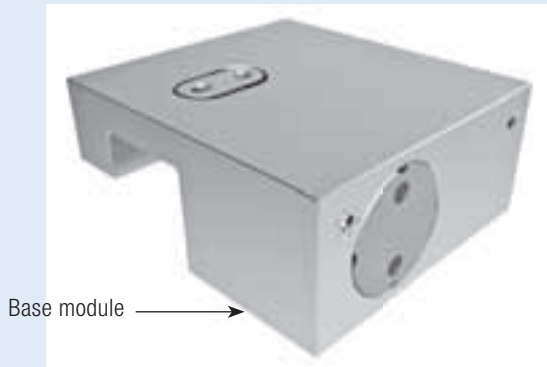


## New product for miniature section rails: Miniature clamping MCP/MCPS.

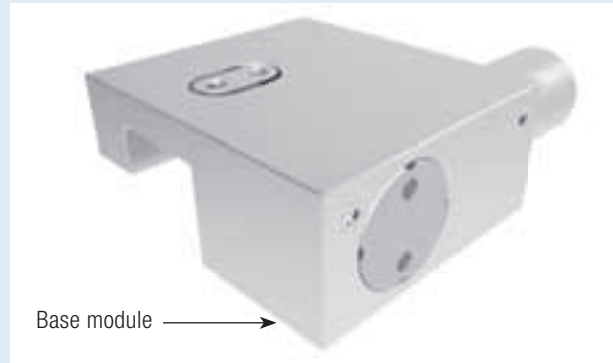
The MCP/MCPS series was developed specially for miniature guide rails and can be used for miniature rail sizes from 5–25. They are asymmetrically arranged with respect to the rail axis, which makes it possible to keep the carriage width on one side.

The wrap-around clamp is floating, consequently there are no transverse forces in adjoining structures. This also enables a friction connection for the contact sections between the element and linear guide.

## MCP Series



## MCPS Series



### Technical data for MCP series:

|                              |                     |
|------------------------------|---------------------|
| Rail size                    | 5–25                |
| Holding forces               | 130 N–550 N         |
| Min. pressure                | 6 bar               |
| Max. pressure                | 8 bar               |
| spring-loaded energy storage | -                   |
| PLUS connection              | -                   |
| Clamping cycles              | 5 mil. (B10d-value) |
| Braking cycles               | unsuitable          |

### Application scenarios for MCP:

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

### Connection options for MCP/MCPS:

The MCP/MCPS series have only one air connection on the side.

### Higher supporting forces with PLUS connection (MCPS):

By using a 5/2 (overflow-free) or 5/3 valve it is possible to support the spring power with pneumatic pressure. By using the PLUS connection, the stated supporting force will be increased.

When the PLUS connection (MCPS only) is being used the air-release filter is replaced by connecting a second pneumatic tube (see drawing).

For further information, please refer to the assembly instructions or visit [www.zimmer-gmbh.com](http://www.zimmer-gmbh.com).

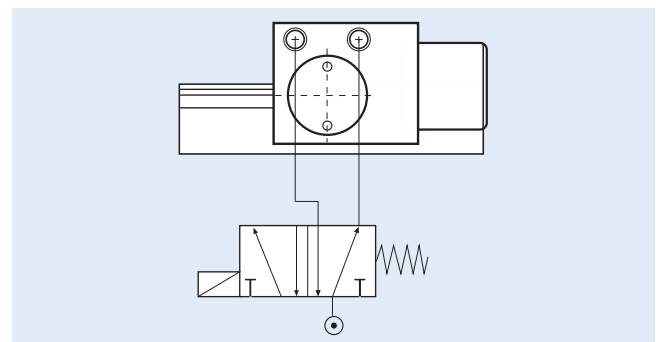
\*Note: With PLUS connection, the B10d value is not achieved.

### Technical data for MCPS series:

|                              |                      |
|------------------------------|----------------------|
| Rail size                    | 5–25                 |
| Holding forces               | 80 N–400 N           |
| Min. pressure                | 5.5 bar              |
| Max. pressure                | 8 bar                |
| Spring-loaded energy storage | ✓                    |
| PLUS-connection              | ✓                    |
| Clamping cycles              | 5 mil. (B10d-value)* |
| Braking cycles               | unsuitable           |

### Application scenarios for MCPS:

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





| Type of rail | Size | Type of carriage                  | Item number     | Adapting plate<br>(for height compensation) | Measure D [mm] <sup>*1</sup> | Measure table<br>(page 66) |
|--------------|------|-----------------------------------|-----------------|---|------------------------------|----------------------------|
| SRS          | 7    | SRS..M                            | Ⓢ               |   | 8                            | Ⓢ                          |
|              | 9    | SRS..M, SRS..N                    | MCP/MCPS 0901 H |   | 10                           | 5                          |
|              | 12   | SRS..M, SRS..N                    | MCP/MCPS 1201 A |   | 13                           | 2                          |
|              | 15   | SRS..M, SRS..N                    | MCP/MCPS 1501 H |   | 16                           | 3                          |
|              | 20   | SRS..M                            | MCP/MCPS 2001 A |   | 20                           | 4                          |
|              | 25   | SRS..M                            | Ⓢ               |   | 25                           | Ⓢ                          |
| RSR          | 7    | RSR..M, RSR..N, RSR..ZM, RSH..M   | Ⓢ               |   | 8                            | Ⓢ                          |
|              | 9    | RSR..KM, RSR..N, RSR..ZM, RSH..KM | MCP/MCPS 0901 A |   | 10                           | 1                          |
|              | 12   | RSR..VM, RSR..N, RSR..ZM, RSH..VM | MCP/MCPS 1201 M |   | 13                           | 2                          |
|              | 15   | RSR..VM, RSR..N, RSR..ZM          | MCP/MCPS 1501 M |   | 16                           | 3                          |
|              | 20   | RSR..VM, RSR..N                   | Ⓢ               |   | 25                           | Ⓢ                          |
|              | EPF  | 7                                 | EPF..M          | Ⓢ   |                              | 8                          |
| 9            |      | EPF..M                            | Ⓢ               |   | 10                           | Ⓢ                          |
| 12           |      | EPF..M                            | Ⓢ               |   | 13                           | Ⓢ                          |
| 15           |      | EPF..M                            | X               |   | 16                           | X                          |



|      |    |                          |                 |  |    |   |
|------|----|--------------------------|-----------------|--|----|---|
| 0445 | 7  | R0442, R0444             | Ⓢ               |  | 8  | Ⓢ |
|      | 9  | R0442..9/M3, R0444..9/M3 | MCP/MCPS 0901 A |  | 10 | 1 |
|      | 12 | R0442, R0444             | MCP/MCPS 1205 A |  | 13 | 2 |
|      | 15 | R0442, R0444             | MCP/MCPS 1505 A |  | 16 | 3 |
|      | 20 | R0442                    | MCP/MCPS 2005 A |  | 25 | 6 |



|    |    |                  |                 |  |    |   |
|----|----|------------------|-----------------|--|----|---|
| MN | 7  | MNN, MNNL, MNNXL | Ⓢ               |  | 8  | Ⓢ |
|    | 9  | MNN, MNNL, MNNXL | MCP/MCPS 0901 A |  | 10 | 1 |
|    | 12 | MNN, MNNL, MNNXL | Ⓢ               |  | 13 | Ⓢ |
|    | 15 | MNN, MNNL, MNNXL | MCP/MCPS 1504 A |  | 16 | 3 |



|     |    |  |                 |  |    |   |
|-----|----|--|-----------------|--|----|---|
| LWL | 5  | LWLC..B, LWLC..N, LWL..B, LWL..N                             | Ⓢ               |  | 6  | Ⓢ |
|     | 7  | LWLC..B, LWLC..N, LWL..B, LWL..N, LWLG..B, LWLG..N           | Ⓢ               |  | 8  | Ⓢ |
|     | 9  | LWLC..B, LWLC..N, LWL..B, LWL..BCS, LWL..N, LWLG..B, LWLG..N | Ⓢ               |  | 10 | Ⓢ |
|     | 12 | LWLC..B, LWL..B, LWL..BCS, LWLG..B, LWL..CS                  | MCP/MCPS 1201 A |  | 13 | 2 |
|     | 15 | LWLC..B, LWL..B, LWL..BCS, LWLG..B, LWL..CS                  | MCP/MCPS 1504 A |  | 16 | 3 |
|     | 20 | LWLC..B, LWL..B, LWL..BCS, LWLG..B                           | MCP/MCPS 2001 A |  | 20 | 4 |
|     | 25 | LWLC..B, LWL..B, LWLG..B                                     | Ⓢ               |  | 25 | Ⓢ |
| ML  | 5  | MLC, ML  | Ⓢ               |  | 6  | Ⓢ |
|     | 7  | MLC, ML, MLG   | Ⓢ               |  | 8  | Ⓢ |
|     | 9  | MLC, ML, MLG   | Ⓢ               |  | 10 | Ⓢ |
|     | 12 | MLC, ML, MLG   | Ⓢ               |  | 13 | Ⓢ |
|     | 15 | MLC, ML, MLG   | MCP/MCPS 1504 A |  | 16 | 3 |
|     | 20 | MLC, ML, MLG   | Ⓢ               |  | 20 | Ⓢ |
|     | 25 | MLC, ML, MLG   | Ⓢ               |  | 25 | Ⓢ |



|                        |    |                          |                 |  |    |   |
|------------------------|----|--------------------------|-----------------|--|----|---|
| TKDM<br>(KJEM)         | 5  | KWEM, KWEM..-C           | Ⓢ               |  | 6  | Ⓢ |
|                        | 7  | KWEM, KWEM..-L, KWEM..-C | Ⓢ               |  | 8  | Ⓢ |
|                        | 9  | KWEM, KWEM..-L, KWEM..-C | Ⓢ               |  | 10 | Ⓢ |
|                        | 12 | KWEM, KWEM..-L, KWEM..-C | MCP/MCPS 1201 A |  | 13 | 2 |
|                        | 15 | KWEM, KWEM..-L, KWEM..-C | MCP/MCPS 1504 A |  | 16 | 3 |
| TKMD..-C<br>(KJME..-C) | 12 | KWME..-C                 | MCP/MCPS 1201 A |  | 13 | 2 |
|                        | 15 | KWME..-C                 | MCP/MCPS 1504 A |  | 16 | 3 |

X: not feasible  
\*1 Supplements the measure table and datasheet

See page 10 for part number explanation

| Type of rail | Size | Item number    | (for height compensation) | Measure D [mm] <sup>*1</sup> | (page 66) |
|--------------|------|----------------|---------------------------|------------------------------|-----------|
| MGN          | 7    | MGN..C, MGN..H | Ⓢ                         | 8                            | Ⓢ         |
|              | 9    | MGN..C, MGN..H | Ⓢ                         | 10                           | Ⓢ         |
|              | 12   | MGN..C, MGN..H | MCP/MCPS 1201 A           | 13                           | 2         |
|              | 15   | MGN..C, MGN..H | MCP/MCPS 1504 A           | 16                           | 3         |

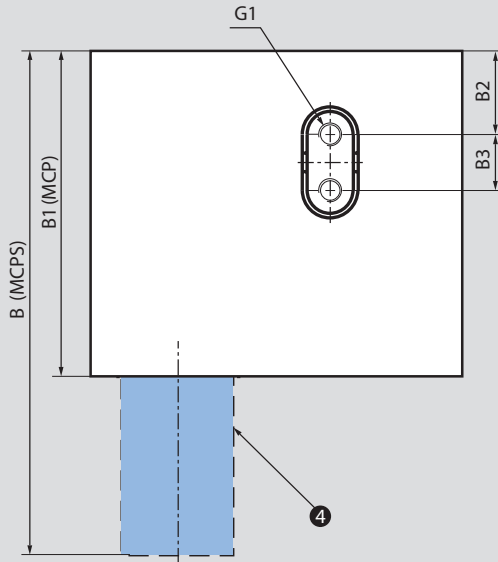
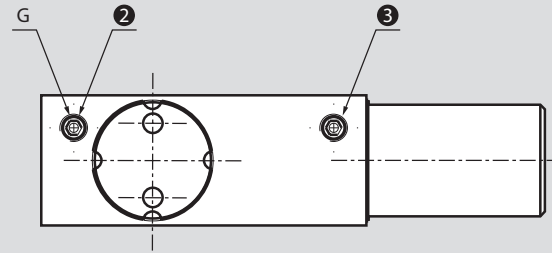
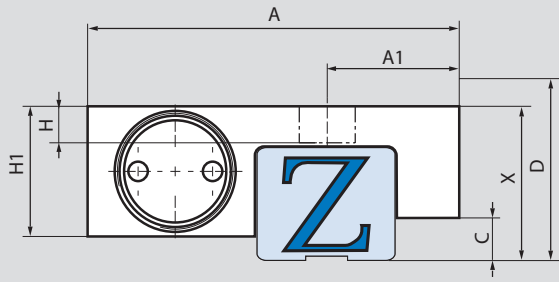
Rail manufacturer  
**HIWIN**<sup>®</sup>  
 Lineartechnologie

|    |    |         |                 |    |   |
|----|----|---------|-----------------|----|---|
| PU | 5  | PAU..TR | Ⓢ               | 6  | Ⓢ |
|    | 7  | PAU..AR | Ⓢ               | 8  | Ⓢ |
|    | 9  | PAU..TR | MCP/MCPS 0901 A | 10 | 1 |
|    | 12 | PAU..TR | MCP/MCPS 1201 A | 13 | 2 |
|    | 15 | PAU..AL | MCP/MCPS 1504 A | 16 | 3 |
| LU | 15 | LAU..AL | MCP/MCPS 1504 A | 16 | 3 |

Rail manufacturer  
**NSK**

\*1 Supplements the measure table and datasheet

See page 10 for part number explanation



**Note: Consider measurement C/Interfering contour!**

G: air connection

- ❶ MCP Series: Air filter  
MCPS: M3 port (air connection)
- ❷ MCP Series: M3 port (air connection)  
MCPS: Air filter / Plus connection M3.
- ❸ The attachment spring unit on the MCPS is not applicable on the MCP.

| Measure table | Holding power [N] MCP | Holding power [N] MCPS | A [mm] | A1 [mm] | B [mm] | B1 [mm] | B2 [mm] | B3 [mm] | C [mm] | X [mm] | G  | G1   | H [mm] | H1 [mm] |
|---------------|-----------------------|------------------------|--------|---------|--------|---------|---------|---------|--------|--------|----|------|--------|---------|
| 1             | 130                   | 80                     | 32,5   | 9,7     | 52,5   | 34      | 8,25    | 5,5     | 1,45   | 10     | M3 | M2,5 | 3,3    | 15      |
| 2             | 280                   | 250                    | 37,5   | 13,2    | 52,5   | 34      | 8,25    | 5,5     | 2,95   | 13     | M3 | M2,5 | 3,5    | 16      |
| 3             | 320                   | 280                    | 41,5   | 15,7    | 52,5   | 34      | 8       | 6       | 3,95   | 16     | M3 | M2,5 | 3,8    | 16      |
| 4             | 550                   | 400                    | 48,7   | 19,7    | 60     | 41      | 10,5    | 8       | 2,45   | 20     | M3 | M4   | 6,2    | 23      |
| 5             | 130                   | 80                     | 32,5   | 9,7     | 52,5   | 34      | 8,25    | 5,5     | 2,15   | 10     | M3 | M2,5 | 3,3    | 15      |
| 6             | 550                   | 400                    | 48,7   | 19,7    | 60     | 41      | 10,5    | 8       | 7,45   | 25     | M3 | M4   | 6,2    | 23      |