7	55.0

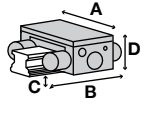
► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3014ES2	1800	60.0	66.50	7.00
LKP3514ES2	2500	70.0	68.50	7.50



Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
45	MSR..E, MSR..LE	MBPS4514ES1		60
45	MSR..S, MSR..LS	MBPS4514ES1	PMB45-10	70

► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS4514ES1	3600	120	113.2	8.0



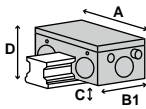
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MSR

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
30	MSR..E, MSR..LE	MK3014E		42.0
30	MSR..S, MSR..LS	MK3014E	PMK30-3	45.0
35	MSR..E, MSR..LE	MK3514E		48.0
35	MSR..S, MSR..LS	MK3514E	PMK35-7	55.0

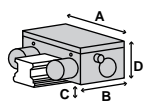
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK3014E	1200	90.0	39.0	5.0
MK3514E	2000	100.0	39.0	4.0



Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
30	MSR..E, MSR..LE	MKS3014E		42.0
30	MSR..S, MSR..LS	MKS3014E	PMK30-3	45.0
35	MSR..E, MSR..LE	MKS3514E		48.0
35	MSR..S, MSR..LS	MKS3514E	PMK35-7	55.0

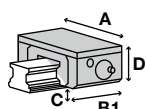
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS3014E	750	90.0	60.0	5.0
MKS3514E	1250	100.0	67.0	4.0



Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	MSR..E, MSR..LE	UBPS2514ES1		36
25	MSR..S, MSR..LS	UBPS2514ES1	PUB25-4	40
35	MSR..E, MSR..LE	UBPS3514ES1		48
35	MSR..S, MSR..LS	UBPS3514ES1	PUB35-7	55
45	MSR..E, MSR..LE	UBPS4514ES1L		60
45	MSR..S, MSR..LS	UBPS4514ES1L	PUBL45-10	70
55	MSR..E, MSR..LE	UBPS5514ES1L		70
55	MSR..S, MSR..LS	UBPS5514ES1L	PUBL55-10	80
65	MSR..LE, MSR..LS	UBPS6514ES1L		90

▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2514ES1	1500	70	99.0	5.0
UBPS3514ES1	2800	100	109.0	6.0
UBPS4514ES1L	5200	120	197.0	8.0
UBPS5514ES1L	7700	140	197.0	10.0
UBPS6514ES1L	7700	170	197.0	11.5

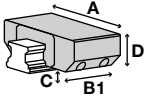


► RAIL TYPE: SME

Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
45	SME..EA, SME..LEA, SME..SB, SME..LSB	KBHS4514FS1A		60

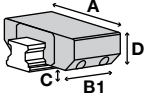
► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS4514FS1A	9000	120	180	8.0



Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
30	SME..EA, SME..LEA, SME..LSB, SME..SB	KWH3014FS1		42.0

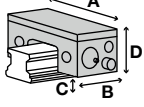
► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH3014FS1	3000	90.0	103.5	7.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
30	SME..EA, SME..LEA, SME..LSB, SME..SB	LBPS3001AS2		42.0
30	SME..SA, SME..LSA	LBPS3001AS2	PLK30-3	45.0
35	SME..SA, SME..LSA	LBPS3501AS2	PLK35-7	55.0
35	SME..EA, SME..LEA, SME..SB, SME..LSB	LBPS3501AS2		48.0

► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



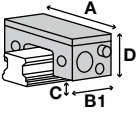
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SME

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
30	SME..EA, SME..LEA, SME..LSB, SME..SB	LKP3001AS2		42.0
30	SME..SA, SME..LSA	LKP3001AS2	PLK30-3	45.0
35	SME..SA, SME..LSA	LKP3501AS2	PLK35-7	55.0
35	SME..EA, SME..LEA, SME..SB, SME..LSB	LKP3501AS2		48.0

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

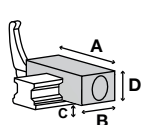


► RAIL TYPE: SMR

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
30	SMR..E, SMR..LE	HK3014E		42.0
30	SMR..S, SMR..LS	HK3014E	PHK30-3	45.0
35	SMR..E, SMR..LE	HK3504F		48.0
35	SMR..S, SMR..LS	HK3504F	PMK35-7	55.0

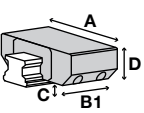
► Series HK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
HK3014E	2000	90.0	22.0	9.0
HK3504F	2000	100.0	24.0	7.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
45	SMR..E, SMR..LE	KBH4514ES1		60.0
45	SMR..S, SMR..LS	KBH4514ES3	PKW45-2-01	68.0
55	SMR..E, SMR..LE	KBH5514ES1		70.0
65	SMR..LE	KBH6514ES1		90.0

► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH4514ES1	9900	120	163.0	10.0
KBH4514ES3	7400	86	163.0	8.0
KBH5514ES1	13700	140	192.0	13.0
KBH6514ES1	22700	170	235.0	14.0



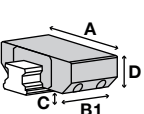
Series KBHS hydraulic Clamping and braking NC

rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
45	SMR..E, SMR..LE			

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
45	SMR..E, SMR..LE	KWH4514ES1		60.0
45	SMR..S, SMR..LS	KWH4514ES3	PKW45-2-01	68.0
55	SMR..E, SMR..LE	KWH5514ES1		70.0
65	SMR..LE	KWH6514ES1		90.0

► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH4514ES1	9900	120.0	155.0	10.0
KWH4514ES3	7400	86.0	155.0	8.0
KWH5514ES1	13700	140.0	184.0	13.0
KWH6514ES1	22700	170.0	227.0	14.0



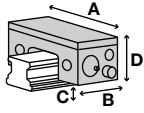
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SMR

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
30	SMR..E, SMR..LE	LBPS3014ES2		42.0
30	SMR..S, SMR..LS	LBPS3014ES2	PLK30-3	45.0
35	SMR..E, SMR..LE	LBPS3514ES2		48.0
35	SMR..S, SMR..LS	LBPS3514ES2	PLK35-7	55.0

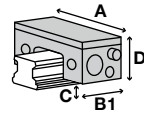
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3014ES2	1200	60.0	109.5	7.00
LBPS3514ES2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
30	SMR..E, SMR..LE	LKP3014ES2		42.0
30	SMR..S, SMR..LS	LKP3014ES2	PLK30-3	45.0
35	SMR..E, SMR..LE	LKP3514ES2		48.0
35	SMR..S, SMR..LS	LKP3514ES2	PLK35-7	55.0

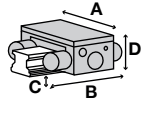
▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3014ES2	1800	60.0	66.50	7.00
LKP3514ES2	2500	70.0	68.50	7.50



Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
45	SMR..E, SMR..LE	MBPS4514ES1		60
45	SMR..S, SMR..LS	MBPS4514ES1	PMB45-10	70

▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS4514ES1	3600	120	113.2	8.0

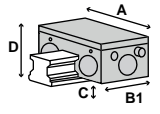


► RAIL TYPE: SMR

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
30	SMR..E, SMR..LE	MK3014E		42.0
30	SMR..S, SMR..LS	MK3014E	PMK30-3	45.0
35	SMR..E, SMR..LE	MK3514E		48.0
35	SMR..S, SMR..LS	MK3514E	PMK35-7	55.0

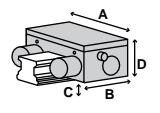
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK3014E	1200	90.0	39.0	5.0
MK3514E	2000	100.0	39.0	4.0



Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
30	SMR..E, SMR..LE	MKS3014E		42.0
30	SMR..S, SMR..LS	MKS3014E	PMK30-3	45.0
35	SMR..E, SMR..LE	MKS3514E		48.0
35	SMR..S, SMR..LS	MKS3514E	PMK35-7	55.0

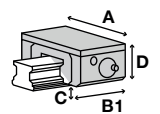
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS3014E	750	90.0	60.0	5.0
MKS3514E	1250	100.0	67.0	4.0



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	SMR..E, SMR..LE	UBPS2514ES1		36
25	SMR..S, SMR..LS	UBPS2514ES1	PUB25-4	40
35	SMR..E, SMR..LE	UBPS3514ES1		48
35	SMR..S, SMR..LS	UBPS3514ES1	PUB35-7	55
45	SMR..E, SMR..LE	UBPS4514ES1L		60
45	SMR..S, SMR..LS	UBPS4514ES1L	PUBL45-10	70
55	SMR..E, SMR..LE	UBPS5514ES1L		70
55	SMR..S, SMR..LS	UBPS5514ES1L	PUBL55-10	80
65	SMR..LE, SMR..LS	UBPS6514ES1L		90

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2514ES1	1500	70	99.0	5.0
UBPS3514ES1	2800	100	109.0	6.0
UBPS4514ES1L	5200	120	197.0	8.0
UBPS5514ES1L	7700	140	197.0	10.0
UBPS6514ES1L	7700	170	197.0	11.5

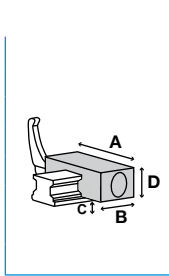


- ▶ *Adapter plate and clamping element must be ordered together
 - ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
 - ▶ Bi-stable = Elements remain in current position
 - ▶ NO = Elements are closed when pressurized
 - ▶ NC = Elements are opened when pressurized
-

► RAIL TYPE: MR

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	MRS..W	HK1501A	PHK15-4	28.0
15	MRS, MRT..W, MRT..SW	HK1501A		24.0
20	MRT..SW, MRT..W	HK2006A		28.0
20	MRS, MRS..L, MRS..LW, MRS..W	HK2006A	PHK20-2	30.0
25	MRT, MRT..LW, MRT..S, MRT..SW, MRT..W	HK2501A		33.0
25	MRS, MRS..L, MRZ..W	HK2501A		36.0
25	MRS..LW, MRS..W	HK2501A	PHK25-4	40.0
30	MRS, MRS..L, MRT..W, MRT..SW, MRT..LW	HK3001A		42.0
30	MRS..W, MRS..LW	HK3001A	PHK30-3	45.0
35	MRS, MRS..L, MRT..LW, MRT..SW, MRT..W	HK3501A		48.0
35	MRS..W, MRS..LW	HK3501A	PMK35-7	55.0
45	MRS, MRS..L, MRS..W, MRT..LW	HK4501A		60.0
45	MRS..LW, MRT..W	HK4501A	PHK45-10	70.0
55	MCS, MCS..L	HK5501A		70.0
55	MCS..LW, MCS..W	HK5501A	PHK55-10	80.0
55	MCT..W, MCT..LW	⊗		



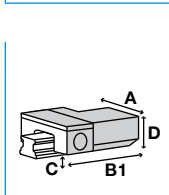
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2006A	1200	60.0	24.0	5.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
25	MRS, MRS..L, MRZ..W, MRS..LW, MRS..W	⊗		

Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
25	MRT, MRT..LW, MRT..S, MRT..SW, MRT..W, MRT..C, MRT..SC	⊗		
25	MRS, MRS..L, MRS..C, MRS..LC	LCE2501AS1	PMK25-2	36.0
25	MRS..LW, MRS..W	LCE2501AS1	PMK25-6	40.0



► Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE2501AS1	1100	75.0	135.0	6.00

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
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- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MR

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
25	MRS, MRS..L, MRZ..W, MRS..LW, MRS..W			

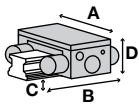
Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate *	D [mm]
25	MRS, MRS..L, MRZ..W, MRS..LW, MRS..W			

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate *	D [mm]
15	MRS..W, MRS, MRT..W, MRT..SW			
20	MRT..SW, MRT..W, MRS, MRS..L, MRS..LW, MRS..W			
25	MRT, MRT..LW, MRT..S, MRT..SW, MRT..W			
25	MRS, MRS..L, MRZ..W	MBPS2504BS1		36
25	MRS..LW, MRS..W	MBPS2504BS1	PMB25-4	40
30	MRS, MRS..L, MRT..W, MRT..SW, MRT..LW	MBPS3004BS1		42
30	MRS..W, MRS..LW	MBPS3004BS1	PMB30-3	45
35	MRS, MRS..L, MRT..LW, MRT..SW, MRT..W	MBPS3504BS1		48
35	MRS..W, MRS..LW	MBPS3504BS1	PMB35-7	55
45	MRS, MRS..L, MRT..LW, MRT..W	MBPS4504BS1		60
45	MRS..W, MRS..LW	MBPS4504BS1	PMB45-10	70
55	MCS, MCS..L, MCS..LW, MCS..W, MCT..W, MCT..LW			

▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2504BS1	1200	75	94.0	6.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3504BS1	2000	100	106.0	9.5
MBPS4504BS1	2600	120	108.7	15.0

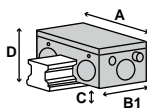


► RAIL TYPE: MR

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	MRS..W	MK1501A	PMK15-4	28.0
15	MRS, MRT..W, MRT..SW	MK1501A		24.0
20	MRT..SW, MRT..W	MK2001A		28.0
20	MRS, MRS..L, MRS..LW, MRS..W	MK2001A	PMK20-2	30.0
25	MRS, MRS..L, MRZ..W	MK2501A		36.0
25	MRS..LW, MRS..W	MK2501A	PMK25-4	40.0
30	MRS, MRS..L, MRT..W, MRT..SW, MRT..LW	MK3001A		42.0
30	MRS..W, MRS..LW	MK3001A	PMK30-3	45.0
35	MRS, MRS..L, MRT..LW, MRT..SW, MRT..W	MK3501A		48.0
35	MRS..W, MRS..LW	MK3501A	PMK35-7	55.0
45	MRS, MRS..L, MRT..LW, MRT..W	MK4501A		60.0
45	MRS..W, MRS..LW	MK4501A	PMK45-10	70.0
55	MCS, MCS..L	MK5501A		70.0
55	MCS..LW, MCS..W	MK5501A	PMK55-10	80.0

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	11.5
MK4501A	2250	120.0	49.0	16.5
MK5501A	2250	128.0	49.0	21.5



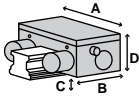
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MR

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
15	MRS..W	MKS1501A	PMK15-4	28.0
15	MRS, MRT..W, MRT..SW	MKS1501A		24.0
20	MRT..SW, MRT..W	MKS2001A		28.0
20	MRS, MRS..L, MRS..LW, MRS..W	MKS2001A	PMK20-2	30.0
25	MRS, MRS..L, MRZ..W	MKS2501A		36.0
25	MRS..LW, MRS..W	MKS2501A	PMK25-4	40.0
30	MRS, MRS..L, MRT..W, MRT..SW, MRT..LW	MKS3001A		42.0
30	MRS..W, MRS..LW	MKS3001A	PMK30-3	45.0
35	MRS, MRS..L, MRT..LW, MRT..SW, MRT..W	MKS3501A		48.0
35	MRS..W, MRS..LW	MKS3501A	PMK35-7	55.0
45	MRS, MRS..L, MRT..LW, MRT..W	MKS4501A		60.0
45	MRS..W, MRS..LW	MKS4501A	PMK45-10	70.0
55	MCS, MCS..L	MKS5501A		70.0
55	MCS..LW, MCS..W	MKS5501A	PMK55-10	80.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	11.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501A	1450	128.0	82.0	21.5

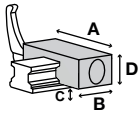


► RAIL TYPE: BMS

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	BMW..A, BMW..F	HK1503BM		24.0
15	BMW..C	HK1503BM	PHK15-4	28.0
20	BMW..A, BMW..B, BMW..C, BMW..D	HK2003BM		30.0
25	BMW..A, BMW..B, BMW..F, BMW..G	HK2503BM		36.0
25	BMW..C, BMW..D, BMW..E	HK2503BM	PHK25-4	40.0
30	BMW..A, BMW..B, BMW..F, BMW..G	HK3003BM		42.0
30	BMW..C, BMW..D, BMW..E	HK3003BM	PHK30-3	45.0
35	BMW..A, BMW..B, BMW..F, BMW..G	HK3503BM		48.0
35	BMW..C, BMW..D, BMW..E	HK3503BM	PMK35-7	55.0
45	BMW..A, BMW..B	HK4503BM		60.0
45	BMW..C, BMW..D	HK4503BM	PHK45-10	70.0

► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1503BM	1200	47.0	24.0	5.0
HK2003BM	1200	60.0	24.0	7.0
HK2503BM	1200	70.0	30.0	7.0
HK3003BM	2000	90.0	39.0	9.0
HK3503BM	2000	100.0	39.0	7.0
HK4503BM	2000	120.0	44.0	12.0



Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
30	BMW..A, BMW..A, BMW..A, BMW..A, BMW..B, BMW..B, BMW..B, BMW..B, BMW..F, BMW..F, BMW..F, BMW..F, BMW..G, BMW..G, BMW..G, BMW..G, BMW..C, BMW..C, BMW..C, BMW..C, BMW..D, BMW..D, BMW..D, BMW..D, BMW..E, BMW..E, BMW..E, BMW..E	⊗		
35	BMW..A, BMW..A, BMW..A, BMW..A, BMW..B, BMW..B, BMW..B, BMW..B, BMW..F, BMW..F, BMW..F, BMW..F, BMW..G, BMW..G, BMW..G, BMW..G, BMW..C, BMW..C, BMW..C, BMW..C, BMW..D, BMW..D, BMW..D, BMW..D, BMW..E, BMW..E, BMW..E, BMW..E	⊗		

Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
15	BMW..A, BMW..F, BMW..C	Ⓞ		
20	BMW..A, BMW..B, BMW..C, BMW..D	Ⓞ		
25	BMW..A, BMW..B, BMW..F, BMW..G, BMW..C, BMW..D, BMW..E	Ⓞ		
35	BMW..A, BMW..B, BMW..F, BMW..G, BMW..C, BMW..D, BMW..E	Ⓞ		

Series LKP pneumatic Clamping NO

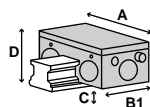
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
30	BMW..A, BMW..B, BMW..F, BMW..G, BMW..C, BMW..D, BMW..E	⊗		
35	BMW..A, BMW..B, BMW..F, BMW..G, BMW..C, BMW..D, BMW..E	⊗		

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: BMS

Series MK pneumatic Clamping NO

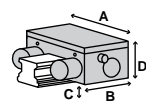
rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	BMW..A, BMW..F	MK1503BM		24.0
15	BMW..C	MK1503BM	PMK15-4	28.0
20	BMW..A, BMW..B, BMW..C, BMW..D	MK2003BM		30.0
25	BMW..A, BMW..B, BMW..F, BMW..G	MK2503B		36.0
25	BMW..C, BMW..D, BMW..E	MK2503B	PMK25-4	40.0
30	BMW..A, BMW..B, BMW..F, BMW..G	MK3003BM		42.0
30	BMW..C, BMW..D, BMW..E	MK3003BM	PMK30-3	45.0
35	BMW..A, BMW..B, BMW..F, BMW..G	MK3503BM		48.0
35	BMW..C, BMW..D, BMW..E	MK3503BM	PMK35-7	55.0
45	BMW..A, BMW..B	MK4503BM		60.0
45	BMW..C, BMW..D	MK4503BM	PMK45-10	70.0



▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1503BM	650	55.0	39.0	3.2
MK2003BM	1000	66.0	39.0	3.0
MK2503B	1200	75.0	35.0	3.5
MK3003BM	1750	90.0	39.0	3.5
MK3503BM	2000	100.0	39.0	4.0
MK4503BM	2250	120.0	49.0	8.0

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	BMW..A, BMW..F	MKS1503BM		24.0
15	BMW..C	MKS1503BM	PMK15-4	28.0
20	BMW..A, BMW..B, BMW..C, BMW..D	MKS2003BM		30.0
25	BMW..A, BMW..B, BMW..F, BMW..G	MKS2503B		36.0
25	BMW..C, BMW..D, BMW..E	MKS2503B	PMK25-4	40.0
30	BMW..A, BMW..B, BMW..F, BMW..G	MKS3003BM		42.0
30	BMW..C, BMW..D, BMW..E	MKS3003BM	PMK30-3	45.0
35	BMW..A, BMW..B, BMW..F, BMW..G	MKS3503BM		48.0
35	BMW..C, BMW..D, BMW..E	MKS3503BM	PMK35-7	55.0
45	BMW..A, BMW..B	MKS4503BM		60.0
45	BMW..C, BMW..D	MKS4503BM	PMK45-10	70.0



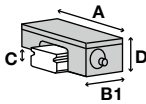
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1503BM	400	55.0	58.0	3.2
MKS2003BM	600	66.0	61.0	3.0
MKS2503B	750	75.0	56.0	3.5
MKS3003BM	1050	90.0	68.0	3.5
MKS3503BM	1250	100.0	67.0	4.0
MKS4503BM	1450	120.0	82.0	8.0

► RAIL TYPE: MN

Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
7	MNN, MNNL, MNNXL, MNNS	Ⓢ		
9	MNN, MNNL, MNNXL, MNNS	MCP0901A		10.0
9	MNN, MNNL	MCP0900MW		12.0
12	MNN, MNNL, MNNXL, MNNS	MCP1201A		13.0
15	MNN, MNNL, MNNXL, MNNS	MCP1504A		16.0
42	MNN, MNNL	MCP1503MW		16.0

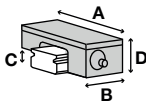
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1504A	320	41.5	34.0	3.95
MCP1503MW	280	68.0	34.0	3.95
MCP0901A	130	32.5	34.0	2.15
MCP0900MW	130	42.3	34.0	2.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
7	MNN, MNNL, MNNXL, MNNS	Ⓢ		
9	MNN, MNNL, MNNXL, MNNS	MCPS0901A		10.0
9	MNN, MNNL	MCPS0900MW		12.0
12	MNN, MNNL, MNNXL, MNNS	MCPS1201A		13.0
15	MNN, MNNL, MNNXL, MNNS	MCPS1504A		16.0
42	MNN, MNNL	MCPS1503MW		16.0

► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1504A	280	41.5	52.5	3.95
MCPS1503MW	240	68.0	52.5	3.95
MCPS0901A	80	32.5	52.5	2.15
MCPS0900MW	80	42.3	52.5	2.95



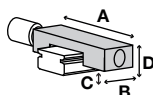
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MN

Series miniHK manual Clamping bistable


rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	MNN, MNNL, MNNXL, MNNS	HK0700M		8.0
9	MNN, MNNL, MNNXL, MNNS	HK0900M		10.0
12	MNN, MNNL, MNNXL, MNNS	HK1200M		13.0
14	MNN, MNNL	HK0700MW		9.0
15	MNN, MNNL, MNNXL, MNNS	HK1500M		16.0
18	MNN, MNNL	HK0900MW		12.0
24	MNN, MNNL	HK1200MW		14.0
42	MNN, MNNL	HK1500MW		16.0

▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK0700MW	65	25.0	12.0	3.0
HK1500M	180	32.0	20.0	5.0
HK0900MW	100	30.0	17.0	4.2
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7

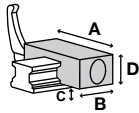


► RAIL TYPE: MRS


Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	HK2501A		36.0
25	MRW..C, MRW..D, MRW..E	HK2501A		40.0
35	MRW..A, MRW..B	HK3503MR		48.0
35	MRW..C, MRW..D, MRW..E	HK3503MR	PMK35-7	55.0
45	MRW..A, MRW..B	HK4503MR		60.0
45	MRW..C, MRW..D	HK4503MR	PHK45-10	70.0
55	MRW..A, MRW..B	HK5503MR		70.0
55	MRW..C, MRW..D	HK5503MR	PHK55-10	80.0
65	MRW..C, MRW..D	HK6501A		90.0
100	MRW..B			

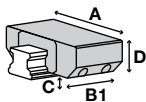
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	13.0
HK3503MR	2000	100.0	39.0	7.0
HK4503MR	2000	120.0	44.0	12.0
HK5503MR	2000	140.0	49.0	19.0
HK6501A	2000	160.0	64.0	24.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B			
35	MRW..A, MRW..B	KBH3503AS1		48.0
35	MRW..C, MRW..D	KBH3503AS3		55.0
45	MRW..A, MRW..B	KBH4503AS1		60.0
45	MRW..C, MRW..D	KBH4503AS3		70.0
55	MRW..A, MRW..B	KBH5503AS1		70.0
55	MRW..C, MRW..D	KBH5503AS3		80.0
65	MRW..C, MRW..D	KBH6503AS3		90.0
65	MRW..B	KBH6503AS1		90.0

► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3503AS1	5700	100	128.5	8.0
KBH3503AS3	5700	70	128.5	8.0
KBH4503AS1	9900	120	163.0	10.0
KBH4503AS3	9900	86	163.0	10.0
KBH5503AS1	13700	140	192.0	13.0
KBH5503AS3	13700	100	192.0	13.0
KBH6503AS3	22700	126	235.0	14.0
KBH6503AS1	22700	170	235.0	14.0



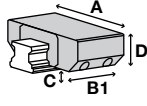
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MRS

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	MRW..A, MRW..B	KBHS3503AS1A		48
45	MRW..A, MRW..B	KBHS4503AS1A		60
55	MRW..A, MRW..B	⊗		
65	MRW..B	KBHS6503AS1A		90

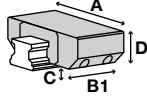
▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3503AS1A	7500	100	155	6.0
KBHS4503AS1A	9000	120	180	8.0
KBHS6503AS1A	16000	170	270	11.0



Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	KWH2503AS1		36.0
35	MRW..A, MRW..B	KWH3503AS1		48.0
35	MRW..C, MRW..D	KWH3503AS3		55.0
45	MRW..A, MRW..B	KWH4503AS1		60.0
45	MRW..C, MRW..D	KWH4503AS3		70.0
55	MRW..A, MRW..B	KWH5503AS1		70.0
55	MRW..C, MRW..D	KWH5503AS3		80.0
65	MRW..C, MRW..D	KWH6503AS3		90.0
65	MRW..B	KWH6503AS1		90.0
100	MRW..B	KWH10003AS1		120.0

▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10003AS1	34000	250	208.0	15.0
KWH2503AS1	2200	70.0	92.0	6.5
KWH3503AS1	5700	100.0	120.5	8.0
KWH3503AS3	5700	70.0	120.5	8.0
KWH4503AS1	9900	120.0	155.0	10.0
KWH4503AS3	9900	86.0	155.0	10.0
KWH5503AS1	13700	140.0	184.0	13.0
KWH5503AS3	13700	100.0	184.0	13.0
KWH6503AS3	22700	126.0	227.0	14.0
KWH6503AS1	22700	170.0	227.0	14.0

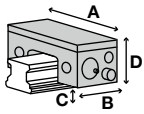


► RAIL TYPE: MRS

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	LBPS2501AS2		36.0
25	MRW..C, MRW..D, MRW..E	LBPS2501AS2	PLK25-4	40.0
35	MRW..A, MRW..B	LBPS3503AS2		48.0
35	MRW..C, MRW..D, MRW..E	LBPS3503AS2	PLK35-7	55.0
45	MRW..C, MRW..D	Ⓢ		
55	MRW..C, MRW..D	Ⓢ		

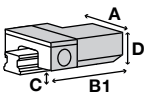
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3503AS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	LCE2503AS1		36.0
25	MRW..C, MRW..D, MRW..E	LCE2503AS1	PMK25-4	40.0
35	MRW..A, MRW..B, MRW..C, MRW..D, MRW..E	Ⓢ		

► Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE2503AS1	1100	75.0	135.0	8.00



Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	LKP2501AS2		36.0
25	MRW..C, MRW..D, MRW..E	LKP2501AS2	PLK25-4	40.0
35	MRW..A, MRW..B	LKP3503AS2		48.0
35	MRW..C, MRW..D, MRW..E	LKP3503AS2	PLK35-7	55.0
45	MRW..C, MRW..D	Ⓢ		
55	MRW..C, MRW..D	Ⓢ		

► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP2501AS2	1100	48.0	57.00	7.50
LKP3503AS2	2500	70.0	68.50	7.50

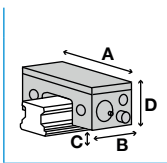


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MRS

Series LKPS pneumatic Clamping NC

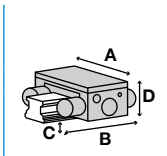
rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	LKPS2501AS2		36.0
25	MRW..C, MRW..D, MRW..E	LKPS2501AS2	PLK25-4	40.0
45	MRW..C, MRW..D	Ⓢ		
55	MRW..C, MRW..D	Ⓢ		



▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS2501AS2	750	48.0	86.0	7.50

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	MBPS2503AS1		36
25	MRW..C, MRW..D, MRW..E	MBPS2503AS1	PMB25-4	40
35	MRW..A, MRW..B	MBPS3503AS1		48
35	MRW..C, MRW..D, MRW..E	MBPS3503AS1	PMB35-7	55
45	MRW..A, MRW..B	MBPS4503AS1		60
45	MRW..C, MRW..D	MBPS4503AS1	PMB45-10	70
55	MRW..A, MRW..B	MBPS5503AS1		70
55	MRW..C, MRW..D	MBPS5503AS1	PMB55-10	80

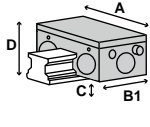


▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2503AS1	1300	75	95.2	3.5
MBPS3503AS1	2600	100	105.7	6.0
MBPS4503AS1	3600	120	113.2	8.0
MBPS5503AS1	4700	140	144.0	11.0

► RAIL TYPE: MRS

Series MK pneumatic Clamping NO

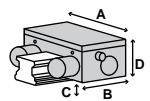
rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	MK2503MR		36.0
25	MRW..C, MRW..D, MRW..E	MK2503MR	PMK25-4	40.0
35	MRW..A, MRW..B	MK3503MR		48.0
35	MRW..C, MRW..D, MRW..E	MK3503MR	PMK35-7	55.0
45	MRW..A, MRW..B	MK4503MR		60.0
45	MRW..C, MRW..D	MK4503MR	PMK45-10	70.0
55	MRW..A, MRW..B	MK5503MR		70.0
55	MRW..C, MRW..D	MK5503MR	PMK55-10	80.0
65	MRW..D, MRW..B	MK6503MR		90.0
100	MRW..B			



► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2503MR	1200	75.0	35.0	3.5
MK3503MR	2000	100.0	39.0	4.0
MK4503MR	2250	120.0	49.0	8.0
MK5503MR	2250	128.0	49.0	13.0
MK6503MR	2250	138.0	49.0	16.5

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	MKS2503MR		36.0
25	MRW..C, MRW..D, MRW..E	MKS2503MR	PMK25-4	40.0
35	MRW..A, MRW..B	MKS3503MR		48.0
35	MRW..C, MRW..D, MRW..E	MKS3503MR	PMK35-7	55.0
45	MRW..A, MRW..B	MKS4503MR		60.0
45	MRW..C, MRW..D	MKS4503MR	PMK45-10	70.0
55	MRW..A, MRW..B	MKS5503MR		70.0
55	MRW..C, MRW..D	MKS5503MR	PMK55-10	80.0
65	MRW..D, MRW..B	MKS6503MR		90.0
100	MRW..B			



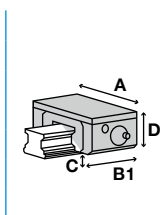
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2503MR	750	75.0	56.0	3.5
MKS3503MR	1250	100.0	67.0	4.0
MKS4503MR	1450	120.0	82.0	8.0
MKS5503MR	1450	128.0	82.0	13.0
MKS6503MR	1450	138.0	82.0	16.5

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: MRS

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	MRW..A, MRW..B	UBPS2503AS1		36
25	MRW..C, MRW..D, MRW..E	UBPS2503AS1	PUB25-4	40
35	MRW..A, MRW..B	UBPS3503AS1		48
35	MRW..A, MRW..B	UBPS3503AS1L		48
35	MRW..C, MRW..D, MRW..E	UBPS3503AS1	PUB35-7	55
35	MRW..C, MRW..D, MRW..E	UBPS3503AS1L	PUBL35-7	55
45	MRW..A, MRW..B	UBPS4503AS1L		60
45	MRW..C, MRW..D, MRW..E	UBPS4503AS1L	PUBL45-10	70
55	MRW..A, MRW..B	UBPS5503AS1L		70
55	MRW..C, MRW..D	UBPS5503AS1L	PUBL55-10	80
65	MRW..D, MRW..B	UBPS6503AS1L		90



▶ Series UBPS

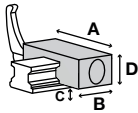
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2503AS1	1500	70	99.0	5.0
UBPS3503AS1	2800	100	109.0	6.0
UBPS3503AS1L	3200	100	152.0	6.0
UBPS4503AS1L	5200	120	197.0	8.0
UBPS5503AS1L	7700	140	197.0	10.0
UBPS6503AS1L	7700	170	197.0	11.5

► RAIL TYPE: LLTH

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	HK1501A		24.0
15	LLTHC..R	HK1501A	PHK15-4	28.0
20	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LR	HK2001A		30.0
25	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	HK2501A		36.0
25	LLTHC..R, LLTHC..LR	HK2501A	PHK25-4	40.0
30	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	HK3001A		42.0
30	LLTHC..R, LLTHC..LR	HK3001A	PHK30-3	45.0
35	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	HK3501A		48.0
35	LLTHC..R, LLTHC..LR	HK3501A	PMK35-7	55.0
45	LLTHC..A, LLTHC..LA, LLTHC..U, LLTHC..LU	HK4501A		60.0
45	LLTHC..R, LLTHC..LR	HK4501A	PHK45-10	70.0

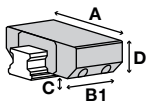
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KBH2514AS1		36.0
30	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KBH3014AS1		42.0
35	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KBH3514AS1		48.0
45	LLTHC..A, LLTHC..LA, LLTHC..U, LLTHC..SU	KBH4514AS1		60.0

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2514AS1	2200	70	100.0	6.5
KBH3014AS1	3000	90	111.5	7.0
KBH3514AS1	5700	100	128.5	8.0
KBH4514AS1	9900	120	163.0	10.0



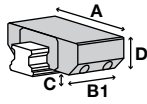
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LLTH

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KWH2514AS1		36.0
30	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KWH2514AS1		36.0
30	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KWH3014AS1		42.0
35	LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U	KWH3514AS1		48.0
45	LLTHC..A, LLTHC..LA, LLTHC..U, LLTHC..SU	KWH4514AS1		60.0

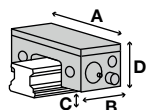
▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2514AS1	2200	70.0	92.0	6.5
KWH3014AS1	3000	90.0	103.5	7.0
KWH3514AS1	5700	100.0	120.5	8.0
KWH4514AS1	9900	120.0	155.0	8.0



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	LBPS1501AS2		24.0
15	LLTHC..R	LBPS1501AS2	PLK15-4	28.0
20	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LR	LBPS2001AS2	PLK20-2	30.0
25	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	LBPS2501AS2		36.0
25	LLTHC..R, LLTHC..LR	LBPS2501AS2	PLK25-4	40.0
30	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	LBPS3001AS2		42.0
30	LLTHC..R, LLTHC..LR	LBPS3001AS2	PLK30-3	45.0
35	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	LBPS3501AS2		48.0
35	LLTHC..R, LLTHC..LR	LBPS3501AS2	PLK35-7	55.0
45	LLTHC..U, LLTHC..R, LLTHC..LR, LLTHC..SU			

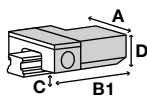
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
20	HC-A, HC-LA, HC-LR, HC-U, HC-SU	LCE2001AS1	PMK20-2	30.0

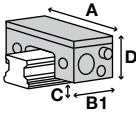
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE2001AS1	700	62.8	115.0	7.05



► RAIL TYPE: LLTH

Series LKP pneumatic Clamping NO

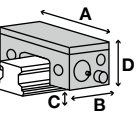
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	LKP1501AS2		24.0
15	LLTHC..R	LKP1501AS2	PLK15-4	28.0
20	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LR	LKP2001AS2	PLK20-2	30.0
25	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	LKP2501AS2		36.0
25	LLTHC..R, LLTHC..LR	LKP2501AS2	PLK25-4	40.0
30	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU, LLTHC..R, LLTHC..LR	⊗		
35	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU, LLTHC..R, LLTHC..LR	⊗		
45	LLTHC..U, LLTHC..R, LLTHC..LR, LLTHC..SU	⊗		



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	7.50

Series LKPS pneumatic Clamping NC

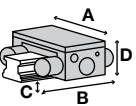
rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	LKPS1501AS2		24.0
15	LLTHC..R	LKPS1501AS2	PLK15-4	28.0
20	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LR	LKPS2001AS2	PLK20-2	30.0
25	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	LKPS2501AS2		36.0
25	LLTHC..R, LLTHC..LR	LKPS2501AS2	PLK25-4	40.0
45	LLTHC..U, LLTHC..R, LLTHC..LR, LLTHC..SU	⊗		



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	7.50

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	MBPS1504BS1		24
15	LLTHC..R	MBPS1504BS1	PMB15-4	28



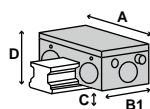
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1504BS1	750	61	94.0	2.5

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: LLTH

Series MK pneumatic Clamping NO

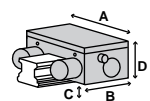
rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	MK1501A		24.0
15	LLTHC..R	MK1501A	PMK15-4	28.0
20	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LR	MK2001A		30.0
25	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	MK2501A		36.0
25	LLTHC..R, LLTHC..LR	MK2501A	PMK25-4	40.0
30	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	MK3001A		42.0
30	LLTHC..R, LLTHC..LR	MK3001A	PMK30-3	45.0
35	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	MK3501A	PMK35-3	48.0
35	LLTHC..R, LLTHC..LR	MK3501A	PMK35-10	55.0
45	LLTHC..A, LLTHC..LA, LLTHC..U, LLTHC..LU	MK4501A		60.0
45	LLTHC..R, LLTHC..LR	MK4501A	PMK45-10	70.0



▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	8.5
MK4501A	2250	120.0	49.0	16.5

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	LLTHC..SA, LLTHC..A, LLTHC..SU, LLTHC..U	MKS1501A		24.0
15	LLTHC..R	MKS1501A	PMK15-4	28.0
20	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LR	MKS2001A		30.0
25	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	MKS2501A	PMK25-4	40.0
25	LLTHC..R, LLTHC..LR	MKS2501A		36.0
30	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	MKS3001A		42.0
30	LLTHC..R, LLTHC..LR	MKS3001A	PMK30-3	45.0
35	LLTHC..SA, LLTHC..A, LLTHC..LA, LLTHC..SU, LLTHC..U, LLTHC..LU	MKS3501A	PMK35-3	48.0
35	LLTHC..R, LLTHC..LR	MKS3501A	PMK35-10	55.0
45	LLTHC..A, LLTHC..LA, LLTHC..U, LLTHC..LU	MKS4501A		60.0
45	LLTHC..R, LLTHC..LR	MKS4501A	PMK45-10	70.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	8.5
MKS4501A	1450	120.0	82.0	16.5

TRACK MANUFACTURER



► RAIL TYPE: EPF

Series MCP pneumatic Clamping NO

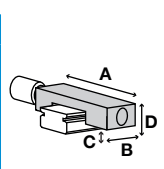
rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
7	EPF..M			
9	EPF..M			
12	EPF..M			

Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
7	EPF..M			
9	EPF..M			
12	EPF..M			

Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
7	EPF..M			
9	EPF..M			
12	EPF..M			
20	EPF..M	HK2000M		20.0



► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2000M	220	46.0	26.0	5.0

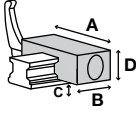
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: GSR

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	GSR..T, GSR..V	HK1501G		20.0
20	GSR..T, GSR..V	HK2001G		24.0
25	GSR..T, GSR..V	HK2501G		30.0
30	GSR..T	HK3001G		33.0
35	GSR..T	HK3501G		38.0

▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501G	1200	32.0	25.0	7.0
HK2001G	1200	43.0	24.0	8.0
HK2501G	1200	47.0	30.0	11.0
HK3001G	2000	57.0	29.0	12.0
HK3501G	2000	68.0	39.0	14.0



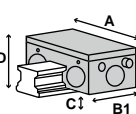
Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	GSR..T, GSR..V	Ⓢ		
20	GSR..T, GSR..V	Ⓢ		
25	GSR..T, GSR..V	Ⓢ		
30	GSR..T	Ⓢ		
35	GSR..T	Ⓢ		

Series MK pneumatic Clamping NO


rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	GSR..T, GSR..V	Ⓢ		
20	GSR..T, GSR..V	MK2001G		24.0
25	GSR..T, GSR..V	MK2501G		30.0
30	GSR..T	MK3001G		33.0
35	GSR..T	MK3501G		38.0

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2001G	650	60.0	59.0	4.5
MK2501G	1200	75.0	54.0	5.0
MK3001G	1750	90.0	59.0	5.0
MK3501G	1750	96.0	54.0	8.5

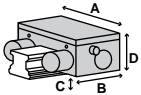


► RAIL TYPE: GSR

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	GSR..T, GSR..V			
20	GSR..T, GSR..V	MKS2001G		24.0
25	GSR..T, GSR..V	MKS2501G		30.0
30	GSR..T	MKS3001G		33.0
35	GSR..T	MKS3501G		38.0

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2001G	400	60.0	68.0	4.5
MKS2501G	750	75.0	65.0	5.0
MKS3001G	1050	90.0	78.0	5.0
MKS3501G	1050	96.0	73.0	8.5

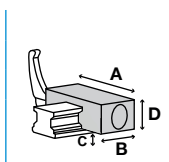


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HCR

Series HK manual Clamping bistable

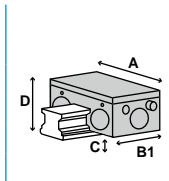
rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	HCR15A+60/150R, HCR15A+60/300R, HCR15A+60/400R	HK1501-150		24.0
25	HCR25A+60/1000R, HCR25A+60/1600R, HCR25A+60/500R, HCR25A+60/750R	HK2501A		36.0
35	HCR35A+60/1000R, HCR35A+60/1300R, HCR35A+60/600R, HCR35A+60/800R	HK3501-1000		48.0
45	HCR45A+60/800R, HCR45A+60/1000R, HCR45A+60/1200R, HCR45A+60/1600R	Ⓢ		
65	HCR65A+60/1000R, HCR65A+60/1500R, HCR65A+60/2000R, HCR65A+60/2500R	Ⓢ		



▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501-150	1200	47.0	24.0	6.5
HK2501A	1200	70.0	30.0	13.0
HK3501-1000	2000	100.0	39.0	16.0

Series MK pneumatic Clamping NO

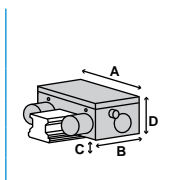
rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	HCR15A+60/150R, HCR15A+60/300R, HCR15A+60/400R	MK1501-300		24.0
25	HCR25A+60/1000R, HCR25A+60/500R, HCR25A+60/750R	MK2501-1000		36.0
35	HCR35A+60/1000R, HCR35A+60/1300R, HCR35A+60/600R, HCR35A+60/800R	MK3501-1000		48.0
45	HCR45A+60/800R, HCR45A+60/1000R, HCR45A+60/1200R, HCR45A+60/R1600R	MK4501-1000		60.0
65	HCR65A+60/1000R, HCR65A+60/1500R, HCR65A+45/R2000R, HCR65A+45/2500R, HCR65A+30/3000R	MK6501-1000		90.0



▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501-300	650	64.0	39.0	2.5
MK2501-1000	1200	84.0	35.0	8.0
MK3501-1000	2000	114.0	39.0	11.5
MK4501-1000	2250	130.0	49.0	16.5
MK6501-1000	2250	150.0	49.0	26.0

Series MKS pneumatic Clamping NC


rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	HCR15A+60/150R, HCR15A+60/300R, HCR15A+60/400R	MKS1501-300		24.0
25	HCR25A+60/1000R, HCR25A+60/500R, HCR25A+60/750R	MKS2501-1000		36.0
35	HCR35A+60/1000R, HCR35A+60/1300R, HCR35A+60/600R, HCR35A+60/800R	MKS3501-1000		48.0
45	HCR45A+60/800R, HCR45A+60/1000R, HCR45A+60/1200R, HCR45A+60/R1600R	MKS4501-1000		60.0
65	HCR65A+60/1000R, HCR65A+60/1500R, HCR65A+45/R2000R, HCR65A+45/2500R, HCR65A+30/3000R	MKS6501-1000		90.0



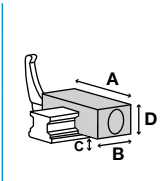
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501-300	400	64.0	58.0	2.5
MKS2501-1000	750	84.0	56.0	8.0
MKS3501-1000	750	114.0	67.0	11.5
MKS4501-1000	1450	130.0	82.0	16.5
MKS6501-1000	1450	150.0	82.0	26.0

► RAIL TYPE: HRW



Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
17	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	HK1701B		17.0
21	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	HK2101B		21.0
27	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	HK2701B		27.0
35	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	HK3501B		35.0
50	HRW..CA, HRW..CR	HK5001B		50.0
60	HRW..CA			

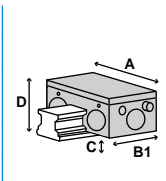
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1701B	1200	60.0	25.0	2.5
HK2101B	1200	77.0	24.0	3.0
HK2701B	1200	80.0	30.0	4.0
HK3501B	2000	135.0	39.0	4.0
HK5001B	2000	145.0	39.0	11.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
12	HRW..LRM			
17	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MK1701B		17.0
21	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MK2101B		21.0
27	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MK2701B		27.0
35	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MK3501B		35.0
50	HRW..CA, HRW..CR	MK5001B		50.0
60	HRW..CA			

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1701B	350	70.0	48.0	1.2
MK2101B	650	77.0	49.0	2.0
MK2701B	1000	88.0	53.0	4.0
MK3501B	1200	121.0	36.0	5.0
MK5001B	2000	156.0	39.0	4.5

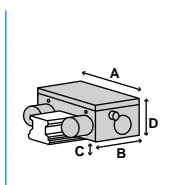


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HRW

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
12	HRW..LRM	Ⓢ		
17	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MKS1701B		17.0
21	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MKS2101B		21.0
27	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MKS2701B		27.0
35	HRW..CA, HRW..CAM, HRW..CR, HRW..CRM	MKS3501B		35.0
50	HRW..CA, HRW..CR	MKS5001B		50.0
60	HRW..CA	Ⓢ		



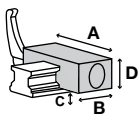
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1701B	250	70.0	64.0	1.2
MKS2101B	400	77.0	58.0	2.0
MKS2701B	600	88.0	65.0	4.0
MKS3501B	750	121.0	57.0	5.0
MKS5001B	1250	156.0	67.0	4.5

► RAIL TYPE: HSR

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	HK1501A		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	HK1501A	PHK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LRM, HSR..M, HSR..R, HSR..RM, HSR..YR, HSR..YRM	HK2001A		30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	HK2501A		36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	HK2501A	PHK25-4	40.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	HK3001A		42.0
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	HK3001A	PHK30-3	45.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	HK3501A		48.0
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	HK3501A	PMK35-7	55.0
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	HK4501A		60.0
45	HSR..R, HSR..LR, HSR..YR	HK4501A	PHK45-10	70.0
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	HK5501A		70.0
55	HSR..R, HSR..LR, HSR..YR	HK5501A	PHK55-10	80.0
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	HK6501A		90.0
85	HSR..A, HSR..B, HSR..CA, HSR..CB, HSR..HA, HSR..HB, HSR..LA, HSR..LB, HSR..LR, HSR..R			

► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	10.0
HK2501A	1200	70.0	30.0	13.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	16.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	21.0
HK6501A	2000	160.0	64.0	24.0

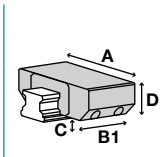


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HSR

Series KBH hydraulic Clamping and braking NO

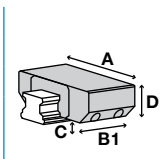
rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate *	D [mm]
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	Ⓢ		
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	Ⓢ		
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KBH3501AS1		48.0
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KBH4501AS1		60.0
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KBH5501AS1		70.0
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	KBH6501AS1		90.0



▶ Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3501AS1	5700	100	128.5	8.0
KBH4501AS1	9900	120	163.0	10.0
KBH5501AS1	13700	140	192.0	13.0
KBH6501AS1	22700	170	235.0	14.0

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate *	D [mm]
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KBHS3501AS1A		48
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KBHS4501AS1A		60
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KBHS5501AS1A		70
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KBHS6501AS1A		90

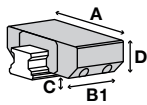


▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3501AS1A	7500	100	155	6.0
KBHS4501AS1A	9000	120	180	8.0
KBHS5501AS1A	11500	140	214	10.0
KBHS6501AS1A	12000	170	270	11.0

► RAIL TYPE: HSR

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KWH2501AS1		36.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KWH2501AS1A		36.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KWH3001AS1		42.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KWH3001AS1A		42.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KWH3501AS1		48.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	KWH3501AS1A		48.0
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KWH4501AS1		60.0
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KWH4501AS1A		60.0
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KWH5501AS1		70.0
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	KWH5501AS1A		70.0
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	KWH6501AS1		90.0
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	KWH6501AS1A		90.0
100	HSR..HA, HSR..HB, HSR..HR	KWH10001AS1		120.0
100	HSR..HA, HSR..HB, HSR..HR	KWH10001AS1A		120.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10001AS1	34000	250	208.0	15.0
KWH2501AS1	2200	70.0	92.0	6.5
KWH3001AS1	3000	90.0	103.5	7.0
KWH3501AS1	5700	100.0	120.5	8.0
KWH4501AS1	9900	120.0	155.0	10.0
KWH5501AS1	13700	140.0	184.0	13.0
KWH6501AS1	22700	170.0	227.0	14.0

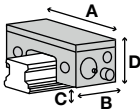
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HSR

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	LBPS1501AS2		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	LBPS1501AS2	PLK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LRM, HSR..R, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..BM, HSR..LLRM	LBPS2001AS2		30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LBPS2501AS2		36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LBPS2501AS2	PLK25-4	40.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LBPS3001AS2		42.0
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LBPS3001AS2	PLK30-3	45.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LBPS3501AS2		48.0
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LBPS3501AS2	PLK35-7	55.0
45	HSR..R, HSR..LR, HSR..YR	Ⓢ		
55	HSR..R, HSR..LR, HSR..YR	Ⓢ		

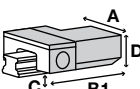
▶ Series LBPS					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	D [mm]
LBPS1501AS2	400	34.0	76.0	3.30	
LBPS2001AS2	600	44.0	81.0	5.50	
LBPS2501AS2	750	48.0	86.0	7.50	
LBPS3001AS2	1200	60.0	109.5	7.00	
LBPS3501AS2	1900	70.0	124.5	7.50	



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	LCE1501AS1		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	LCE1501AS1	PMK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LR, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..BM, HSR..LLRM	LCE2001AS1	PMK20-2	30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LCE2501AS1	PMK25-2	36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LCE2501AS1	PMK25-6	40.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM, HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		

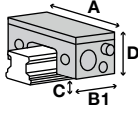
▶ Series LCE					
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]	D [mm]
LCE1501AS1	600	55.0	115.0	4.75	
LCE2001AS1	700	62.8	115.0	7.05	
LCE2501AS1	1100	75.0	135.0	6.00	



► RAIL TYPE: HSR

Series LKP pneumatic Clamping NO

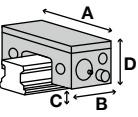
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	LKP1501AS2		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	LKP1501AS2	PLK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LRM, HSR..LR, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..BM, HSR..LLRM	LKP2001AS2		30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LKP2501AS2		36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LKP2501AS2	PLK25-4	40.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LKP3001AS2		42.0
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LKP3001AS2	PLK30-3	45.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LKP3501AS2		48.0
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LKP3501AS2	PLK35-7	55.0
45	HSR..R, HSR..LR, HSR..YR	Ⓢ		
55	HSR..R, HSR..LR, HSR..YR	Ⓢ		



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	LKPS1501AS2		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	LKPS1501AS2	PLK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LRM, HSR..LR, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..BM, HSR..LLRM	LKPS2001AS2		30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	LKPS2501AS2		36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	LKPS2501AS2	PLK25-4	40.0
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
45	HSR..R, HSR..LR, HSR..YR	Ⓢ		
55	HSR..R, HSR..LR, HSR..YR	Ⓢ		



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	5.50
LKPS2501AS2	750	48.0	86.0	7.50

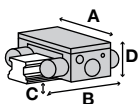
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HSR

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	MBPS1501AS1		24
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	MBPS1501AS1	PMB15-4	28
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LR, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..BM, HSR..LLRM	MBPS2001AS1		30
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MBPS2504BS1		36
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MBPS2504BS1	PMB25-4	40
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MBPS3004BS1		42
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MBPS3004BS1	PMB30-3	45
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MBPS3501AS1		48
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MBPS3501AS1	PMB35-7	55
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS4504BS1		60
45	HSR..R, HSR..LR, HSR..YR	MBPS4504BS1	PMB45-10	70
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MBPS5501AS1		70
55	HSR..R, HSR..LR, HSR..YR	MBPS5501AS1	PMK65-10	80

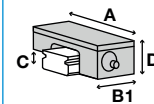
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1501AS1	750	61	94.0	2.5
MBPS2001AS1	750	66	94.0	4.2
MBPS2504BS1	1200	75	94.0	6.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3501AS1	2000	100	106.0	9.5
MBPS4504BS1	2600	120	108.7	15.0
MBPS5501AS1	3600	140	113.2	13.0



Series MCP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
12	HSR..RM	MCP1201A	PMC12-2	20.0

▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	7.95

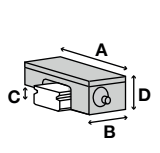


► RAIL TYPE: HSR

Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
12	HSR..RM	MCPS1201A	PMC12-2	20.0

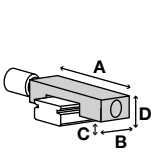
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	7.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
12	HSR..RM	HK1200M	PHM12-4	20.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	6.5



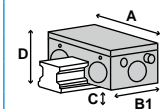
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HSR

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate *	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	MK1501A		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	MK1501A	PMK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..R, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..LM, HSR..LLRM	MK2001A		30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MK2501A		36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MK2501A	PMK25-4	40.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MK3001A		42.0
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MK3001A	PMK30-3	45.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MK3501A	PMK35-3	48.0
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MK3501A	PMK35-10	55.0
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MK4501A		60.0
45	HSR..R, HSR..LR, HSR..YR	MK4501A	PMK45-10	70.0
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MK5501A		70.0
55	HSR..R, HSR..LR, HSR..YR	MK5501A	PMK55-10	80.0
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	MK6501A		90.0
85	HSR..A, HSR..B, HSR..CA, HSR..CB, HSR..HA, HSR..HB, HSR..LA, HSR..LB, HSR..LR, HSR..R, HSR..YR			ⓘ

▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	8.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	8.5
MK4501A	2250	120.0	49.0	16.5
MK5501A	2250	128.0	49.0	21.5
MK6501A	2250	138.0	49.0	27.0

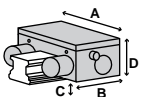


► RAIL TYPE: HSR

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	HSR..A, HSR..AM, HSR..B, HSR..BM, HSR..C	MKS1501A		24.0
15	HSR..R, HSR..RM, HSR..YR, HSR..YRM	MKS1501A	PMK15-4	28.0
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..R, HSR..RM, HSR..YR, HSR..YRM, HSR..LR, HSR..BM, HSR..LLRM	MKS2001A		30.0
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MKS2501A		36.0
25	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MKS2501A	PMK25-4	40.0
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MKS3001A		42.0
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MKS3001A	PMK30-3	45.0
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	MKS3501A	PMK35-3	48.0
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	MKS3501A	PMK35-10	55.0
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MKS4501A		60.0
45	HSR..R, HSR..LR, HSR..YR	MKS4501A	PMK45-10	70.0
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	MKS5501A		70.0
55	HSR..R, HSR..LR, HSR..YR	MKS5501A	PMK55-10	80.0
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	MKS6501A		90.0
85	HSR..A, HSR..B, HSR..CA, HSR..CB, HSR..HA, HSR..HB, HSR..LA, HSR..LB, HSR..LR, HSR..R, HSR..YR			

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	8.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	8.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501A	1450	128.0	82.0	21.5
MKS6501A	1450	138.0	82.0	27.0



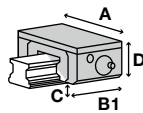
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: HSR

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	HSR..A, HSR..AM, HSR..B, HSR..C, HSR..CA, HSR..CAM, HSR..CB, HSR..CBM, HSR..HA, HSR..HAM, HSR..HB, HSR..HBM, HSR..LA, HSR..LAM, HSR..LB, HSR..LBM, HSR..LRM, HSR..R, HSR..YR, HSR..YRM, HSR..LR, HSR..BM	Ⓢ		
25	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM, HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	Ⓢ		
30	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	UBPS3001AS1		42
30	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	UBPS3001AS1	PUB30-3	45
35	HSR..A, HSR..AM, HSR..LA, HSR..LAM, HSR..B, HSR..BM, HSR..LB, HSR..LBM, HSR..C, HSR..CA, HSR..CAM, HSR..HA, HSR..HAM, HSR..CB, HSR..CBM, HSR..HB, HSR..HBM	UBPS3501AS1		48
35	HSR..R, HSR..RM, HSR..LR, HSR..LRM, HSR..YR, HSR..YRM	UBPS3501AS1	PUB35-7	55
45	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	UBPS4501AS1		60
45	HSR..R, HSR..LR, HSR..YR	UBPS4501AS1	PUB45-10	70
55	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB	UBPS5501AS1L		70
55	HSR..R, HSR..LR, HSR..YR	UBPS5501AS1L	PUBL55-10	80
65	HSR..A, HSR..LA, HSR..B, HSR..LB, HSR..CA, HSR..HA, HSR..CB, HSR..HB, HSR..R, HSR..LR, HSR..YR	UBPS6501AS1L		90

▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3001AS1	1750	90	109.0	5.0
UBPS3501AS1	2500	100	109.0	6.0
UBPS4501AS1	2800	120	109.0	8.0
UBPS5501AS1L	7700	140	197.0	10.0
UBPS6501AS1L	7700	170	197.0	11.5

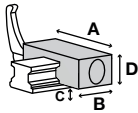


► RAIL TYPE: NR

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	HK2501A		31.0
30	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	HK3001A		38.0
35	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	HK3501A		44.0
45	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	HK4501A		52.0
55	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	HK5501A		63.0
65	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	HK6501A		75.0
85	NR..A, NR..B, NR..LA, NR..LB, NR..LR, NR..R	Ⓢ		

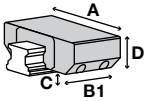
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	8.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	10.0
HK5501A	2000	140.0	49.0	14.0
HK6501A	2000	160.0	64.0	9.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	NR..XA, NR..XLA, NR..XB, NR..XLB	Ⓢ		
30	NR..A, NR..LA, NR..B, NR..LB	Ⓢ		
35	NR..A, NR..LA, NR..B, NR..LB	KBH3501BS1		44.0
45	NR..A, NR..LA, NR..B, NR..LB	KBH4501BS1		52.0
55	NR..A, NR..LA, NR..B, NR..LB	KBH5501BS1		63.0
65	NR..A, NR..LA, NR..B, NR..LB	KBH6501BS1		75.0
85	NR..A, NR..B, NR..LA, NR..LB	Ⓢ		

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3501BS1	4300	100	128.5	8.0
KBH4501BS1	7400	120	163.0	10.0
KBH5501BS1	10200	140	192.0	12.0
KBH6501BS1	17000	170	208.0	11.0

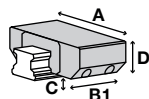


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NR

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate *	D [mm]
25	NR..XA, NR..XLA, NR..XB, NR..XLB	KWH2501BS1		31.0
30	NR..A, NR..LA, NR..B, NR..LB	KWH3001BS1		38.0
35	NR..A, NR..LA, NR..B, NR..LB	KWH3501BS1		44.0
45	NR..A, NR..LA, NR..B, NR..LB	KWH4501BS1		52.0
55	NR..A, NR..LA, NR..B, NR..LB	KWH5501BS1		63.0
65	NR..A, NR..LA, NR..B, NR..LB	KWH6501BS1		75.0
85	NR..A, NR..B, NR..LA, NR..LB	Ⓢ		
100	NR..A, NR..LA, NR..B, NR..LB	KWH10001BS1		105.0



▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10001BS1	34000	250	208.0	7.0
KWH2501BS1	1600	70.0	92.0	5.5
KWH3001BS1	2100	90.0	103.5	7.0
KWH3501BS1	4300	100.0	120.5	8.0
KWH4501BS1	7400	120.0	155.0	10.0
KWH5501BS1	10200	140.0	184.0	12.0
KWH6501BS1	17000	170.0	200.0	11.0

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate *	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	Ⓢ		

Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate *	D [mm]
35	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	Ⓢ		

Series LKP pneumatic Clamping NO


rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	Ⓢ		

Series LKPS pneumatic Clamping NC

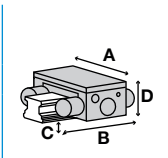
rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate *	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	Ⓢ		

► RAIL TYPE: NR

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB, NRS..XA, NRS..XB, NRS..XLA, NRS..XLB, NRS..XLR, NRS..XR			
30	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MBPS3004BS1		38
35	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MBPS3504BS1		44
45	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MBPS4504BS1		52

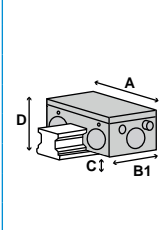
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS3004BS1	1300	90	98.2	3.0
MBPS3504BS1	2000	100	106.0	5.5
MBPS4504BS1	2600	120	108.7	7.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	MK2501N		31.0
30	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MK3001A		38.0
35	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MK3501A		44.0
45	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MK4501A		52.0
55	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MK5501A		63.0
65	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MK6501N		75.0
85	NR..A, NR..B, NR..LA, NR..LB, NR..LR, NR..R	MK8501A	PMK85-8	90.0

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501N	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	3.0
MK3501A	2000	100.0	39.0	7.5
MK4501A	2250	120.0	49.0	8.5
MK5501A	2250	128.0	49.0	14.5
MK6501N	2250	138.0	49.0	16.0
MK8501A	2250	160.0	49.0	23.0

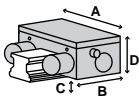


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NR

Series MKS pneumatic Clamping NC

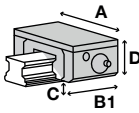
rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	MKS2501N		31.0
30	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MKS3001A		38.0
35	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MKS3501A		44.0
45	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MKS4501A		52.0
55	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MKS5501A		63.0
65	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	MKS6501N		75.0
85	NR..A, NR..B, NR..LA, NR..LB, NR..LR, NR..R	MKS8501A	PMK85-8	90.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501N	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	3.0
MKS3501A	1250	100.0	67.0	7.5
MKS4501A	1450	120.0	82.0	8.5
MKS5501A	1450	128.0	82.0	14.5
MKS6501N	1450	138.0	82.0	16.0
MKS8501A	1450	160.0	82.0	23.0

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	NR..XR, NR..XLR, NR..XA, NR..XLA, NR..XB, NR..XLB	⊗		
30	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	⊗		
35	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	UBPS3501BS1		44
45	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	UBPS4501BS1		52
55	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	UBPS5501BS1L		63
65	NR..R, NR..LR, NR..A, NR..LA, NR..B, NR..LB	UBPS6501BS1L		75



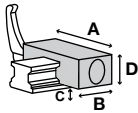
▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3501BS1	2500	100	109.0	5.5
UBPS4501BS1	2800	120	109.0	7.0
UBPS5501BS1L	5200	140	197.0	11.0
UBPS6501BS1L	7700	170	197.0	11.0

► RAIL TYPE: NRS

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	HK2501A		31.0
30	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	HK3001A		38.0
35	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	HK3501A		44.0
45	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	HK4501A		52.0
55	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	HK5501A		63.0
65	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	HK6501A		75.0
85	NRS..A, NRS..B, NRS..LA, NRS..LB, NRS..LR, NRS..R	Ⓢ		

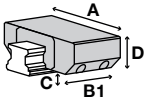
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	8.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	10.0
HK5501A	2000	140.0	49.0	14.0
HK6501A	2000	160.0	64.0	9.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	NRS..XA, NRS..XLA, NRS..XLB	Ⓢ		
30	NRS..A, NRS..LA, NRS..B, NRS..LB	Ⓢ		
35	NRS..A, NRS..LA, NRS..B, NRS..LB	KBH3501BS1		44.0
45	NRS..A, NRS..LA, NRS..B, NRS..LB	KBH4501BS1		52.0
55	NRS..A, NRS..LA, NRS..B, NRS..LB	KBH5501BS1		63.0
65	NRS..A, NRS..LA, NRS..B, NRS..LB	KBH6501BS1		75.0
85	NRS..A, NRS..B, NRS..LA, NRS..LB	Ⓢ		

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3501BS1	4300	100	128.5	8.0
KBH4501BS1	7400	120	163.0	10.0
KBH5501BS1	10200	140	192.0	12.0
KBH6501BS1	17000	170	208.0	11.0



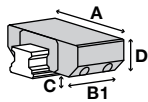
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NRS

Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate *	D [mm]
25	NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	KWH2501BS1		31.0
30	NRS..A, NRS..LA, NRS..B, NRS..LB	KWH3001BS1		38.0
35	NRS..A, NRS..LA, NRS..B, NRS..LB	KWH3501BS1		44.0
45	NRS..A, NRS..LA, NRS..B, NRS..LB	KWH4501BS1		52.0
55	NRS..A, NRS..LA, NRS..B, NRS..LB	KWH5501BS1		63.0
65	NRS..A, NRS..LA, NRS..B, NRS..LB	KWH6501BS1		75.0
85	NRS..A, NRS..B, NRS..LA, NRS..LB	Ⓢ		
100	NRS..A, NRS..LA, NRS..B, NRS..LB	KWH10001BS1		105.0

▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10001BS1	34000	250	208.0	7.0
KWH2501BS1	1600	70.0	92.0	5.5
KWH3001BS1	2100	90.0	103.5	7.0
KWH3501BS1	4300	100.0	120.5	8.0
KWH4501BS1	7400	120.0	155.0	10.0
KWH5501BS1	10200	140.0	184.0	12.0
KWH6501BS1	17000	170.0	200.0	11.0



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate *	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	Ⓢ		

Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate *	D [mm]
35	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	Ⓢ		

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	Ⓢ		

Series LKPS pneumatic Clamping NC

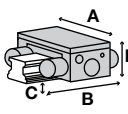
rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate *	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	Ⓢ		

► RAIL TYPE: NRS

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
30	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MBPS3004BS1		38
35	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MBPS3504BS1		44
45	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MBPS4504BS1		52

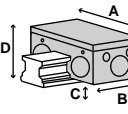
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS3004BS1	1300	90	98.2	3.0
MBPS3504BS1	2000	100	106.0	5.5
MBPS4504BS1	2600	120	108.7	7.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	MK2501N		31.0
30	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MK3001A		38.0
35	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MK3501A		44.0
45	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MK4501A		52.0
55	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MK5501A		63.0
65	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MK6501N		75.0
85	NRS..A, NRS..B, NRS..LA, NRS..LB, NRS..LR, NRS..R	MK8501A	PMK85-8	90.0

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501N	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	3.0
MK3501A	2000	100.0	39.0	7.5
MK4501A	2250	120.0	49.0	8.5
MK5501A	2250	128.0	49.0	14.5
MK6501N	2250	138.0	49.0	16.0
MK8501A	2250	160.0	49.0	23.0

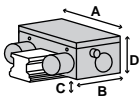


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: NRS

Series MKS pneumatic Clamping NC

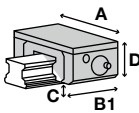
rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	MKS2501N		31.0
30	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MKS3001A		38.0
35	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MKS3501A		44.0
45	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MKS4501A		52.0
55	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MKS5501A		63.0
65	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	MKS6501N		75.0
85	NRS..A, NRS..B, NRS..LA, NRS..LB, NRS..LR, NRS..R	MKS8501A	PMK85-8	90.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501N	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	3.0
MKS3501A	1250	100.0	67.0	7.5
MKS4501A	1450	120.0	82.0	8.5
MKS5501A	1450	128.0	82.0	14.5
MKS6501N	1450	138.0	82.0	16.0
MKS8501A	1450	160.0	82.0	23.0

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	NRS..XR, NRS..XLR, NRS..XA, NRS..XLA, NRS..XB, NRS..XLB	Ⓢ		
30	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	Ⓢ		
35	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	UBPS3501BS1		44
45	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	UBPS4501BS1		52
55	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	UBPS5501BS1L		63
65	NRS..R, NRS..LR, NRS..A, NRS..LA, NRS..B, NRS..LB	UBPS6501BS1L		75



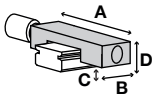
▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3501BS1	2500	100	109.0	5.5
UBPS4501BS1	2800	120	109.0	7.0
UBPS5501BS1L	5200	140	197.0	11.0
UBPS6501BS1L	7700	170	197.0	11.0

► RAIL TYPE: RSH

Series miniHK manual Clamping bistable

rail size	► Carriage type		► Series miniHK		
			Order No.	Adapter plate*	D [mm]
7	RSH..M		HK0700M		8.0
9	RSH..KM		HK0900M		10.0

► Series miniHK					
Version	Holding force [N]	A [mm]	B [mm]	C [mm]	D [mm]
HK0700M	65	17.0	12.0	2.0	
HK0900M	100	20.0	17.0	2.7	

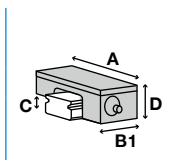


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: RSR

Series MCP pneumatic Clamping NO

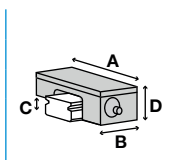
rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
7	RSR..M, RSR..N, RSR..ZM	☉		
9	RSR..KM, RSR..N, RSR..ZM	MCP0901A		10.0
12	RSR..KM, RSR..N, RSH..VM, RSR..ZM	MCP1201M		13.0
15	RSR..KM, RSR..N, RSR..ZM	MCP1501M		16.0
20	RSR..N, RSR..VM	☉		



▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201M	280	37.5	34.0	2.95
MCP1501M	320	41.5	34.0	3.95
MCP0901A	130	32.5	34.0	2.15

Series MCPS pneumatic Clamping NC

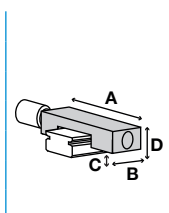
rail size	▶ Carriage type	▶ Series MCPS		
		Order No.	Adapter plate*	D [mm]
7	RSR..M, RSR..N, RSR..ZM	☉		
9	RSR..KM, RSR..N, RSR..ZM	MCPS0901A		10.0
12	RSR..KM, RSR..N, RSH..VM, RSR..ZM	MCPS1201M		13.0
15	RSR..KM, RSR..N, RSR..ZM	MCPS1501M		16.0
20	RSR..N, RSR..VM	☉		



▶ Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201M	240	37.5	52.5	2.95
MCPS1501M	280	41.5	52.5	3.95
MCPS0901A	80	32.5	52.5	2.15

Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	RSR..M, RSR..N	HK0500M		6.0
5	RSR..M, RSR..N	☉		
7	RSR..M, RSR..N, RSR..ZM	HK0700M		8.0
9	RSR..KM, RSR..N, RSR..ZM	HK0900M		10.0
12	RSR..N, RSR..ZM, RSR..VM	HK1200M		13.0
15	RSR..N, RSR..ZM, RSR..VM	HK1500M		16.0
20	RSR..N, RSR..VM	HK2000M		25.0



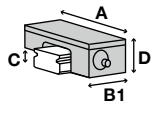
▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK2000M	220	46.0	26.0	10.0
HK0500M	40	12.0	14.0	1.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7

► RAIL TYPE: RSR-W

Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
9	RSR..WN, RSR..WV, RSR..WVM, RSR..WZM	MCP0900MW		12.0

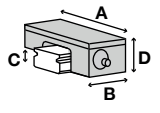
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP0900MW	130	42.3	34.0	2.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
9	RSR..WN, RSR..WV, RSR..WVM, RSR..WZM	MCPS0900MW		12.0

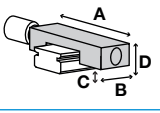
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS0900MW	80	42.3	52.5	2.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
3	RSR..WM, RSR..WN	Ⓢ		
5	RSR..WM, RSR..WN, RSR..WTM, RSR..WTN	HK0500MW		6.5
7	RSR..WM, RSR..WTM, RSR..WTN, RSR..WZM	HK0700MW		9.0
9	RSR..WN, RSR..WV, RSR..WVM, RSR..WZM	HK0900MW		12.0
12	RSR..WN, RSR..WV, RSR..WVM, RSR..WZM	HK1200MW		14.0
15	RSH..WZM, RSR..WN, RSR..WV, RSR..WVM, RSR..WZM	Ⓢ		

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200MW	150	40.0	19.0	4.0
HK0500MW	40	17.0	14.0	2.0
HK0700MW	65	25.0	12.0	3.0
HK0900MW	100	30.0	17.0	4.2

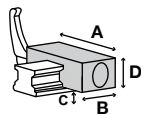


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SHS

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	HK1501A	PHK15-2	24.0
15	SHS..R	HK1501A	PHK15-6	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	HK2001A	PHK20-2	30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	HK2501A	PHK25-4	36.0
25	SHS..R, SHS..LR	HK2501A	PHK25-8	40.0
30	SHS..C, SHS..LC, SHS..V, SHS..LV	HK3001A		42.0
30	SHS..R, SHS..LR	HK3001A	PHK30-3	45.0
35	SHS..C, SHS..LC, SHS..V, SHS..LV	HK3501A	PMK35-4	48.0
35	SHS..R, SHS..LR	HK3501A	PMK35-11	55.0
45	SHS..C, SHS..LC, SHS..V, SHS..LV	HK4501A		60.0
45	SHS..R, SHS..LR	HK4501A	PHK45-10	70.0
55	SHS..C, SHS..LC, SHS..V, SHS..LV	HK5501A	PHK55-4	70.0
55	SHS..R, SHS..LR	HK5501A	PHK55-14	80.0
65	SHS..C, SHS..LC, SHS..V, SHS..LV	HK6501A		90.0

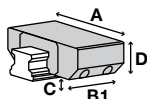


▶ Series HK

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	4.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	9.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	18.0
HK5501A	2000	140.0	49.0	17.0
HK6501A	2000	160.0	64.0	24.0

Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	SHS..C, SHS..LC	KBH2501CS1		36.0
30	SHS..C, SHS..LC	KBH3001CS1		42.0
35	SHS..C, SHS..LC	KBH3501CS1		48.0
45	SHS..C, SHS..LC	KBH4501CS1		60.0
55	SHS..C, SHS..LC	KBH5501CS1		70.0
65	SHS..C, SHS..LC	KBH6501CS1		90.0



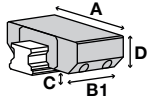
▶ Series KBH

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2501CS1	2200	70	100.0	6.5
KBH3001CS1	3000	90	111.5	7.0
KBH3501CS1	5700	100	128.5	8.0
KBH4501CS1	9900	120	163.0	10.0
KBH5501CS1	13700	140	192.0	13.0
KBH6501CS1	22700	170	235.0	14.0

► RAIL TYPE: SHS

Series KBHS hydraulic Clamping and braking NC

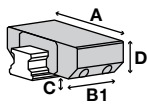
rail size	► Carriage type	► Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	SHS..C, SHS..LC	KBHS3501CS1A		48
45	SHS..C, SHS..LC	KBHS4501CS1A		60
55	SHS..C, SHS..LC	KBHS5501CS1A		70
65	SHS..C, SHS..LC	KBHS6501CS1A		90



► Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3501CS1A	7500	100	155	6.0
KBHS4501CS1A	9000	120	180	8.0
KBHS5501CS1A	11500	140	214	10.0
KBHS6501CS1A	16000	170	270	11.0

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	SHS..C, SHS..LC	KWH2501CS1		36.0
30	SHS..C, SHS..LC	KWH3001CS1		42.0
35	SHS..C, SHS..LC	KWH3501CS1		48.0
45	SHS..C, SHS..LC	KWH4501CS1		60.0
55	SHS..C, SHS..LC	KWH5501CS1		70.0
65	SHS..C, SHS..LC	KWH6501CS1		90.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2501CS1	2200	70.0	92.0	6.5
KWH3001CS1	3000	90.0	103.5	7.0
KWH3501CS1	5700	100.0	120.5	8.0
KWH4501CS1	9900	120.0	155.0	10.0
KWH5501CS1	13700	140.0	184.0	13.0
KWH6501CS1	22700	170.0	227.0	14.0

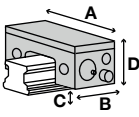
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SHS

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	LBPS1501AS2		24.0
15	SHS..R	LBPS1501AS2	PLK15-4	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	LBPS2001AS2		30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	LBPS2501AS2	PLK25-2	36.0
25	SHS..R, SHS..LR	LBPS2501AS2	PLK25-6	40.0
30	SHS..C, SHS..LC, SHS..V, SHS..LV	LBPS3001AS2		42.0
30	SHS..V, SHS..LV, SHS..R, SHS..LR	Ⓢ		
30	SHS..R, SHS..LR	LBPS3001AS2	PLK30-3	45.0
35	SHS..C, SHS..LC, SHS..V, SHS..LV	LBPS3501AS2		48.0
35	SHS..V, SHS..LV, SHS..R, SHS..LR	Ⓢ		
35	SHS..R, SHS..LR	LBPS3501AS2	PLK35-7	55.0
45	SHS..V, SHS..LV, SHS..R, SHS..LR	Ⓢ		
55	SHS..V, SHS..LV, SHS..R, SHS..LR	Ⓢ		

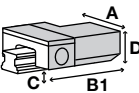
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	5.50
LBPS2501AS2	750	48.0	86.0	5.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	LCE1501AS1	PMK15-2	24.0
15	SHS..R	LCE1501AS1	PMK15-6	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	LCE2001AS1	PMK20-2	30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	LCE2501AS1	PMK25-4	36.0
25	SHS..R, SHS..LR	LCE2501AS1	PMK25-8	40.0
35	SHS..C, SHS..LC, SHS..V, SHS..LV, SHS..R, SHS..LR	Ⓢ		

▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1501AS1	600	55.0	115.0	2.75
LCE2001AS1	700	62.8	115.0	7.05
LCE2501AS1	1100	75.0	135.0	4.00



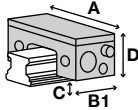
TRACK MANUFACTURER



► RAIL TYPE: SHS

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	LKP1501AS2		24.0
15	SHS..R	LKP1501AS2	PLK15-4	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	LKP2001AS2		30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	LKP2501AS2	PLK25-2	36.0
25	SHS..R, SHS..LR	LKP2501AS2	PLK25-6	40.0
30	SHS..C, SHS..LC, SHS..V, SHS..LV	LKP3001AS2		42.0
30	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		
30	SHS..R, SHS..LR	LKP3001AS2	PLK30-3	45.0
35	SHS..C, SHS..LC, SHS..V, SHS..LV	LKP3501AS2		48.0
35	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		
35	SHS..R, SHS..LR	LKP3501AS2	PLK35-7	55.0
45	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		
55	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		

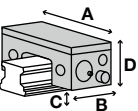


► Series LKP

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	5.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	LKPS1501AS2		24.0
15	SHS..R	LKPS1501AS2	PLK15-4	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	LKPS2001AS2		30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	LKPS2501AS2	PLK25-2	36.0
25	SHS..R, SHS..LR	LKPS2501AS2	PLK25-6	40.0
30	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		
35	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		
45	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		
55	SHS..V, SHS..LV, SHS..R, SHS..LR	⌚		



► Series LKPS

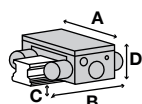
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	5.50
LKPS2501AS2	750	48.0	86.0	5.50

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SHS

Series MBPS pneumatic Clamping and braking NC

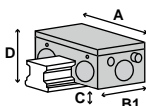
rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
20	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS2001CS1		30
25	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS2504BS1	PMB25-1	36
25	SHS..R, SHS..LR	MBPS2504BS1	PMB25-5	40
30	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS3004BS1		42
30	SHS..R, SHS..LR	MBPS3004BS1	PMB30-3	45
35	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS3501CS1		48
35	SHS..R, SHS..LR	MBPS3501CS1	PMB35-7	55
45	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS4504BS1	PMB45-3	60
45	SHS..R, SHS..LR	MBPS4504BS1	PMB45-13	70
55	SHS..C, SHS..LC, SHS..V, SHS..LV	MBPS5501CS1		70
55	SHS..R, SHS..LR	MBPS5501CS1	PMK65-10	80



▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2001CS1	750	66	94.0	4.2
MBPS2504BS1	1200	75	94.0	5.5
MBPS3004BS1	1300	90	98.2	7.0
MBPS3501CS1	2000	100	106.0	8.0
MBPS4504BS1	2600	120	108.7	12.0
MBPS5501CS1	3600	140	113.2	13.0

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	MK1501A		24.0
15	SHS..R	MK1501A	PMK15-4	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	MK2001A		30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	MK2501A	PMK25-2	36.0
25	SHS..R, SHS..LR	MK2501A	PMK25-6	40.0
30	SHS..C, SHS..LC, SHS..V, SHS..LV	MK3001A		42.0
30	SHS..R, SHS..LR	MK3001A	PMK30-3	45.0
35	SHS..C, SHS..LC, SHS..V, SHS..LV	MK3501A	PMK35-4	48.0
35	SHS..R, SHS..LR	MK3501A	PMK35-11	55.0
45	SHS..C, SHS..LC, SHS..V, SHS..LV	MK4501A	PMK45-6	60.0
45	SHS..R, SHS..LR	MK4501A	PMK45-16	70.0
55	SHS..C, SHS..LC, SHS..V, SHS..LV	MK5501A	PMK55-6	70.0
55	SHS..R, SHS..LR	MK5501A	PMK55-16	80.0
65	SHS..C, SHS..LC, SHS..V, SHS..LV	MK6501A		90.0



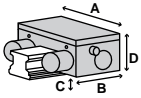
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	4.5
MK2501A	1200	75.0	35.0	6.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	7.5
MK4501A	2250	120.0	49.0	10.5
MK5501A	2250	128.0	49.0	15.5
MK6501A	2250	138.0	49.0	27.0

► RAIL TYPE: SHS

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
15	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS1501A		24.0
15	SHS..R	MKS1501A	PMK15-4	28.0
20	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS2001A		30.0
25	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS2501A	PMK25-2	36.0
25	SHS..R, SHS..LR	MKS2501A	PMK25-6	40.0
30	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS3001A		42.0
30	SHS..R, SHS..LR	MKS3001A	PMK30-3	45.0
35	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS3501A	PMK35-4	48.0
35	SHS..R, SHS..LR	MKS3501A	PMK35-11	55.0
45	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS4501A	PMK45-6	60.0
45	SHS..R, SHS..LR	MKS4501A	PMK45-16	70.0
55	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS5501A	PMK55-6	70.0
55	SHS..R, SHS..LR	MKS5501A	PMK55-16	80.0
65	SHS..C, SHS..LC, SHS..V, SHS..LV	MKS6501A		90.0

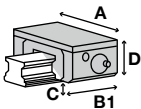
► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	4.5
MKS2501A	750	75.0	56.0	6.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	7.5
MKS4501A	1450	120.0	82.0	10.5
MKS5501A	1450	128.0	82.0	15.5
MKS6501A	1450	138.0	82.0	27.0



Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	SHS..C, SHS..LC, SHS..V, SHS..LV	Ⓢ		
25	SHS..C, SHS..LC, SHS..V, SHS..LV, SHS..R, SHS..LR	Ⓢ		
30	SHS..C, SHS..LC, SHS..V, SHS..LV	UBPS3001CS1		42
30	SHS..R, SHS..LR	UBPS3001CS1	PUB30-3	45
35	SHS..C, SHS..LC, SHS..V, SHS..LV	UBPS3501CS1		48
35	SHS..R, SHS..LR	UBPS3501CS1	PUB35-7	55
45	SHS..C, SHS..LC, SHS..V, SHS..LV	UBPS4501CS1		60
45	SHS..R, SHS..LR	UBPS4501CS1	PUB45-10	70
55	SHS..C, SHS..LC, SHS..V, SHS..LV	UBPS5501CS1L		70
55	SHS..R, SHS..LR	UBPS5501CS1L	PUBL55-10	80
65	SHS..C, SHS..LC, SHS..V, SHS..LV	UBPS6501CS1L		90

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3001CS1	1750	90	109.0	5.0
UBPS3501CS1	2500	100	109.0	6.0
UBPS4501CS1	2800	120	109.0	8.0
UBPS5501CS1L	7700	140	197.0	10.0
UBPS6501CS1L	7700	170	197.0	11.5



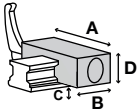
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SHW

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
17	SHW..CAM, SHW..CRM, SHW..HRM	HK1701B		17.0
21	SHW..CAM, SHW..CRM	HK2101B		21.0
27	SHW..CA, SHW..CR	HK2701B		27.0
35	SHW..CA, SHW..CR	HK3501B		35.0
50	SHW..CA, SHW..CR	HK5001B		50.0

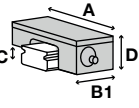
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1701B	1200	60.0	25.0	2.5
HK2101B	1200	77.0	24.0	3.0
HK2701B	1200	80.0	30.0	4.0
HK3501B	2000	135.0	39.0	4.0
HK5001B	2000	145.0	39.0	11.0



Series MCP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MCP		
		Order No.	Adapter plate*	D [mm]
12	SHW..CA, SHW..CR, SHW..HR	MCP0900MW		12.0

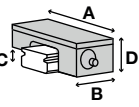
▶ Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP0900MW	130	42.3	34.0	2.95



Series MCPS pneumatic Clamping NC


rail size	▶ Carriage type	▶ Series MCPS		
		Order No.	Adapter plate*	D [mm]
12	SHW..CA, SHW..CR, SHW..HR	MCPS0900MW		12.0

▶ Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS0900MW	80	42.3	52.5	2.95

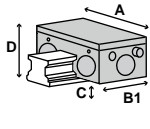


► RAIL TYPE: SHW


Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
12	SHW..CAM, SHW..CRM, SHW..HRM			
17	SHW..CAM, SHW..CRM	MK1701B		17.0
21	SHW..CA, SHW..CR	MK2101B		21.0
27	SHW..CA, SHW..CR	MK2701B		27.0
35	SHW..CA, SHW..CR	MK3501B		35.0
50	SHW..CA, SHW..CR	MK5001B		50.0

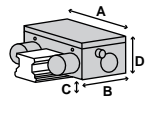
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1701B	350	70.0	48.0	1.2
MK2101B	650	77.0	49.0	2.0
MK2701B	1000	88.0	53.0	4.0
MK3501B	1200	121.0	36.0	5.0
MK5001B	2000	156.0	39.0	4.5



Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
12	SHW..CAM, SHW..CRM, SHW..HRM			
17	SHW..CAM, SHW..CRM	MKS1701B		17.0
21	SHW..CA, SHW..CR	MKS2101B		21.0
27	SHW..CA, SHW..CR	MKS2701B		27.0
35	SHW..CA, SHW..CR	MKS3501B		35.0
55	SHW..CA, SHW..CR	MKS5001B		50.0

► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1701B	250	70.0	64.0	1.2
MKS2101B	400	77.0	58.0	2.0
MKS2701B	600	88.0	65.0	4.0
MKS3501B	750	121.0	57.0	5.0
MKS5001B	1250	156.0	67.0	4.5



- ▶ * Adapter plate and clamping element must be ordered together
- ▶ **Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

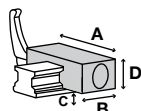
▶ RAIL TYPE: SNR

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	HK2501A		31.0
30	SNR..R, SNR..LR, SNR..C, SNR..LC	HK3001A		38.0
35	SNR..RH, SNR..LRH	HK3501A	PMK35-11	55.0
35	SNR..CH, SNR..LCH	HK3501A	PMK35-4	48.0
35	SNR..R, SNR..LR, SNR..C, SNR..LC	HK3501A		44.0
45	SNR..R, SNR..LR, SNR..C, SNR..LC	HK4501A		52.0
45	SNR..CH, SNR..LCH	HK4501A	PHK45-8	60.0
45	SNR..RH, SNR..LRH	HK4501A	PHK45-18	70.0
55	SNR..CH, SNR..LCH	HK5501A	PHK55-7	70.0
55	SNR..R, SNR..LR, SNR..C, SNR..LC	HK5501A		63.0
55	SNR..RH, SNR..LRH	HK5501A	PHK55-17	80.0
65	SNR..R, SNR..LR, SNR..C, SNR..LC	HK6501A		75.0
85	SNR..LC, SNR..LR	Ⓢ		

▶ Series HK

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	8.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	10.0
HK5501A	2000	140.0	49.0	14.0
HK6501A	2000	160.0	64.0	9.0

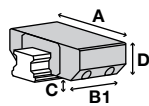


Series KBH hydraulic Clamping and braking NO

rail size	▶ Carriage type	▶ Series KBH		
		Order No.	Adapter plate*	D [mm]
25	SNR..C, SNR..LC	Ⓢ		
30	SNR..C, SNR..LC	Ⓢ		
35	SNR..C, SNR..LC	KBH3501IS1		44.0
45	SNR..C, SNR..LC	KBH4501IS1		52.0
55	SNR..C, SNR..LC	KBH5501IS1		63.0
65	SNR..C, SNR..LC	KBH6501IS1		75.0

▶ Series KBH

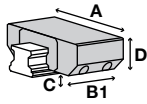
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH3501IS1	4300	100	128.5	8.0
KBH4501IS1	7400	120	163.0	10.0
KBH5501IS1	10200	140	192.0	12.0
KBH6501IS1	17000	170	208.0	11.0



► RAIL TYPE: SNR

Series KWH hydraulic Clamping NO

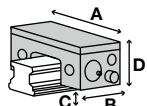
rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..C, SNR..LC	KWH2501IS1		31.0
30	SNR..R, SNR..C, SNR..LC	KWH3001IS1		38.0
35	SNR..R, SNR..C, SNR..LC	KWH3501IS1		44.0
45	SNR..R, SNR..C, SNR..LC	KWH4501IS1		52.0
55	SNR..R, SNR..C, SNR..LC	KWH5501IS1		63.0
65	SNR..R, SNR..C, SNR..LC	KWH6501IS1		75.0
85	SNR..LC	KWH8501IS1	PKW85-8	82.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2501IS1	1600	70.0	92.0	5.5
KWH3001IS1	2100	90.0	103.5	7.0
KWH3501IS1	4300	100.0	120.5	8.0
KWH4501IS1	7400	120.0	155.0	10.0
KWH5501IS1	10200	140.0	184.0	12.0
KWH6501IS1	17000	170.0	200.0	11.0
KWH8501IS1	13700	165	192.0	14.0

Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	⓪		
30	SNR..R, SNR..LR, SNR..C, SNR..LC	⓪		
35	SNR..RH, SNR..LRH	LBPS3501AS2	PLK35-7	55.0
35	SNR..CH, SNR..LCH	LBPS3501AS2		48.0
35	SNR..R, SNR..LR, SNR..C, SNR..LC	⓪		



► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3501AS2	1900	70.0	124.5	7.50

Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	⓪		
35	SNR..RH, SNR..LRH, SNR..CH, SNR..LCH, SNR..R, SNR..LR, SNR..C, SNR..LC	⓪		

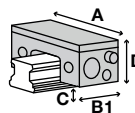
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SNR

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	☉		
30	SNR..R, SNR..LR, SNR..C, SNR..LC	☉		
35	SNR..RH, SNR..LRH	LKP3501AS2	PLK35-7	55.0
35	SNR..CH, SNR..LCH	LKP3501AS2		48.0
35	SNR..R, SNR..LR, SNR..C, SNR..LC	☉		

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3501AS2	2500	70.0	68.50	7.50



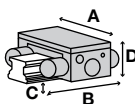
Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	☉		

Series MBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	MBPS2501IS1		31
30	SNR..R, SNR..LR, SNR..C, SNR..LC	MBPS3004BS1		38
35	SNR..RH, SNR..LRH	MBPS3504BS1	PMB35-11	55
35	SNR..CH, SNR..LCH	MBPS3504BS1	PMB35-4	48
35	SNR..R, SNR..LR, SNR..C, SNR..LC	MBPS3504BS1		44
45	SNR..R, SNR..LR, SNR..C, SNR..LC	MBPS4504BS1		52
45	SNR..CH, SNR..LCH	MBPS4504BS1	PMB45-8	60
45	SNR..RH, SNR..LRH	MBPS4504BS1	PMB45-18	70
55	SNR..CH, SNR..LCH	MBPS5504BS1	PMK65-7	70
55	SNR..R, SNR..LR, SNR..C, SNR..LC	MBPS5504BS1		63
55	SNR..RH, SNR..LRH	MBPS5504BS1	PMK65-17	80

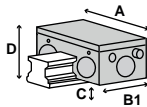
▶ Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501IS1	750	72	94.0	5.2
MBPS3004BS1	1300	90	98.2	3.0
MBPS3504BS1	2000	100	106.0	5.5
MBPS4504BS1	2600	120	108.7	7.0
MBPS5504BS1	3600	140	113.2	6.0



► RAIL TYPE: SNR

Series MK pneumatic Clamping NO

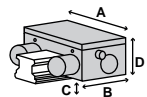
rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	MK2501N		31.0
30	SNR..R, SNR..LR, SNR..C, SNR..LC	MK3001A		38.0
35	SNR..RH, SNR..LRH	MK3501A	PMK35-11	55.0
35	SNR..CH, SNR..LCH	MK3501A	PMK35-4	48.0
35	SNR..R, SNR..LR, SNR..C, SNR..LC	MK3501A		44.0
45	SNR..R, SNR..LR, SNR..C, SNR..LC	MK4501A		52.0
45	SNR..CH, SNR..LCH	MK4501A	PMK45-18	70.0
45	SNR..RH, SNR..LRH	MK4501A	PMK45-8	60.0
55	SNR..CH, SNR..LCH	MK5501A	PMK55-7	70.0
55	SNR..R, SNR..LR, SNR..C, SNR..LC	MK5501A		63.0
55	SNR..RH, SNR..LRH	MK5501A	PMK55-17	80.0
65	SNR..R, SNR..LR, SNR..C, SNR..LC	MK6501N		75.0
85	SNR..LC, SNR..LR	MK8501A	PMK85-8	90.0



► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501N	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	3.0
MK3501A	2000	100.0	39.0	7.5
MK4501A	2250	120.0	49.0	8.5
MK5501A	2250	128.0	49.0	14.5
MK6501N	2250	138.0	49.0	16.0
MK8501A	2250	160.0	49.0	23.0

Series MKS pneumatic Clamping NC

rail size	► Carriage type	► Series MKS		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	MKS2501N		31.0
30	SNR..R, SNR..LR, SNR..C, SNR..LC	MKS3001A		38.0
35	SNR..RH, SNR..LRH	MKS3501A	PMK35-11	55.0
35	SNR..CH, SNR..LCH	MKS3501A	PMK35-4	48.0
35	SNR..R, SNR..LR, SNR..C, SNR..LC	MKS3501A		44.0
45	SNR..R, SNR..LR, SNR..C, SNR..LC	MKS4501A		52.0
45	SNR..CH, SNR..LCH	MKS4501A	PMK45-8	60.0
45	SNR..RH, SNR..LRH	MKS4501A	PMK45-18	70.0
55	SNR..CH, SNR..LCH	MKS5501A	PMK55-7	70.0
55	SNR..R, SNR..LR, SNR..C, SNR..LC	MKS5501A		63.0
55	SNR..RH, SNR..LRH	MKS5501A	PMK55-17	80.0
65	SNR..R, SNR..LR, SNR..C, SNR..LC	MKS6501N		75.0
85	SNR..LC, SNR..LR	MKS8501A	PMK85-8	90.0



► Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501N	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	3.0
MKS3501A	1250	100.0	67.0	7.5
MKS4501A	1450	120.0	82.0	8.5
MKS5501A	1450	128.0	82.0	14.5
MKS6501N	1450	138.0	82.0	16.0
MKS8501A	1450	160.0	82.0	23.0

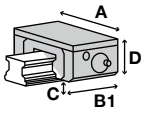
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SNR

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	SNR..R, SNR..LR, SNR..C, SNR..LC	☉		
30	SNR..R, SNR..LR, SNR..C, SNR..LC	☉		
35	SNR..RH, SNR..LRH	UBPS3501IS1	PUB35-11	55
35	SNR..CH, SNR..LCH	UBPS3501IS1	PUB35-4	48
35	SNR..R, SNR..LR, SNR..C, SNR..LC	UBPS3501IS1		44
45	SNR..R, SNR..LR, SNR..C, SNR..LC	UBPS4501IS1		52
45	SNR..LCH, SNR..RH, SNR..LRH	☉		
55	SNR..CH, SNR..LCH, SNR..RH, SNR..LRH	☉		
55	SNR..R, SNR..LR, SNR..C, SNR..LC	UBPS5501IS1L		63
65	SNR..R, SNR..LR, SNR..C, SNR..LC	UBPS6501IS1L		75

▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3501IS1	2500	100	109.0	5.5
UBPS4501IS1	3100	120	109.0	7.0
UBPS5501IS1L	5200	140	197.0	11.0
UBPS6501IS1L	7700	170	197.0	11.0

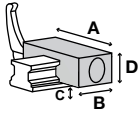


► RAIL TYPE: SNS

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC	HK2501A		31.0
30	SNS..R, SNS..LR, SNS..C, SNS..LC	HK3001A		38.0
35	SNS..CH, SNS..LCH	HK3501A	PMK35-4	48.0
35	SNS..RH, SNS..LRH	HK3501A	PMK35-11	55.0
35	SNS..R, SNS..LR, SNS..C, SNS..LC	HK3501A		44.0
45	SNS..CH, SNS..LCH	HK4501A	PHK45-8	60.0
45	SNS..RH, SNS..LRH	HK4501A	PHK45-18	70.0
45	SNS..R, SNS..LR, SNS..C, SNS..LC	HK4501A		52.0
55	SNS..R, SNS..LR, SNS..C, SNS..LC	HK5501A		63.0
55	SNS..RH, SNS..LRH	HK5501A	PHK55-17	80.0
55	SNS..CH, SNS..LCH	HK5501A	PHK55-7	70.0
65	SNS..R, SNS..LR, SNS..C, SNS..LC	HK6501A		75.0
85	SNS..C, SNS..LC, SNS..LR	Ⓢ		

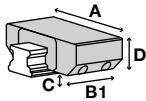
► Series HK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
HK2501A	1200	70.0	20.0	8.0
HK3001A	2000	90.0	22.0	8.0
HK3501A	2000	100.0	24.0	12.0
HK4501A	2000	120.0	26.0	10.0
HK5501A	2000	140.0	30.0	14.0
HK6501A	2000	160.0	35.0	9.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	SNS..C, SNS..LC	Ⓢ		
30	SNS..C, SNS..LC	Ⓢ		
35	SNS..C, SNS..LC	KBH3501IS1		44.0
45	SNS..C, SNS..LC	KBH4501IS1		52.0
55	SNS..C, SNS..LC	KBH5501IS1		63.0
65	SNS..C, SNS..LC	KBH6501IS1		75.0

► Series KBH				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
KBH3501IS1	4300	100	145.0	8.0
KBH4501IS1	7400	120	169.0	10.0
KBH5501IS1	10200	140	208.0	12.0
KBH6501IS1	17000	170	219.0	11.0

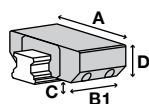


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SNS

Series KWH hydraulic Clamping NO

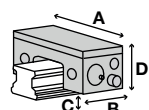
rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..C, SNS..LC	KWH2501IS1		31.0
30	SNS..R, SNS..C, SNS..LC	KWH3001IS1		38.0
35	SNS..R, SNS..C, SNS..LC	KWH3501IS1		44.0
45	SNS..R, SNS..C, SNS..LC	KWH4501IS1		52.0
55	SNS..R, SNS..C, SNS..LC	KWH5501IS1		63.0
65	SNS..R, SNS..C, SNS..LC	KWH6501IS1		75.0
85	SNS..LC	KWH8501IS1	PKW85-8	82.0



▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH2501IS1	1600	70.0	92.0	5.5
KWH3001IS1	2100	90.0	103.5	7.0
KWH3501IS1	4300	100.0	120.5	8.0
KWH4501IS1	7400	120.0	155.0	10.0
KWH5501IS1	10200	140.0	184.0	12.0
KWH6501IS1	17000	170.0	200.0	11.0
KWH8501IS1	13700	165	192.0	14.0

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC	Ⓛ		
30	SNS..R, SNS..LR, SNS..C, SNS..LC	Ⓛ		
35	SNS..CH, SNS..LCH	LBPS3501AS2		48.0
35	SNS..RH, SNS..LRH	LBPS3501AS2	PLK35-7	55.0
35	SNS..R, SNS..LR, SNS..C, SNS..LC	Ⓛ		



▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3501AS2	1900	70.0	124.5	7.50

Series LCE electrical Clamping bistable

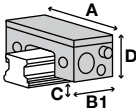
rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC	Ⓛ		
35	SNS..CH, SNS..LCH, SNS..RH, SNS..LRH, SNS..R, SNS..LR, SNS..C, SNS..LC	Ⓛ		

► RAIL TYPE: SNS

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC			
30	SNS..R, SNS..LR, SNS..C, SNS..LC			
35	SNS..CH, SNS..LCH	LKP3501AS2		48.0
35	SNS..RH, SNS..LRH	LKP3501AS2	PLK35-7	55.0
35	SNS..R, SNS..LR, SNS..C, SNS..LC			

► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3501AS2	2500	70.0	68.50	7.50



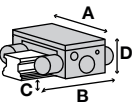
Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC			

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS2501IS1		31
30	SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS3004BS1		38
35	SNS..CH, SNS..LCH	MBPS3504BS1	PMB35-4	48
35	SNS..RH, SNS..LRH	MBPS3504BS1	PMB35-11	55
35	SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS3504BS1		44
45	SNS..CH, SNS..LCH	MBPS4504BS1	PMB45-8	60
45	SNS..RH, SNS..LRH	MBPS4504BS1	PMB45-18	70
45	SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS4504BS1		52
55	SNS..R, SNS..LR, SNS..C, SNS..LC	MBPS5504BS1		63
55	SNS..RH, SNS..LRH	MBPS5504BS1	PMK65-17	80
55	SNS..CH, SNS..LCH	MBPS5504BS1	PMK65-7	70

► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501IS1	750	72	94.0	5.2
MBPS3004BS1	1300	90	98.2	3.0
MBPS3504BS1	2000	100	106.0	5.5
MBPS4504BS1	2600	120	108.7	7.0
MBPS5504BS1	3600	140	113.2	6.0

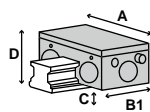


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SNS

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC	MK2501N		31.0
30	SNS..R, SNS..LR, SNS..C, SNS..LC	MK3001A		38.0
35	SNS..CH, SNS..LCH	MK3501A	PMK35-4	48.0
35	SNS..RH, SNS..LRH	MK3501A	PMK35-11	55.0
35	SNS..R, SNS..LR, SNS..C, SNS..LC	MK3501A		44.0
45	SNS..CH, SNS..LCH	MK4501A	PMK45-8	60.0
45	SNS..RH, SNS..LRH	MK4501A	PMK45-18	70.0
45	SNS..R, SNS..LR, SNS..C, SNS..LC	MK4501A		52.0
55	SNS..R, SNS..LR, SNS..C, SNS..LC	MK5501A		63.0
55	SNS..RH, SNS..LRH	MK5501A	PMK55-17	80.0
55	SNS..CH, SNS..LCH	MK5501A	PMK55-7	70.0
65	SNS..R, SNS..LR, SNS..C, SNS..LC	MK6501N		75.0
85	SNS..LC, SNS..LR	MK8501A	PMK85-8	90.0

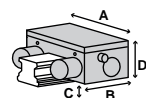


▶ Series MK

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501N	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	3.0
MK3501A	2000	100.0	39.0	7.5
MK4501A	2250	120.0	49.0	8.5
MK5501A	2250	128.0	49.0	14.5
MK6501N	2250	138.0	49.0	16.0
MK8501A	2250	160.0	49.0	23.0

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC	MKS2501N		31.0
30	SNS..R, SNS..LR, SNS..C, SNS..LC	MKS3001A		38.0
35	SNS..CH, SNS..LCH	MKS3501A	PMK35-4	48.0
35	SNS..RH, SNS..LRH	MKS3501A	PMK35-11	55.0
35	SNS..R, SNS..LR, SNS..C, SNS..LC	MKS3501A		44.0
45	SNS..CH, SNS..LCH	MKS4501A	PMK45-8	60.0
45	SNS..RH, SNS..LRH	MKS4501A	PMK45-18	70.0
45	SNS..R, SNS..LR, SNS..C, SNS..LC	MKS4501A		52.0
55	SNS..R, SNS..LR, SNS..C, SNS..LC	MKS5501A		63.0
55	SNS..RH, SNS..LRH	MKS5501A	PMK55-17	80.0
55	SNS..CH, SNS..LCH	MKS5501A	PMK55-7	70.0
65	SNS..R, SNS..LR, SNS..C, SNS..LC	MKS6501N		75.0
85	SNS..LC, SNS..LR	MKS8501A	PMK85-8	90.0







▶ Series MKS

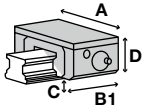
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501N	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	3.0
MKS3501A	1250	100.0	67.0	7.5
MKS4501A	1450	120.0	82.0	8.5
MKS5501A	1450	128.0	82.0	14.5
MKS6501N	1450	138.0	82.0	16.0
MKS8501A	1450	160.0	82.0	23.0

► RAIL TYPE: SNS

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
25	SNS..R, SNS..LR, SNS..C, SNS..LC			
30	SNS..R, SNS..LR, SNS..C, SNS..LC			
35	SNS..CH, SNS..LCH	UBPS3501IS1	PUB35-4	48
35	SNS..RH, SNS..LRH	UBPS3501IS1	PUB35-11	55
35	SNS..R, SNS..LR, SNS..C, SNS..LC	UBPS3501IS1		44
45	SNS..CH, SNS..LCH, SNS..RH, SNS..LRH			
45	SNS..R, SNS..LR, SNS..C, SNS..LC	UBPS4501IS1		52
55	SNS..R, SNS..LR, SNS..C, SNS..LC	UBPS5501IS1L		63
55	SNS..RH, SNS..LRH, SNS..CH, SNS..LCH			
65	SNS..R, SNS..LR, SNS..C, SNS..LC	UBPS6501IS1L		75

► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3501IS1	2500	100	109.0	5.5
UBPS4501IS1	3100	120	109.0	7.0
UBPS5501IS1L	5200	140	197.0	11.0
UBPS6501IS1L	7700	170	197.0	11.0



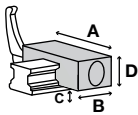
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SR

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	HK1501A		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	HK2001A		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	HK2501A		33.0
30	SR..SB, SR..SBM, SR..TB, SR..TBM, SR..V, SR..VM, SR..W, SR..WM	HK3001A		42.0
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	HK3501A	PMK35-4	48.0
45	SR..W, SR..TB	HK4501A		60.0
55	SR..W, SR..TB	HK5501S		68.0

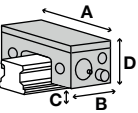
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	18.0
HK5501S	2000	140.0	49.0	19.0



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	LBPS1501AS2		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LBPS2001AS2		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LBPS2501AS2		33.0
30	SR..SB, SR..SBM, SR..TB, SR..TBM, SR..V, SR..VM, SR..W, SR..WM	Ⓢ		
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	LBPS3501AS2		48.0
45	SR..W	Ⓢ		
55	SR..W	Ⓢ		

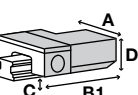
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3501AS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	LCE1501AS1		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LCE2001AS1		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LCE2501AS1	PMK25-1	33.0
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	Ⓢ		

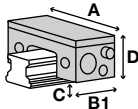
▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1501AS1	600	55.0	115.0	4.75
LCE2001AS1	700	62.8	115.0	7.05
LCE2501AS1	1100	75.0	135.0	4.00



► RAIL TYPE: SR

Series LKP pneumatic Clamping NO

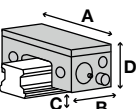
rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	LKP1501AS2		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LKP2001AS2		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LKP2501AS2		33.0
30	SR..SB, SR..SBM, SR..TB, SR..TBM, SR..V, SR..VM, SR..W, SR..WM	Ⓢ		
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	LKP3501AS2		48.0
45	SR..W	Ⓢ		
55	SR..W	Ⓢ		



► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3501AS2	2500	70.0	68.50	7.50

Series LKPS pneumatic Clamping NC

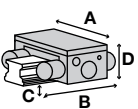
rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	LKPS1501AS2		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LKPS2001AS2		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	LKPS2501AS2		33.0
45	SR..W	Ⓢ		
55	SR..W	Ⓢ		



► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	Ⓢ		
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	Ⓢ		
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	MBPS2501GS1		33
30	SR..SB, SR..SBM, SR..TB, SR..TBM, SR..V, SR..VM, SR..W, SR..WM	MBPS3004BS1		42
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	Ⓢ		
45	SR..W, SR..TB	Ⓢ		
55	SR..W	Ⓢ		



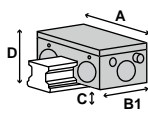
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501GS1	1000	75	95.0	5.5
MBPS3004BS1	1300	90	98.2	7.0

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SR

Series MK pneumatic Clamping NO

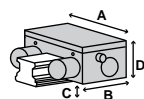
rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	MK1501A		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	MK2001A		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	MK2501A		33.0
30	SR..SB, SR..SBM, SR..TB, SR..TBM, SR..V, SR..VM, SR..W, SR..WM	MK3001A		42.0
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	MK3501A	PMK35-3	48.0
45	SR..W, SR..TB	MK4501A		60.0
55	SR..W, SR..TB	MK5501SR		68.0



▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	8.5
MK4501A	2250	120.0	49.0	16.5
MK5501SR	2250	128.0	49.0	19.5

Series MKS pneumatic Clamping NC



rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	SR..SB, SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SBM	MKS1501A		24.0
20	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	MKS2001A		28.0
25	SR..W, SR..WM, SR..V, SR..VM, SR..TB, SR..TBM, SR..SB, SR..SBM	MKS2501A		33.0
30	SR..SB, SR..SBM, SR..TB, SR..TBM, SR..V, SR..VM, SR..W, SR..WM	MKS3001A		42.0
35	SR..TB, SR..TBM, SR..SB, SR..SBM, SR..V, SR..VM, SR..W, SR..WM	MKS3501A	PMK35-3	48.0
45	SR..W, SR..TB	MKS4501A		60.0
55	SR..W, SR..TB	MKS5501SR		68.0



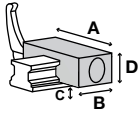
▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	8.5
MKS4501A	1450	120.0	82.0	16.5
MKS5501SR	1450	128.0	82.0	19.5

► RAIL TYPE: SRG

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
15	SRG..A, SRG..V			
20	SRG..A, SRG..LA, SRG..LV, SRG..V			
25	SRG..C, SRG..LC	HK2501A		36.0
25	SRG..R, SRG..LR	HK2501A	PHK25-4	40.0
30	SRG..R, SRG..LR	HK3001E	PHK30-3	45.0
30	SRG..C, SRG..LC	HK3001E		42.0
35	SRG..C, SRG..LC	HK3501E		48.0
35	SRG..R, SRG..LR	HK3501E	PMK35-7	55.0
45	SRG..C, SRG..LC	HK4501E		60.0
45	SRG..R, SRG..LR	HK4501E	PHK45-10	70.0
55	SRG..C, SRG..LC	HK5501E		70.0
55	SRG..R, SRG..LR	HK5501E	PHK55-10	80.0
65	SRG..LC, SRG..LV	HK6504F		90.0

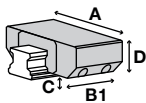
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	13.0
HK3001E	2000	90.0	39.0	9.0
HK3501E	2000	100.0	39.0	7.0
HK4501E	2000	120.0	44.0	12.0
HK5501E	2000	140.0	49.0	19.0
HK6504F	2000	160.0	64.0	24.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
25	SRG..C, SRG..LC	KBH2501ES1		36.0
30	SRG..C, SRG..LC	KBH3001ES1		42.0
35	SRG..L, SRG..LR	KBH3501ES3		55.0
35	SRG..C, SRG..LC	KBH3501ES1		48.0
45	SRG..C, SRG..LC	KBH4501ES1		60.0
45	SRG..R, SRG..LR	KBH4501ES3	PKW45-2-01	68.0
55	SRG..C, SRG..LC	KBH5501ES1		70.0
65	SRG..LC, SRG..C	KBH6501ES1		90.0

► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH2501ES1	2200	70	100.0	6.5
KBH3001ES1	3000	90	111.5	7.0
KBH3501ES3	3500	70	128.5	6.0
KBH3501ES1	5700	100	128.5	8.0
KBH4501ES1	9900	120	163.0	10.0
KBH4501ES3	7400	86	163.0	8.0
KBH5501ES1	13700	140	192.0	13.0
KBH6501ES1	22700	170	235.0	11.5



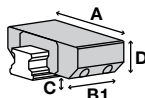
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SRG

Series KBHS hydraulic Clamping and braking NC

rail size	▶ Carriage type	▶ Series KBHS		
		Order No.	Adapter plate*	D [mm]
35	SRG..C, SRG..LC	KBHS3501ES1A		48
45	SRG..C, SRG..LC	KBHS4501ES1A		60
55	SRG..C, SRG..LC	KBHS5501ES1A		70
65	SRG..LC	KBHS6501ES1A		90

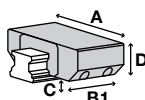
▶ Series KBHS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBHS3501ES1A	7500	100	155	6.0
KBHS4501ES1A	9000	120	180	8.0
KBHS5501ES1A	11500	140	214	10.0
KBHS6501ES1A	16000	170	270	11.0



Series KWH hydraulic Clamping NO

rail size	▶ Carriage type	▶ Series KWH		
		Order No.	Adapter plate*	D [mm]
25	SRG..C, SRG..LC	KWH2501ES1		36.0
30	SRG..C, SRG..LC	KWH3001ES1		42.0
35	SRG..C, SRG..LC	KWH3501ES1		48.0
35	SRG..R, SRG..LR	KWH3501ES3		55.0
45	SRG..C, SRG..LC	KWH4501ES1		60.0
45	SRG..R, SRG..LR	KWH4501ES3	PKW45-2-01	68.0
55	SRG..C, SRG..LC	KWH5501ES1		70.0
55	SRG..R, SRG..LR	KWH5501ES3		80.0
65	SRG..LC	KWH6501ES1		90.0
85	SRG..LC	KWH8501ES1		110.0
100	SRG..LC	KWH10001ES1		120.0

▶ Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH10001ES1	34000	250	208.0	15.0
KWH2501ES1	2200	70.0	92.0	6.5
KWH3001ES1	3000	90.0	103.5	7.0
KWH3501ES1	5700	100.0	120.5	8.0
KWH3501ES3	5700	70.0	120.5	6.5
KWH4501ES1	9900	120.0	155.0	10.0
KWH4501ES3	7400	86.0	155.0	8.0
KWH5501ES1	13700	140.0	184.0	13.0
KWH5501ES3	13700	100.0	184.0	9.0
KWH6501ES1	22700	170.0	227.0	11.5
KWH8501ES1	27400	215	192.0	16.0

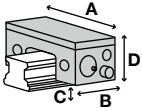


► RAIL TYPE: SRG


Series LBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	SRG..A, SRG..V	LBPS1501AS2		24.0
20	SRG..A, SRG..LA, SRG..LV, SRG..V	LBPS2001AS2		30.0
25	SRG..C, SRG..LC	LBPS2501AS2		36.0
25	SRG..R, SRG..LR	LBPS2501AS2	PLK25-4	40.0
30	SRG..R, SRG..LR	LBPS3001ES2	PLK30-3	45.0
30	SRG..C, SRG..LC	LBPS3001ES2		42.0
35	SRG..C, SRG..LC	LBPS3501ES2		48.0
35	SRG..R, SRG..LR	LBPS3501ES2	PLK35-7	55.0
45	SRG..R, SRG..LR			
55	SRG..R, SRG..LR			

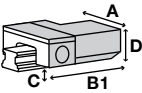
► Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	5.50
LBPS2501AS2	750	48.0	86.0	7.50
LBPS3001ES2	1200	60.0	109.5	7.00
LBPS3501ES2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	► Carriage type	► Series LCE		
		Order No.	Adapter plate*	D [mm]
15	SRG..A, SRG..V	LCE1501ES1		24.0
20	SRG..A, SRG..LA, SRG..LV, SRG..V	LCE2001AS1		30.0
25	SRG..C, SRG..LC	LCE2501ES1	PMK25-1	36.0
25	SRG..R, SRG..LR	LCE2501ES1	PMK25-5	40.0
35	SRG..C, SRG..LC, SRG..R, SRG..LR			

► Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1501ES1	600	55.0	115.0	4.75
LCE2001AS1	700	62.8	115.0	9.05
LCE2501ES1	1100	75.0	135.0	7.00



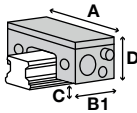
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SRG

Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate *	D [mm]
15	SRG..A, SRG..V	LKP1501AS2		24.0
20	SRG..A, SRG..LA, SRG..LV, SRG..V	LKP2001AS2		30.0
25	SRG..C, SRG..LC	LKP2501AS2		36.0
25	SRG..R, SRG..LR	LKP2501AS2	PLK25-4	40.0
30	SRG..R, SRG..LR	LKP3001ES2	PLK30-3	45.0
30	SRG..C, SRG..LC	LKP3001ES2		42.0
35	SRG..C, SRG..LC	LKP3501ES2		48.0
35	SRG..R, SRG..LR	LKP3501ES2	PLK35-7	55.0
45	SRG..R, SRG..LR	⌚		
55	SRG..R, SRG..LR	⌚		

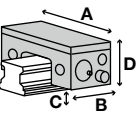
▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	5.50
LKP2501AS2	1100	48.0	57.00	7.50
LKP3001ES2	1800	60.0	66.50	7.00
LKP3501ES2	2500	70.0	68.50	7.50



Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate *	D [mm]
15	SRG..A, SRG..V	LKPS1501AS2		24.0
20	SRG..A, SRG..LA, SRG..LV, SRG..V	LKPS2001AS2		30.0
25	SRG..C, SRG..LC	LKPS2501AS2		36.0
25	SRG..R, SRG..LR	LKPS2501AS2	PLK25-4	40.0
45	SRG..R, SRG..LR	⌚		
55	SRG..R, SRG..LR	⌚		

▶ Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	5.50
LKPS2501AS2	750	48.0	86.0	7.50

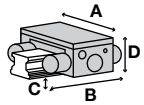


► RAIL TYPE: SRG

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	SRG..A, SRG..V	MBPS1501ES1		24
20	SRG..A, SRG..LA, SRG..LV, SRG..V	MBPS2001ES1		30
25	SRG..C, SRG..LC	MBPS2501ES1		36
25	SRG..R, SRG..LR	MBPS2501ES1	PMB25-4	40
30	SRG..R, SRG..LR	MBPS3001ES1	PMB30-3	45
30	SRG..C, SRG..LC	MBPS3001ES1		42
35	SRG..C, SRG..LC	MBPS3501ES1		48
35	SRG..R, SRG..LR	MBPS3501ES1	PMB35-7	55
45	SRG..C, SRG..LC	MBPS4501ES1		60
45	SRG..R, SRG..LR	MBPS4501ES1	PMB45-10	70
55	SRG..C, SRG..LC	MBPS5501ES1	PMB55-3	70
55	SRG..R, SRG..LR	MBPS5501ES1	PMB55-13	80

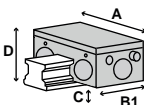
► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS1501ES1	750	61	94.0	2.5
MBPS2001ES1	750	66	94.0	4.2
MBPS2501ES1	1300	75	95.2	3.5
MBPS3001ES1	1300	90	98.2	7.0
MBPS3501ES1	2600	100	105.7	6.0
MBPS4501ES1	3600	120	113.2	8.0
MBPS5501ES1	4700	140	144.0	8.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
15	SRG..A, SRG..V	MK1501E		24.0
20	SRG..A, SRG..LA, SRG..LV, SRG..V	MK2001E		30.0
25	SRG..C, SRG..LC	MK2501E	PMK25-5	36.0
25	SRG..R, SRG..LR	MK2501E	PMK25-9	40.0
30	SRG..R, SRG..LR	MK3001E	PMK30-3	45.0
30	SRG..C, SRG..LC	MK3001E		42.0
35	SRG..C, SRG..LC	MK3501E		48.0
35	SRG..R, SRG..LR	MK3501E	PMK35-7	55.0
45	SRG..C, SRG..LC	MK4501E		60.0
45	SRG..R, SRG..LR	MK4501E	PMK45-10	70.0
55	SRG..C, SRG..LC	MK5501F	PMK55-7	70.0
55	SRG..R, SRG..LR	MK5501F	PMK55-17	80.0
65	SRG..LC, SRG..LV	MK6501E		90.0

► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501E	650	55.0	39.0	3.2
MK2001E	1000	66.0	39.0	3.0
MK2501E	1200	75.0	35.0	3.5
MK3001E	1200	90.0	39.0	5.0
MK3501E	2000	100.0	39.0	4.0
MK4501E	2250	120.0	49.0	8.0
MK5501F	2250	128.0	49.0	10.0
MK6501E	2250	138.0	49.0	16.5



- ▶ * Adapter plate and clamping element must be ordered together
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- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

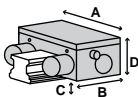
▶ RAIL TYPE: SRG

Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate *	D [mm]
15	SRG..A, SRG..V	MKS1501E		24.0
20	SRG..A, SRG..LA, SRG..LV, SRG..V	MKS2001E		30.0
25	SRG..C, SRG..LC	MKS2501E	PMK25-5	36.0
25	SRG..R, SRG..LR	MKS2501E	PMK25-9	40.0
30	SRG..R, SRG..LR	MKS3001E	PMK30-3	45.0
30	SRG..C, SRG..LC	MKS3001E		42.0
35	SRG..C, SRG..LC	MKS3501E		48.0
35	SRG..R, SRG..LR	MKS3501E	PMK35-7	55.0
45	SRG..C, SRG..LC	MKS4501E		60.0
45	SRG..R, SRG..LR	MKS4501E	PMK45-10	70.0
55	SRG..C, SRG..LC	MKS5501F	PMK55-7	70.0
55	SRG..R, SRG..LR	MKS5501F	PMK55-17	80.0
65	SRG..LC, SRG..LV	MKS6501E		90.0
85	SRG..LC	Ⓢ		

▶ Series MKS

Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501E	400	55.0	58.0	3.2
MKS2001E	600	66.0	61.0	3.0
MKS2501E	750	75.0	56.0	3.5
MKS3001E	750	90.0	60.0	5.0
MKS3501E	1250	100.0	67.0	4.0
MKS4501E	1450	120.0	82.0	8.0
MKS5501F	1450	128.0	82.0	10.0
MKS6501E	1450	138.0	82.0	16.5



TRACK MANUFACTURER

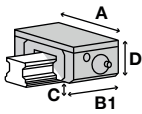


► RAIL TYPE: SRG

Series UBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series UBPS		
		Order No.	Adapter plate*	D [mm]
20	SRG..A, SRG..LA, SRG..LV, SRG..V			
25	SRG..C, SRG..LC	UBPS2501ES1	PUB25-1-5	36
25	SRG..R, SRG..LR	UBPS2501ES1	PUB25-5-5	40
30	SRG..R, SRG..LR	UBPS3001ES1	PUB30-3	45
30	SRG..C, SRG..LC	UBPS3001ES1		42
35	SRG..C, SRG..LC	UBPS3501ES1		48
35	SRG..C, SRG..LC	UBPS3501ES1L		48
35	SRG..R, SRG..LR	UBPS3501ES1	PUB35-7	55
35	SRG..R, SRG..LR	UBPS3501ES1L	PUBL35-7	55
45	SRG..C, SRG..LC	UBPS4501ES1L		60
45	SRG..R, SRG..LR	UBPS4501ES1L	PUBL45-10	70
55	SRG..C, SRG..LC	UBPS5501ES1L		70
55	SRG..R, SRG..LR	UBPS5501ES1L	PUBL55-10	80
65	SRG..LC, SRG..LV	UBPS6501ES1L		90

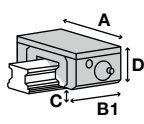
► Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS2501ES1	1500	70	99.0	3.5
UBPS3001ES1	1750	90	109.0	5.0
UBPS3501ES1	2800	100	109.0	6.0
UBPS3501ES1L	3200	100	152.0	6.0
UBPS4501ES1L	5200	120	197.0	8.0
UBPS5501ES1L	7700	140	197.0	10.0
UBPS6501ES1L	7700	170	197.0	11.5



- ▶ * Adapter plate and clamping element must be ordered together
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- ▶ NC = Elements are opened when pressurized


▶ RAIL TYPE: SRN

Series UBPS pneumatic Clamping and braking NC

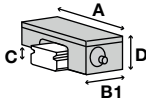
rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
45	SRN..C, SRN..LC, SRN..R, SRN..LR	UBPS4501FS1		52
	▶ Series UBPS			
	Version	Holding force [N]	A [mm]	B1 [mm]
UBPS4501FS1	3100	120	109.0	7.0

► RAIL TYPE: SRS


Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
7	SRS..M			
9	SRS..M, SRS..N	MCP0901H		10.0
12	SRS..M, SRS..N	MCP1201A		13.0
15	SRS..M, SRS..N	MCP1501H		16.0
20	SRS..M	MCP2001A		20.0
25	SRS..M	MCP2501H		25.0

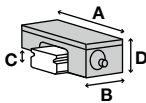
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP1201A	280	37.5	34.0	2.95
MCP1501H	320	41.5	34.0	3.95
MCP2001A	550	48.7	41.0	2.45
MCP2501H	550	54.4	41.0	5.05
MCP0901H	130	32.5	34.0	2.15



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
7	SRS..M			
9	SRS..M, SRS..N	MCPS0901H		10.0
12	SRS..M, SRS..N	MCPS1201A		13.0
15	SRS..M, SRS..N	MCPS1501H		16.0
20	SRS..M	MCPS2001A		20.0
25	SRS..M	MCPS2501H		25.0

► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS1201A	240	37.5	52.5	2.95
MCPS1501H	280	41.5	52.5	3.95
MCPS2001A	400	48.7	60.0	2.45
MCPS2501H	400	54.4	60.0	5.05
MCPS0901H	80	32.5	52.5	2.15



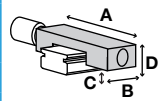
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
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- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SRS

Series miniHK manual Clamping bistable

rail size	▶ Carriage type	▶ Series miniHK		
		Order No.	Adapter plate *	D [mm]
5	SRS..M	HK0500M		6.0
5	SRS..M	⊗		
7	SRS..M	HK0700M		8.0
7	SRS..M	⊗		
9	SRS..M, SRS..N	HK0900M		10.0
12	SRS..M, SRS..N	HK1200M		13.0
15	SRS..M, SRS..N	HK1500M		16.0
20	SRS..M	HK2000M		20.0
25	SRS..M	HK2500M		25.0

▶ Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200M	150	27.0	19.0	3.5
HK1500M	180	32.0	20.0	5.0
HK2000M	220	46.0	26.0	5.0
HK2500M	300	48.0	35.0	5.0
HK0500M	40	12.0	14.0	1.5
HK0700M	65	17.0	12.0	2.0
HK0900M	100	20.0	17.0	2.7

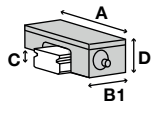


► RAIL TYPE: SRS-W

Series MCP pneumatic Clamping NO

rail size	► Carriage type	► Series MCP		
		Order No.	Adapter plate*	D [mm]
9	SRS..WM, SRS..WN	MCP0900MW		12.0

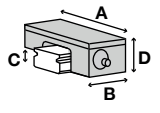
► Series MCP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MCP0900MW	130	42.3	34.0	2.95



Series MCPS pneumatic Clamping NC

rail size	► Carriage type	► Series MCPS		
		Order No.	Adapter plate*	D [mm]
9	SRS..WM, SRS..WN	MCPS0900MW		12.0

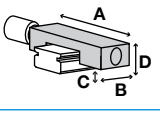
► Series MCPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MCPS0900MW	80	42.3	52.5	2.95



Series miniHK manual Clamping bistable

rail size	► Carriage type	► Series miniHK		
		Order No.	Adapter plate*	D [mm]
5	SRS..WM	⊗		
7	SRS..WN	HK0700MW		9.0
7	SRS..WN	⊗		
9	SRS..WM, SRS..WN	HK0900MW		12.0
12	SRS..WM, SRS..WN	HK1200MW		14.0
15	SRS..WM, SRS..WN	HK1500MW		16.0

► Series miniHK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1200MW	150	40.0	19.0	4.0
HK1500MW	180	60.0	22.0	4.5
HK0700MW	65	25.0	12.0	3.0
HK0900MW	100	30.0	17.0	4.2



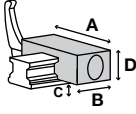
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SSR

Series HK manual Clamping bistable

rail size	▶ Carriage type	▶ Series HK		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	HK1501A		24.0
20	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	HK2001A		28.0
25	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	HK2501A		33.0
30	SSR..XW, SSR..XWM	HK3001A		42.0
35	SSR..XW	HK3501A	PMK35-4	48.0

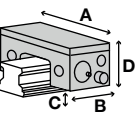
▶ Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK1501A	1200	47.0	24.0	6.5
HK2001A	1200	60.0	24.0	8.0
HK2501A	1200	70.0	30.0	10.0
HK3001A	2000	90.0	39.0	12.0
HK3501A	2000	100.0	39.0	12.0



Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LBPS1501AS2		24.0
20	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM	LBPS2001AS2		28.0
25	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LBPS2501AS2		33.0
30	SSR..XW, SSR..XWM	LBPS3001AS2		42.0
35	SSR..XW	LBPS3501AS2		48.0

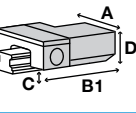
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS1501AS2	400	34.0	76.0	3.30
LBPS2001AS2	600	44.0	81.0	3.50
LBPS2501AS2	750	48.0	86.0	4.50
LBPS3001AS2	1200	60.0	109.5	7.00
LBPS3501AS2	1900	70.0	124.5	7.50



Series LCE electrical Clamping bistable

rail size	▶ Carriage type	▶ Series LCE		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LCE1501AS1		24.0
20	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LCE2001AS1		28.0
25	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LCE2501AS1	PMK25-1	33.0
35	SSR..XW			

▶ Series LCE				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LCE1501AS1	600	55.0	115.0	4.75
LCE2001AS1	700	62.8	115.0	7.05
LCE2501AS1	1100	75.0	135.0	4.00

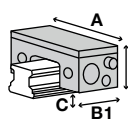


► RAIL TYPE: SSR

Series LKP pneumatic Clamping NO

rail size	► Carriage type	► Series LKP		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LKP1501AS2		24.0
20	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM	LKP2001AS2		28.0
25	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LKP2501AS2		33.0
30	SSR..XW, SSR..XWM	LKP3001AS2		42.0
35	SSR..XW	LKP3501AS2		48.0

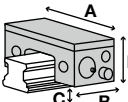
► Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP1501AS2	550	34.0	49.00	3.30
LKP2001AS2	850	44.0	52.00	3.50
LKP2501AS2	1100	48.0	57.00	4.50
LKP3001AS2	1800	60.0	66.50	7.00
LKP3501AS2	2500	70.0	68.50	7.50



Series LKPS pneumatic Clamping NC

rail size	► Carriage type	► Series LKPS		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LKPS1501AS2		24.0
20	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM	LKPS2001AS2		28.0
25	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	LKPS2501AS2		33.0

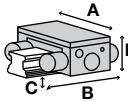
► Series LKPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LKPS1501AS2	400	34.0	76.0	3.30
LKPS2001AS2	600	44.0	81.0	3.50
LKPS2501AS2	750	48.0	86.0	4.50



Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	Ⓢ		
20	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	Ⓢ		
25	SSR..XWM, SSR..XVM, SSR..XTB	MBPS2501GS1		33
30	SSR..XW, SSR..XWM	MBPS3004BS1		42
35	SSR..XW	Ⓢ		

► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501GS1	1000	75	95.0	5.5
MBPS3004BS1	1300	90	98.2	7.0



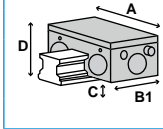
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SSR

Series MK pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series MK		
		Order No.	Adapter plate*	D [mm]
15	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	MK1501A		24.0
20	SSR..XW, SSR..XV, SSR..XTB	MK2001A		28.0
25	SSR..XW, SSR..XWM, SSR..XV, SSR..XVM, SSR..XTB	MK2501A		33.0
30	SSR..XW	MK3001A		42.0
35	SSR..XW	MK3501A	PMK35-3	48.0

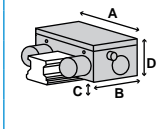
▶ Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK1501A	650	55.0	39.0	2.5
MK2001A	1000	66.0	39.0	2.5
MK2501A	1200	75.0	35.0	5.0
MK3001A	1750	90.0	39.0	7.0
MK3501A	2000	100.0	39.0	8.5



Series MKS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
15	SSR..XWY, SSR..XVY, SSR..XTBY	MKS1501A		24.0
20	SSR..XW, SSR..XV, SSR..XTB	MKS2001A		28.0
25	SSR..XWY, SSR..XVY, SSR..XTBY	MKS2501A		33.0
30	SSR..XW	MKS3001A		42.0
35	SSR..XW	MKS3501A	PMK35-3	48.0

▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS1501A	400	55.0	58.0	2.5
MKS2001A	600	66.0	61.0	2.5
MKS2501A	750	75.0	56.0	5.0
MKS3001A	1050	90.0	68.0	7.0
MKS3501A	1250	100.0	67.0	8.5

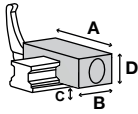


► RAIL TYPE: SVR

Series HK manual Clamping bistable

rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	HK2501A		31.0
30	SVR..R, SVR..LR, SVR..C, SVR..LC	HK3001A		38.0
35	SVR..CH, SVR..LCH	HK3501A	PMK35-4	48.0
35	SVR..RH, SVR..LRH	HK3501A	PMK35-11	55.0
35	SVR..R, SVR..LR, SVR..C, SVR..LC	HK3501A		44.0
45	SVR..R, SVR..LR, SVR..C, SVR..LC	HK4501A		52.0
45	SVR..CH, SVR..LCH	HK4501A	PHK45-8	60.0
45	SVR..RH, SVR..LRH	HK4501A	PHK45-18	70.0
55	SVR..R, SVR..LR, SVR..C, SVR..LC	HK5501A		63.0
55	SVR..RH, SVR..LRH	HK5501A	PHK55-7	70.0
55	SVR..CH, SVR..LCH	HK5501A	PHK55-17	80.0
65	SVR..R, SVR..LR, SVR..C, SVR..LC	HK6501A		75.0

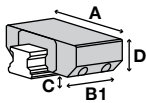
► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	8.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	10.0
HK5501A	2000	140.0	49.0	14.0
HK6501A	2000	160.0	64.0	9.0



Series KBH hydraulic Clamping and braking NO

rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
65	SVR..R, SVR..LR, SVR..C, SVR..LC	KBH6501PS1		75.0

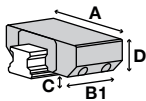
► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH6501PS1	17000	170	208.0	11.0



Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
45	SVR..R, SVR..LR, SVR..C, SVR..LC	KWH4501PS1		52.0
55	SVR..R, SVR..LR, SVR..C, SVR..LC	KWH5501PS1		63.0
65	SVR..R, SVR..LR, SVR..C, SVR..LC	KWH6501PS1		75.0

► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH4501PS1	7400	120.0	155.0	10.0
KWH5501PS1	10200	140.0	184.0	12.0
KWH6501PS1	17000	170.0	200.0	11.0



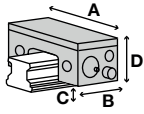
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SVR

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	☉		
30	SVR..R, SVR..LR, SVR..C, SVR..LC	☉		
35	SVR..CH, SVR..LCH	LBPS3501AS2		48.0
35	SVR..RH, SVR..LRH	LBPS3501AS2	PLK35-7	55.0

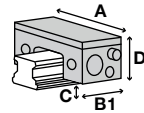
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3501AS2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	☉		
30	SVR..R, SVR..LR, SVR..C, SVR..LC	☉		
35	SVR..CH, SVR..LCH	LKP3501AS2		48.0
35	SVR..RH, SVR..LRH	LKP3501AS2	PLK35-7	55.0

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3501AS2	2500	70.0	68.50	7.50



Series LKPS pneumatic Clamping NC

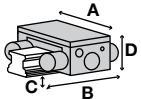
rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	☉		

► RAIL TYPE: SVR

Series MBPS pneumatic Clamping and braking NC

rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	MBPS2501S1		31
30	SVR..R, SVR..LR, SVR..C, SVR..LC	MBPS3004BS1		38
35	SVR..CH, SVR..LCH	MBPS3504BS1	PMB35-4	48
35	SVR..RH, SVR..LRH	MBPS3504BS1	PMB35-11	55
35	SVR..R, SVR..LR, SVR..C, SVR..LC	MBPS3504BS1		44
45	SVR..R, SVR..LR, SVR..C, SVR..LC	MBPS4504BS1		52
45	SVR..CH, SVR..LCH	MBPS4504BS1	PMB45-8	60
45	SVR..RH, SVR..LRH	MBPS4504BS1	PMB45-18	70
55	SVR..R, SVR..LR, SVR..C, SVR..LC	MBPS5504BS1		63
55	SVR..RH, SVR..LRH	MBPS5504BS1	PMK65-17	80
55	SVR..CH, SVR..LCH	MBPS5504BS1	PMK65-7	70

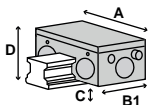
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501S1	750	72	94.0	5.2
MBPS3004BS1	1300	90	98.2	3.0
MBPS3504BS1	2000	100	106.0	5.5
MBPS4504BS1	2600	120	108.7	7.0
MBPS5504BS1	3600	140	113.2	6.0



Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	MK2501N		31.0
30	SVR..R, SVR..LR, SVR..C, SVR..LC	MK3001A		38.0
35	SVR..CH, SVR..LCH	MK3501A	PMK35-7	48.0
35	SVR..RH, SVR..LRH	MK3501A	PMK35-14	55.0
35	SVR..R, SVR..LR, SVR..C, SVR..LC	MK3501A	PMK35-3	44.0
45	SVR..R, SVR..LR, SVR..C, SVR..LC	MK4501A		52.0
45	SVR..CH, SVR..LCH	MK4501A	PMK45-8	60.0
45	SVR..RH, SVR..LRH	MK4501A	PMK45-18	70.0
55	SVR..R, SVR..LR, SVR..C, SVR..LC	MK5501A		63.0
55	SVR..RH, SVR..LRH	MK5501A	PMK55-17	80.0
55	SVR..CH, SVR..LCH	MK5501A	PMK55-7	70.0
65	SVR..R, SVR..LR, SVR..C, SVR..LC	MK6501N		75.0

Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501N	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	3.0
MK3501A	2000	100.0	39.0	4.5
MK4501A	2250	120.0	49.0	8.5
MK5501A	2250	128.0	49.0	14.5
MK6501N	2250	138.0	49.0	16.0

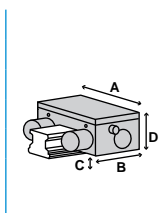


- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SVR

Series MKS pneumatic Clamping NC

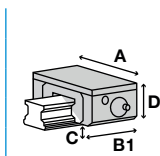
rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	SVR..R, SVR..LR, SVR..C, SVR..LC	MKS2501N		31.0
30	SVR..R, SVR..LR, SVR..C, SVR..LC	MKS3001A		38.0
35	SVR..CH, SVR..LCH	MKS3501A	PMK35-7	48.0
35	SVR..RH, SVR..LRH	MKS3501A	PMK35-14	55.0
35	SVR..R, SVR..LR, SVR..C, SVR..LC	MKS3501A	PMK35-3	44.0
45	SVR..R, SVR..LR, SVR..C, SVR..LC	MKS4501A		52.0
45	SVR..CH, SVR..LCH	MKS4501A	PMK45-8	60.0
45	SVR..RH, SVR..LRH	MKS4501A	PMK45-18	70.0
55	SVR..R, SVR..LR, SVR..C, SVR..LC	MKS5501A		63.0
55	SVR..RH, SVR..LRH	MKS5501A	PMK55-17	80.0
55	SVR..CH, SVR..LCH	MKS5501A	PMK55-7	70.0
65	SVR..R, SVR..LR, SVR..C, SVR..LC	MKS6501N		75.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501N	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	3.0
MKS3501A	1250	100.0	67.0	4.5
MKS4501A	1450	120.0	82.0	8.5
MKS5501A	1450	128.0	82.0	14.5
MKS6501N	1450	138.0	82.0	16.0

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
35	SVR..CH, SVR..LCH	UBPS3501PS1	PUB35-4	48
35	SVR..RH, SVR..LRH	UBPS3501PS1	PUB35-11	55
35	SVR..R, SVR..LR, SVR..C, SVR..LC	UBPS3501PS1		44
45	SVR..R, SVR..LR, SVR..C, SVR..LC	UBPS4501PS1		52
45	SVR..CH, SVR..LCH	UBPS4501PS1	PUB45-8	60
45	SVR..RH, SVR..LRH	UBPS4501PS1	PUB45-18	70
55	SVR..R, SVR..LR, SVR..C, SVR..LC	UBPS5501PS1L		63
55	SVR..RH, SVR..LRH	UBPS5501PS1L	PUBL55-17	80
55	SVR..CH, SVR..LCH	UBPS5501PS1L	PUBL55-7	70
65	SVR..R, SVR..LR, SVR..C, SVR..LC	UBPS6501PS1L		75

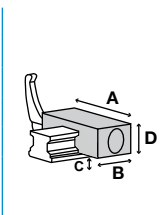


▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3501PS1	2500	100	109.0	5.5
UBPS4501PS1	2800	120	109.0	7.0
UBPS5501PS1L	5200	140	197.0	11.0
UBPS6501PS1L	7700	170	197.0	11.0

► RAIL TYPE: SVS

Series HK manual Clamping bistable

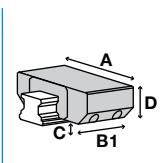
rail size	► Carriage type	► Series HK		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	HK2501A		31.0
30	SVS..R, SVS..LR, SVS..C, SVS..LC	HK3001A		38.0
35	SVS..CH, SVS..LCH	HK3501A	PMK35-4	48.0
35	SVS..RH, SVS..LRH	HK3501A	PMK35-11	55.0
35	SVS..R, SVS..LR, SVS..C, SVS..LC	HK3501A		44.0
45	SVS..R, SVS..LR, SVS..C, SVS..LC	HK4501A		52.0
45	SVS..CH, SVS..LCH	HK4501A	PHK45-8	60.0
45	SVS..RH, SVS..LRH	HK4501A	PHK45-18	70.0
55	SVS..CH	HK5501A	PHK55-17	80.0
55	SVS..RH, SVS..LRH	HK5501A	PHK55-7	70.0
55	SVS..R, SVS..LR, SVS..C, SVS..LC	HK5501A		63.0
65	SVS..R, SVS..LR, SVS..C, SVS..LC	HK6501A		75.0



► Series HK				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
HK2501A	1200	70.0	30.0	8.0
HK3001A	2000	90.0	39.0	8.0
HK3501A	2000	100.0	39.0	12.0
HK4501A	2000	120.0	44.0	10.0
HK5501A	2000	140.0	49.0	14.0
HK6501A	2000	160.0	64.0	9.0

Series KBH hydraulic Clamping and braking NO

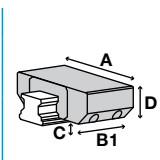
rail size	► Carriage type	► Series KBH		
		Order No.	Adapter plate*	D [mm]
65	SVS..R, SVS..LR, SVS..C, SVS..LC	KBH6501PS1		75.0



► Series KBH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KBH6501PS1	17000	170	208.0	11.0

Series KWH hydraulic Clamping NO

rail size	► Carriage type	► Series KWH		
		Order No.	Adapter plate*	D [mm]
45	SVS..R, SVS..LR, SVS..C, SVS..LC	KWH4501PS1		52.0
55	SVS..R, SVS..LR, SVS..C, SVS..LC	KWH5501PS1		63.0
65	SVS..R, SVS..LR, SVS..C, SVS..LC	KWH6501PS1		75.0



► Series KWH				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
KWH4501PS1	7400	120.0	155.0	10.0
KWH5501PS1	10200	140.0	184.0	12.0
KWH6501PS1	17000	170.0	200.0	11.0

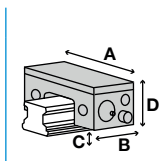
- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SVS

Series LBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series LBPS		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	☉		
30	SVS..R, SVS..LR, SVS..C, SVS..LC	☉		
35	SVS..CH, SVS..LCH	LBPS3501AS2		48.0
35	SVS..RH, SVS..LRH	LBPS3501AS2	PLK35-7	55.0

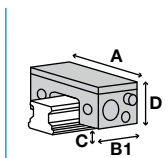
▶ Series LBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
LBPS3501AS2	1900	70.0	124.5	7.50



Series LKP pneumatic Clamping NO

rail size	▶ Carriage type	▶ Series LKP		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	☉		
30	SVS..R, SVS..LR, SVS..C, SVS..LC	☉		
35	SVS..CH, SVS..LCH	LKP3501AS2		48.0
35	SVS..RH, SVS..LRH	LKP3501AS2	PLK35-7	55.0

▶ Series LKP				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
LKP3501AS2	2500	70.0	68.50	7.50



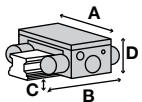
Series LKPS pneumatic Clamping NC

rail size	▶ Carriage type	▶ Series LKPS		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	☉		

► RAIL TYPE: SVS

Series MBPS pneumatic Clamping and braking NC

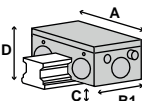
rail size	► Carriage type	► Series MBPS		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	MBPS2501S1		31
30	SVS..R, SVS..LR, SVS..C, SVS..LC	MBPS3004BS1		38
35	SVS..CH, SVS..LCH	MBPS3504BS1	PMB35-4	48
35	SVS..RH, SVS..LRH	MBPS3504BS1	PMB35-11	55
35	SVS..R, SVS..LR, SVS..C, SVS..LC	MBPS3504BS1		44
45	SVS..R, SVS..LR, SVS..C, SVS..LC	MBPS4504BS1		52
45	SVS..CH, SVS..LCH	MBPS4504BS1	PMB45-8	60
45	SVS..RH, SVS..LRH	MBPS4504BS1	PMB45-18	70
55	SVS..CH	MBPS5504BS1	PMK65-7	70
55	SVS..RH, SVS..LRH	MBPS5504BS1	PMK65-17	80
55	SVS..R, SVS..LR, SVS..C, SVS..LC	MBPS5504BS1		63



► Series MBPS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MBPS2501S1	750	72	94.0	5.2
MBPS3004BS1	1300	90	98.2	3.0
MBPS3504BS1	2000	100	106.0	5.5
MBPS4504BS1	2600	120	108.7	7.0
MBPS5504BS1	3600	140	113.2	6.0

Series MK pneumatic Clamping NO

rail size	► Carriage type	► Series MK		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	MK2501N		31.0
30	SVS..R, SVS..LR, SVS..C, SVS..LC	MK3001A		38.0
35	SVS..CH, SVS..LCH	MK3501A	PMK35-7	48.0
35	SVS..RH, SVS..LRH	MK3501A	PMK35-14	55.0
35	SVS..R, SVS..LR, SVS..C, SVS..LC	MK3501A	PMK35-3	44.0
45	SVS..R, SVS..LR, SVS..C, SVS..LC	MK4501A		52.0
45	SVS..CH, SVS..LCH	MK4501A	PMK45-8	60.0
45	SVS..RH, SVS..LRH	MK4501A	PMK45-18	70.0
55	SVS..CH	MK5501A	PMK55-7	70.0
55	SVS..RH, SVS..LRH	MK5501A	PMK55-17	80.0
55	SVS..R, SVS..LR, SVS..C, SVS..LC	MK5501A		63.0
65	SVS..R, SVS..LR, SVS..C, SVS..LC	MK6501N		75.0



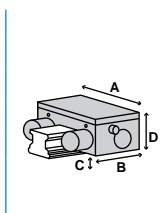
► Series MK				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
MK2501N	1200	75.0	35.0	3.0
MK3001A	1750	90.0	39.0	3.0
MK3501A	2000	100.0	39.0	4.5
MK4501A	2250	120.0	49.0	8.5
MK5501A	2250	128.0	49.0	14.5
MK6501N	2250	138.0	49.0	16.0

- ▶ * Adapter plate and clamping element must be ordered together
- ▶ ** Tested with lightly oiled lubricating layer (ISO VG 68)
- ▶ Bi-stable = Elements remain in current position
- ▶ NO = Elements are closed when pressurized
- ▶ NC = Elements are opened when pressurized

▶ RAIL TYPE: SVS

Series MKS pneumatic Clamping NC

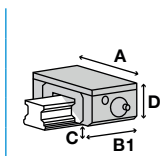
rail size	▶ Carriage type	▶ Series MKS		
		Order No.	Adapter plate*	D [mm]
25	SVS..R, SVS..LR, SVS..C, SVS..LC	MKS2501N		31.0
30	SVS..R, SVS..LR, SVS..C, SVS..LC	MKS3001A		38.0
35	SVS..CH, SVS..LCH	MKS3501A	PMK35-7	48.0
35	SVS..RH, SVS..LRH	MKS3501A	PMK35-14	55.0
35	SVS..R, SVS..LR, SVS..C, SVS..LC	MKS3501A	PMK35-3	44.0
45	SVS..R, SVS..LR, SVS..C, SVS..LC	MKS4501A		52.0
45	SVS..CH, SVS..LCH	MKS4501A	PMK45-8	60.0
45	SVS..RH, SVS..LRH	MKS4501A	PMK45-18	70.0
55	SVS..CH	MKS5501A	PMK55-7	70.0
55	SVS..RH, SVS..LRH	MKS5501A	PMK55-17	80.0
55	SVS..R, SVS..LR, SVS..C, SVS..LC	MKS5501A		63.0
65	SVS..R, SVS..LR, SVS..C, SVS..LC	MKS6501N		75.0



▶ Series MKS				
Version	Holding force [N]	A [mm]	B [mm]	C [mm]
MKS2501N	750	75.0	56.0	3.0
MKS3001A	1050	90.0	68.0	3.0
MKS3501A	1250	100.0	67.0	4.5
MKS4501A	1450	120.0	82.0	8.5
MKS5501A	1450	128.0	82.0	14.5
MKS6501N	1450	138.0	82.0	16.0

Series UBPS pneumatic Clamping and braking NC

rail size	▶ Carriage type	▶ Series UBPS		
		Order No.	Adapter plate*	D [mm]
35	SVS..CH, SVS..LCH	UBPS3501PS1	PUB35-4	48
35	SVS..RH, SVS..LRH	UBPS3501PS1	PUB35-11	55
35	SVS..R, SVS..LR, SVS..C, SVS..LC	UBPS3501PS1		44
45	SVS..R, SVS..LR, SVS..C, SVS..LC	UBPS4501PS1		52
45	SVS..CH, SVS..LCH	UBPS4501PS1	PUB45-8	60
45	SVS..RH, SVS..LRH	UBPS4501PS1	PUB45-18	70
55	SVS..CH	UBPS5501PS1L	PUBL55-7	70
55	SVS..RH, SVS..LRH	UBPS5501PS1L	PUBL55-17	80
55	SVS..R, SVS..LR, SVS..C, SVS..LC	UBPS5501PS1L		63
65	SVS..R, SVS..LR, SVS..C, SVS..LC	UBPS6501PS1L		75

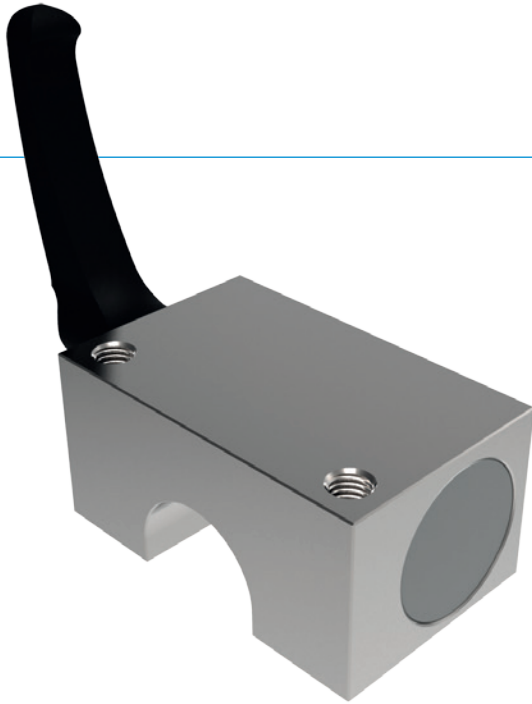


▶ Series UBPS				
Version	Holding force [N]	A [mm]	B1 [mm]	C [mm]
UBPS3501PS1	2500	100	109.0	5.5
UBPS4501PS1	2800	120	109.0	7.0
UBPS5501PS1L	5200	140	197.0	11.0
UBPS6501PS1L	7700	170	197.0	11.0

CLAMPING ELEMENTS

SERIES HKR

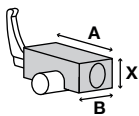
▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Tool-free opening and closing (bi-stable)**
By turning the clamping lever
- ▶ **Maintenance free**
Up to 50,000 static clamping cycles

▶ TECHNICAL DATA

▶ SERIES HKR MANUAL CLAMPING BISTABLE

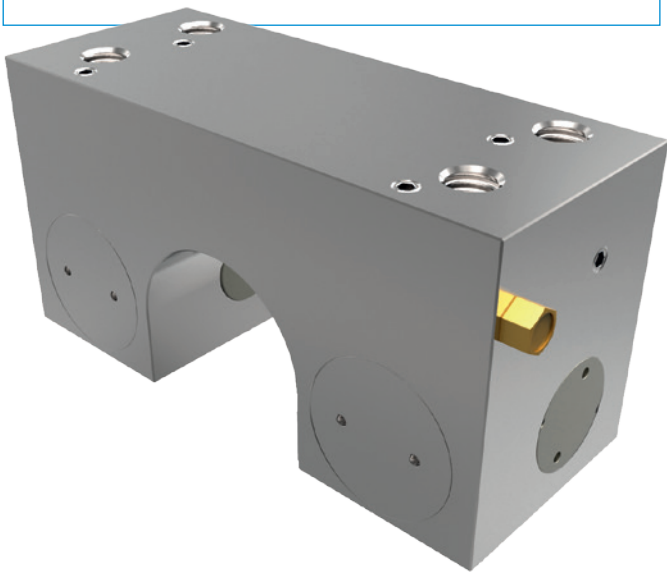


Order no.	Shaft diameter [mm]	Holding force [N]	Max. tightening torque [Nm]	A [mm]	B [mm]	X [mm]
HKR1200A	12	1200	5	43.0	32.0	18.0
HKR1600A	16	1200	5	53.0	38.0	22.0
HKR2000A	20	1200	7	60.0	44.0	25.0
HKR2500A	25	1200	7	78.0	52.0	30.0
HKR3000A	30	2000	12	87.0	58.0	35.0
HKR4000A	40	2000	17	108.0	68.0	45.0
HKR5000A	50	2000	17	132.0	76.0	50.0

CLAMPING ELEMENTS

SERIES MKR

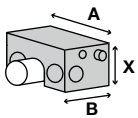
▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to close (NO)**
Closing with pressure
- ▶ **high durability**
Up to 5 million static clamping cycles

▶ TECHNICAL DATA

▶ SERIES MKR PNEUMATIC CLAMPING NO



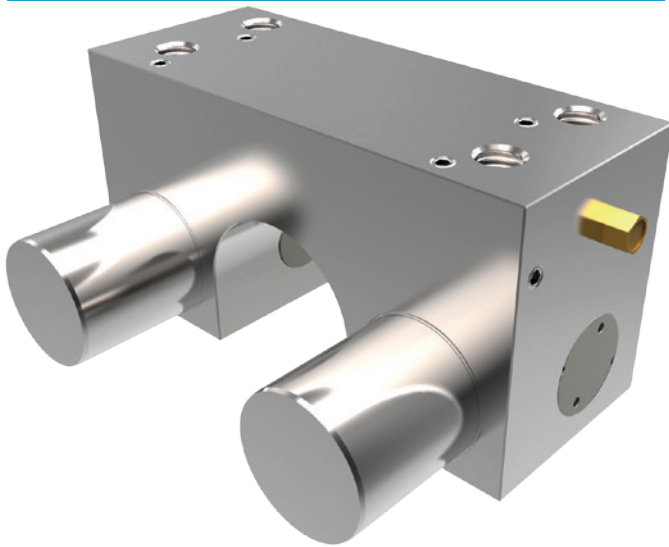
Order no.	Shaft diameter [mm]	Holding force [N]	A [mm]	B1 [mm] [mm]	X [mm]
MKR1200A	12	650	50.0	37.0	18.0
MKR1600A	16	650	55.0	39.0	22.0
MKR2000A	20	1000	66.0	38.0	25.0
MKR2500A	25	1200	77.0	42.0	30.0
MKR3000A	30	1750	92.0	48.5	35.0
MKR4000A	40	1850	120.0	49.0	45.0
MKR5000A	50	1850	132.0	49.0	50.0
MKR6000A	60	1850	142.0	49.0	50.0

CLAMPING ELEMENTS

SERIES MKRS

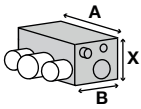
▶ PRODUCT ADVANTAGES

- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe clamping in case of energy failure



▶ TECHNICAL DATA

▶ SERIES MKRS PNEUMATIC CLAMPING NC



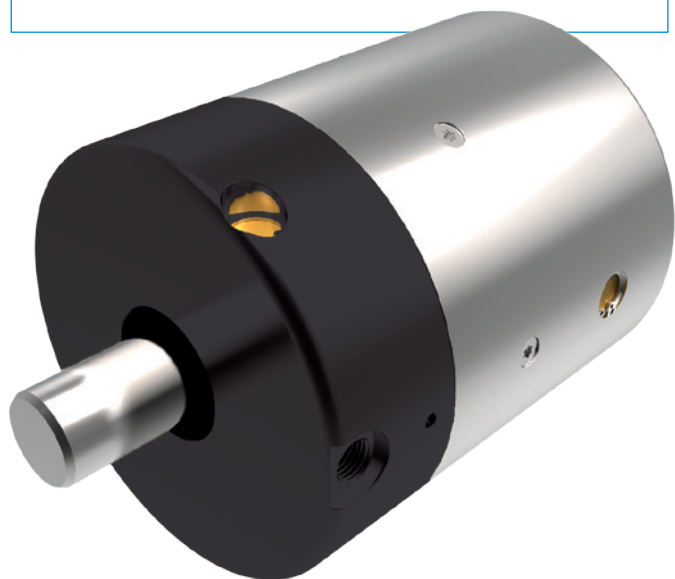
Order no.	Shaft diameter [mm]	Holding force [N]	A [mm]	B [mm]	X [mm]
MKRS1200A	12	350	50.0	56.0	18.0
MKRS1600A	16	400	55.0	58.0	22.0
MKRS2000A	20	600	66.0	60.0	25.0
MKRS2500A	25	750	77.0	63.0	30.0
MKRS3000A	30	1050	92.0	77.5	35.0
MKRS4000A	40	1650	120.0	82.0	45.0
MKRS5000A	50	1650	132.0	82.0	50.0
MKRS6000A	60	1650	142.0	82.0	50.0

CLAMPING AND BRAKING ELEMENTS

SERIES RBPS

▶ PRODUCT ADVANTAGES

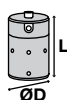
- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe braking in case of energy failure



▶ TECHNICAL DATA

▶ SERIES RBPS PNEUMATIC CLAMPING AND BRAKING NC

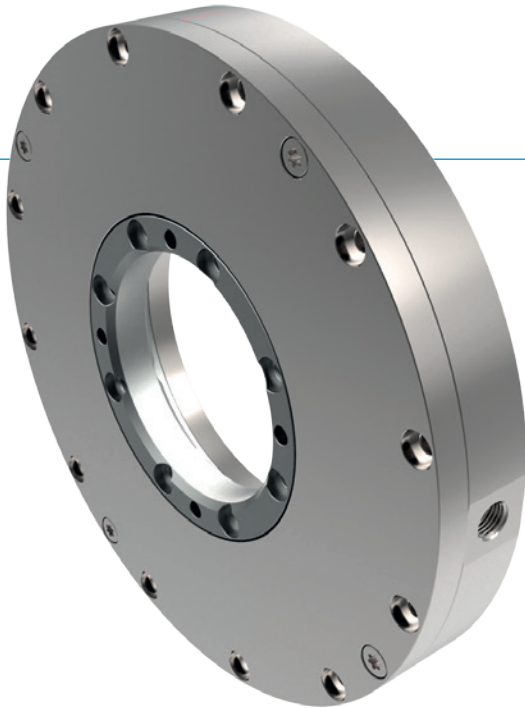
Order no.	Shaft diameter [mm]	Holding force [N]	ØD [mm]	L [mm]
RBPS0500	5	3500	49.0	68.0
RBPS0600	6	3500	49.0	68.0
RBPS0800	8	3500	49.0	68.0
RBPS1000	10	3500	49.0	68.0
RBPS1200	12	10000	99.0	150.0
RBPS1400	14	10000	99.0	150.0
RBPS1500	15	10000	99.0	150.0
RBPS1600	16	10000	99.0	150.0
RBPS1800	18	10000	99.0	150.0
RBPS2000	20	10000	99.0	150.0
RBPS2200	22	18000	135.0	165.0
RBPS2400	24	18000	135.0	165.0
RBPS2500	25	18000	135.0	165.0
RBPS2600	26	18000	135.0	165.0
RBPS2800	28	18000	135.0	165.0
RBPS3000	30	35000	170.0	220.0
RBPS3200	32	35000	170.0	220.0
RBPS3500	35	35000	170.0	220.0
RBPS3600	36	35000	170.0	220.0
RBPS3800	38	35000	170.0	220.0
RBPS4000	40	35000	170.0	220.0
RBPS4200	42	35000	170.0	220.0
RBPS4500	45	35000	170.0	220.0



CLAMPING ELEMENTS

SERIES TPS

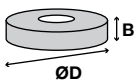
▶ PRODUCT ADVANTAGES



- ▶ **Independent of the manufacturer**
For circular guides and shaft guides
- ▶ **Energize to open (NC)**
through spring-loaded energy storage
- ▶ **high durability**
Up to 5 million static clamping cycles
- ▶ **Safety element**
Safe clamping in case of energy failure

▶ TECHNICAL DATA

▶ SERIES TPS PNEUMATIC CLAMPING NC



Order no.	Shaft diameter [mm]	Holding torque [Nm]	B [mm]	ØD [mm]
TPS050	50	60	25.0	145.0
TPS090	90	130	28.0	185.0
TPS200	200	500	35.0	328.0



THE KNOW- HOW FACTORY

CHECKLIST LINEAR TECHNOLOGY

Customer number	<input type="text"/>	Telephone number	<input type="text"/>
Company	<input type="text"/>	Fax number	<input type="text"/>
Contact Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/>	<input type="text"/>	E-Mail	<input type="text"/>
Sales data		Article	<input type="text"/>
Editor	<input type="text"/>	Target price	<input type="text"/>
Desired delivery date	<input type="text"/>	Other	<input type="text"/>
Quantity	<input type="text"/>	Pot. quantity (p.a.)	<input type="text"/>

Information on the guide system

Rail manufacturer	<input type="text"/>		
Rail type	<input type="text"/>	<input type="checkbox"/> with wiper	<input type="checkbox"/> without wiper
Rail size	<input type="text"/>		
Carriage type	<input type="text"/>		
Flat steel/shaft	<input type="text"/>	mm	Tolerance <input type="text"/> +/- μ m

Information on the clamping element/braking element

Actuation	<input type="checkbox"/> manual	<input type="checkbox"/> pneumatic	<input type="checkbox"/> electric	<input type="checkbox"/> hydraulic
Available energy parameters	<input type="text"/>	<input type="checkbox"/> bar	<input type="checkbox"/> VA	
Status	<input type="checkbox"/> NO (normally open)	<input type="checkbox"/> NC (normally closed)	<input type="checkbox"/> N (bistable)	
Series	<input type="text"/>			

Application

Static/ dynamic	<input type="checkbox"/> clamping	<input type="checkbox"/> braking (emergency stop)			
Required holding force	<input type="text"/>	N			
Speed	<input type="text"/>	m/s			
Minimum number of cycles	<input type="text"/>				
Max. cycle time	opening <input type="text"/>	ms	closing <input type="text"/>	ms	
Installation position	<input type="checkbox"/> horizontal	<input type="checkbox"/> vertical	<input type="checkbox"/> angle <input type="text"/>	°	
Environment	<input type="checkbox"/> chips	<input type="checkbox"/> coolant	<input type="checkbox"/> oil / grease	<input type="checkbox"/> vacuum	<input type="checkbox"/> dust
	<input type="checkbox"/> other <input type="text"/>		<input type="checkbox"/> Temperature (min./ max.) <input type="text"/>		
End seal	<input type="checkbox"/> with end seal	<input type="checkbox"/> without end seal			
Semi-standard	<input type="checkbox"/> stainless steel	<input type="checkbox"/> sensing (initiator)	<input type="checkbox"/> Power connection, top	<input type="checkbox"/> Power connection, front	
	<input type="checkbox"/> other <input type="text"/>				

USAGE NOTE

GENERAL

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The technical data and figures have been compiled with great care and to the best of our knowledge. We cannot guarantee that the information is up to date, correct or complete.

The specifications and information—such as figures, drawings, descriptions, dimensions, weights, materials, technical and other performance data and the described products and services—contained in general product descriptions, ZIMMER GMBH catalogs, brochures and price lists in any form are subject to change and may be modified or updated at any time without prior notification. They are binding only to the extent expressly specified in a contract or order confirmation. Slight deviations from such descriptive product information shall be considered approved and shall not affect fulfillment of agreements insofar as they are reasonable for the customer.

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Zimmer Group has a quality management system certified in accordance with ISO 9001:2008. Zimmer Group has an environmental management system certified in accordance with ISO 14001:2004.

USAGE NOTE

INDIVIDUAL

DECLARATION OF INCORPORATION IN TERMS OF THE EC DIRECTIVE 2006/42/EC ON MACHINERY (ANNEX II 1 B)

We hereby declare that our elements meet the following basic requirements of the Machinery Directive 2006/42/EC as an incomplete machine

No.1.1.2., No.1.1.3., No.1.1.5., No.1.3.2, No. 1.3.4, No. 1.3.7, No.1.5.3, No.1.5.4, No.1.5.8., No.1.6.4, No.1.7.1, No.1.7.3, No.1.7.4.

We also declare that the specific technical documents were produced in accordance with Annex VII Part B of this Directive. We undertake to provide the market supervisory bodies with electronic versions of the incomplete machine's special documents via our documentation department should they have reason to request them.

The incomplete machine may only be commissioned if the machine or system in which the incomplete machine is to be installed has been determined to satisfy the conditions of the Machinery Directive 2006/42/EC and the EC Declaration of Conformity has been produced in accordance with Annex II A.

The contents and data correspond to the status as of printing, Edition 09/2015.

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