

## Double acting

The versatile high quality ISO compact cylinder range, P1P cylinders are up to 50% shorter than ISO1552 cylinders for the same stroke. Suitable for a wide range of applications.

- Bore 20 - 100 mm
- ISO 21287 conformity
- Corrosion resistant design and low weight construction
- Magnetic piston as standard
- Elastic cushioning
- Flexible direct mounting
- ISO 15552 mountings and global sensor range common with P1D



## Double acting - Female threaded piston rod

### Ø20mm - (M5)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS020DS7G0005 |
| 10        | P1PS020DS7G0010 |
| 15        | P1PS020DS7G0015 |
| 20        | P1PS020DS7G0020 |
| 25        | P1PS020DS7G0025 |
| 30        | P1PS020DS7G0030 |
| 40        | P1PS020DS7G0040 |
| 50        | P1PS020DS7G0050 |
| 60        | P1PS020DS7G0060 |

### Ø25mm - (M5)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS025DS7G0005 |
| 10        | P1PS025DS7G0010 |
| 15        | P1PS025DS7G0015 |
| 20        | P1PS025DS7G0020 |
| 25        | P1PS025DS7G0025 |
| 30        | P1PS025DS7G0030 |
| 40        | P1PS025DS7G0040 |
| 50        | P1PS025DS7G0050 |
| 60        | P1PS025DS7G0060 |

### Ø32mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS032DS7G0005 |
| 10        | P1PS032DS7G0010 |
| 15        | P1PS032DS7G0015 |
| 20        | P1PS032DS7G0020 |
| 25        | P1PS032DS7G0025 |
| 30        | P1PS032DS7G0030 |
| 40        | P1PS032DS7G0040 |
| 50        | P1PS032DS7G0050 |
| 60        | P1PS032DS7G0060 |
| 80        | P1PS032DS7G0080 |

### Ø40mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS040DS7G0005 |
| 10        | P1PS040DS7G0010 |
| 15        | P1PS040DS7G0015 |
| 20        | P1PS040DS7G0020 |
| 25        | P1PS040DS7G0025 |
| 30        | P1PS040DS7G0030 |
| 40        | P1PS040DS7G0040 |
| 50        | P1PS040DS7G0050 |
| 60        | P1PS040DS7G0060 |
| 80        | P1PS040DS7G0080 |

### Ø50mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS050DS7G0005 |
| 10        | P1PS050DS7G0010 |
| 15        | P1PS050DS7G0015 |
| 20        | P1PS050DS7G0020 |
| 25        | P1PS050DS7G0025 |
| 30        | P1PS050DS7G0030 |
| 40        | P1PS050DS7G0040 |
| 50        | P1PS050DS7G0050 |
| 60        | P1PS050DS7G0060 |
| 80        | P1PS050DS7G0080 |

### Ø63mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS063DS7G0005 |
| 10        | P1PS063DS7G0010 |
| 15        | P1PS063DS7G0015 |
| 20        | P1PS063DS7G0020 |
| 25        | P1PS063DS7G0025 |
| 30        | P1PS063DS7G0030 |
| 40        | P1PS063DS7G0040 |
| 50        | P1PS063DS7G0050 |
| 60        | P1PS063DS7G0060 |
| 80        | P1PS063DS7G0080 |

### Ø80mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PS080DS7G0005 |
| 10        | P1PS080DS7G0010 |
| 15        | P1PS080DS7G0015 |
| 20        | P1PS080DS7G0020 |
| 25        | P1PS080DS7G0025 |
| 30        | P1PS080DS7G0030 |
| 40        | P1PS080DS7G0040 |
| 50        | P1PS080DS7G0050 |
| 60        | P1PS080DS7G0060 |
| 80        | P1PS080DS7G0080 |
| 100       | P1PS080DS7G0100 |

### Ø100mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 10        | P1PS100DS7G0010 |
| 15        | P1PS100DS7G0015 |
| 20        | P1PS100DS7G0020 |
| 25        | P1PS100DS7G0025 |
| 30        | P1PS100DS7G0030 |
| 40        | P1PS100DS7G0040 |
| 50        | P1PS100DS7G0050 |
| 60        | P1PS100DS7G0060 |
| 80        | P1PS100DS7G0080 |
| 100       | P1PS100DS7G0100 |

### Sensors



For sensors see page 25.

## Compact ISO Cylinders - P1P Series

### Double acting - Guided

This cylinder version feature twin guide rods connected to the piston rod by a large flange plate. These cylinders are ideal for clamping an moving applications where turning of the piston rod must be avoided.



### Double acting - Guided

#### Ø20mm - (M5)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG020DS7G0005 |
| 10        | P1PG020DS7G0010 |
| 15        | P1PG020DS7G0015 |
| 20        | P1PG020DS7G0020 |
| 25        | P1PG020DS7G0025 |
| 30        | P1PG020DS7G0030 |
| 40        | P1PG020DS7G0040 |
| 50        | P1PG020DS7G0050 |
| 60        | P1PG020DS7G0060 |

#### Ø25mm - (M5)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG025DS7G0005 |
| 10        | P1PG025DS7G0010 |
| 15        | P1PG025DS7G0015 |
| 20        | P1PG025DS7G0020 |
| 25        | P1PG025DS7G0025 |
| 30        | P1PG025DS7G0030 |
| 40        | P1PG025DS7G0040 |
| 50        | P1PG025DS7G0050 |
| 60        | P1PG025DS7G0060 |

#### Ø32mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG032DS7G0005 |
| 10        | P1PG032DS7G0010 |
| 15        | P1PG032DS7G0015 |
| 20        | P1PG032DS7G0020 |
| 25        | P1PG032DS7G0025 |
| 30        | P1PG032DS7G0030 |
| 40        | P1PG032DS7G0040 |
| 50        | P1PG032DS7G0050 |
| 60        | P1PG032DS7G0060 |
| 80        | P1PG032DS7G0080 |

#### Ø40mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG040DS7G0005 |
| 10        | P1PG040DS7G0010 |
| 15        | P1PG040DS7G0015 |
| 20        | P1PG040DS7G0020 |
| 25        | P1PG040DS7G0025 |
| 30        | P1PG040DS7G0030 |
| 40        | P1PG040DS7G0040 |
| 50        | P1PG040DS7G0050 |
| 60        | P1PG040DS7G0060 |
| 80        | P1PG040DS7G0080 |

#### Ø50mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG050DS7G0005 |
| 10        | P1PG050DS7G0010 |
| 15        | P1PG050DS7G0015 |
| 20        | P1PG050DS7G0020 |
| 25        | P1PG050DS7G0025 |
| 30        | P1PG050DS7G0030 |
| 40        | P1PG050DS7G0040 |
| 50        | P1PG050DS7G0050 |
| 60        | P1PG050DS7G0060 |
| 80        | P1PG050DS7G0080 |

#### Ø63mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG063DS7G0005 |
| 10        | P1PG063DS7G0010 |
| 15        | P1PG063DS7G0015 |
| 20        | P1PG063DS7G0020 |
| 25        | P1PG063DS7G0025 |
| 30        | P1PG063DS7G0030 |
| 40        | P1PG063DS7G0040 |
| 50        | P1PG063DS7G0050 |
| 60        | P1PG063DS7G0060 |
| 80        | P1PG063DS7G0080 |

#### Ø80mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 5         | P1PG080DS7G0005 |
| 10        | P1PG080DS7G0010 |
| 15        | P1PG080DS7G0015 |
| 20        | P1PG080DS7G0020 |
| 25        | P1PG080DS7G0025 |
| 30        | P1PG080DS7G0030 |
| 40        | P1PG080DS7G0040 |
| 50        | P1PG080DS7G0050 |
| 60        | P1PG080DS7G0060 |
| 80        | P1PG080DS7G0080 |
| 100       | P1PG080DS7G0100 |

#### Ø100mm - (G1/8)

| Stroke mm | Order code      |
|-----------|-----------------|
| 10        | P1PG100DS7G0010 |
| 15        | P1PG100DS7G0015 |
| 20        | P1PG100DS7G0020 |
| 25        | P1PG100DS7G0025 |
| 30        | P1PG100DS7G0030 |
| 40        | P1PG100DS7G0040 |
| 50        | P1PG100DS7G0050 |
| 60        | P1PG100DS7G0060 |
| 80        | P1PG100DS7G0080 |
| 100       | P1PG100DS7G0100 |

#### Sensors



For sensors see page 25.

## Compact ISO Cylinders - P1P Series

Flange MF1 / MF2 <sup>1</sup>Foot brackets MS1 <sup>2</sup>Pivot bracket with rigid bearing AB7 <sup>3</sup>Clevis bracket MP2 <sup>4</sup>Clevis bracket MP4 <sup>5</sup>

|       |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|
| Ø 20  | P1P-4HMB | P1P-4HMF |          |          | P1P-4HME |
| Ø 25  | P1P-4JMB | P1P-4JMF |          |          | P1P-4JME |
| Ø 32  | P1C-4KMB | P1C-4KMF | P1C-4KMD | P1C-4KMT | P1C-4KME |
| Ø 40  | P1C-4LMB | P1C-4LMF | P1C-4LMD | P1C-4LMT | P1C-4LME |
| Ø 50  | P1C-4MMB | P1C-4MMF | P1C-4MMD | P1C-4MMT | P1C-4MME |
| Ø 63  | P1C-4NMB | P1C-4NMF | P1C-4NMD | P1C-4NMT | P1C-4NME |
| Ø 80  | P1C-4PMB | P1C-4PMF | P1C-4PMD | P1C-4PMT | P1C-4PME |
| Ø 100 | P1C-4QMB | P1C-4QMF | P1C-4QMD | P1C-4QMT | P1C-4QME |

Clevis bracket AB6 <sup>6</sup>Pivot bracket with swivel bearing CS7 <sup>7</sup>Swivel eye bracket MP6 <sup>8</sup>

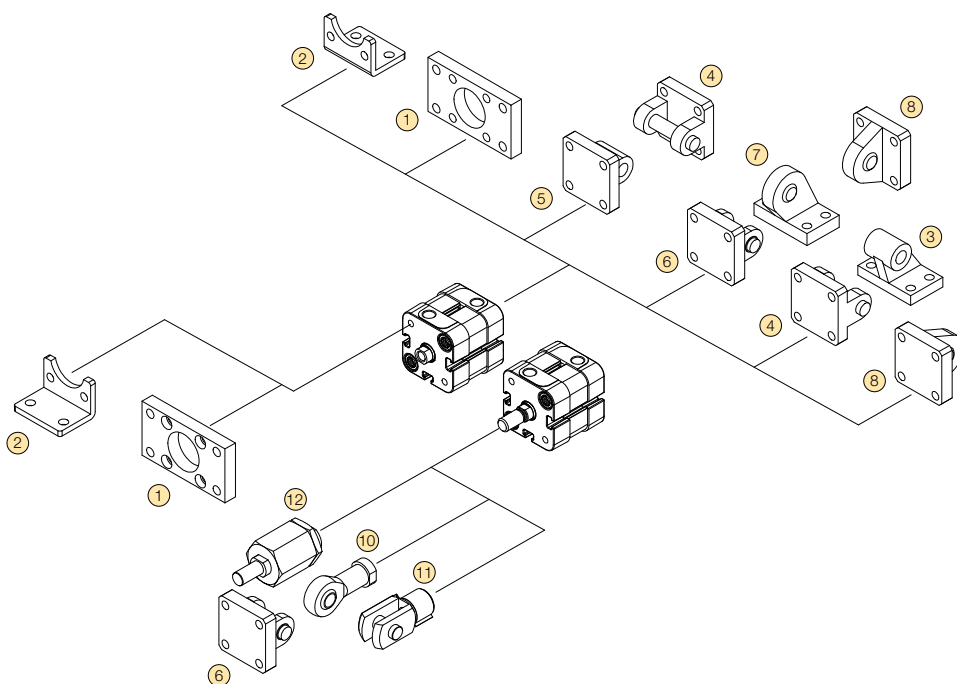
3 and 4 positions flange JP1

Swivel rod eye AP6 <sup>10</sup>

|       |           |          |           |          |          |
|-------|-----------|----------|-----------|----------|----------|
| Ø 20  |           |          |           |          | P1A-4HRS |
| Ø 25  |           |          |           |          | P1A-4HRS |
| Ø 32  | P1C-4KMCA | P1C-4KMA | P1C-4KMSA | P1E-6KB0 | P1C-4KRS |
| Ø 40  | P1C-4LMCA | P1C-4LMA | P1C-4LMSA | P1E-6LB0 | P1C-4KRS |
| Ø 50  | P1C-4MMCA | P1C-4MMA | P1C-4MMSA | P1E-6MB0 | P1C-4LRS |
| Ø 63  | P1C-4NMCA | P1C-4NMA | P1C-4NMSA | P1E-6NB0 | P1C-4LRS |
| Ø 80  | P1C-4PMCA | P1C-4PMA | P1C-4PMSA | P1E-6PB0 | P1C-4MRS |
| Ø 100 | P1C-4QMCA | P1C-4QMA | P1C-4QMSA | P1E-6QB0 | P1C-4MRS |

Clevis <sup>11</sup>  
AP2Flexo coupling <sup>12</sup>  
PM5Nut MR9  
(Pack of 10 off)

|       |          |          |           |
|-------|----------|----------|-----------|
| Ø 20  | P1A-4HRC | P1C-4HRF | P14-4HRPZ |
| Ø 25  | P1A-4HRC | P1C-4HRF | P14-4HRPZ |
| Ø 32  | P1C-4KRC | P1C-4KRF | P14-4KRPZ |
| Ø 40  | P1C-4KRC | P1C-4KRF | P14-4KRPZ |
| Ø 50  | P1C-4LRC | P1C-4LRF | P14-4LRPZ |
| Ø 63  | P1C-4LRC | P1C-4LRF | P14-4LRPZ |
| Ø 80  | P1C-4MRC | P1C-4MRF | P14-4MRPZ |
| Ø 100 | P1C-4MRC | P1C-4MRF | P14-4MRPZ |



# Compact ISO Cylinders - P1P Series

## Cylinder mountings

### Flange MF1/MF2



Intended for fixed mounting of cylinder. Flange can be fitted to front- or rear end-plates of cylinder.

#### Materials

Flange: Surface-treated steel

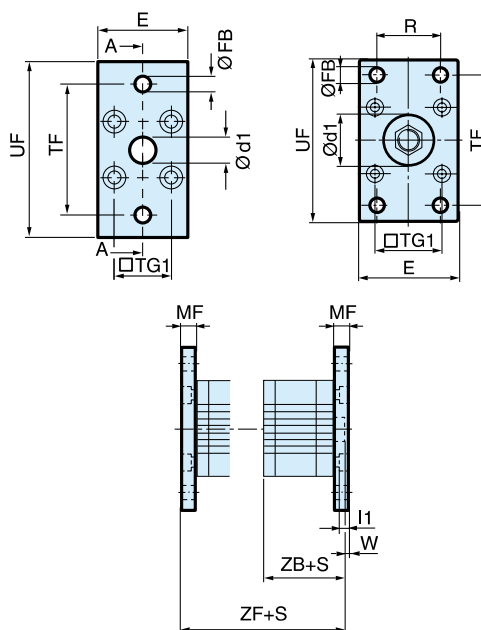
Mounting screws according to DIN 6912: Zinc-plated steel 8.8

Supplied complete with mounting screws for attachment to cylinder.

| Cyl. bore<br>mm | d1<br>mm | FB<br>mm | TG1<br>mm | E<br>mm | R<br>mm | MF<br>mm | TF<br>mm | UF<br>mm | I1<br>mm | W<br>mm | ZF*<br>mm | ZB*<br>mm |
|-----------------|----------|----------|-----------|---------|---------|----------|----------|----------|----------|---------|-----------|-----------|
| H11             | H13      |          |           |         | JS14    | JS14     | JS14     |          | -0,5     |         |           |           |
| 20              | 12,0     | 6,6      | 22,0      | 36      | -       | 10,0     | 55,0     | 70       | 5,4      | 4,0     | 53,0      | 43,0      |
| 25              | 12,0     | 6,6      | 26,0      | 40      | -       | 10,0     | 60,0     | 76       | 5,4      | 4,0     | 55,0      | 45,0      |
| 32              | 30,0     | 7,0      | 32,5      | 45      | 32      | 10,0     | 64,0     | 80       | 5,0      | 3,0     | 61,0      | 41,0      |
| 40              | 35,0     | 9,0      | 38,0      | 52      | 36      | 10,0     | 72,0     | 90       | 5,0      | 3,0     | 52,0      | 52,0      |
| 50              | 40,0     | 9,0      | 46,5      | 65      | 45      | 12,0     | 90,0     | 110      | 6,5      | 4,0     | 65,0      | 53,0      |
| 63              | 45,0     | 9,0      | 56,5      | 75      | 50      | 12,0     | 100,0    | 120      | 6,5      | 4,0     | 69,0      | 57,0      |
| 80              | 45,0     | 12,0     | 72,0      | 95      | 63      | 16,0     | 126,0    | 150      | 8,0      | 6,0     | 80,0      | 64,0      |
| 100             | 55,0     | 14,0     | 89,0      | 115     | 75      | 16,0     | 150,0    | 170      | 8,0      | 6,0     | 93,0      | 77,0      |

S = Stroke length

| Cyl. bore<br>Ø mm | Weight<br>kg | Order code      |
|-------------------|--------------|-----------------|
| 20                | 0,17         | <b>P1P-4HMB</b> |
| 25                | 0,20         | <b>P1P-4JMB</b> |
| 32                | 0,23         | <b>P1C-4KMB</b> |
| 40                | 0,28         | <b>P1C-4LMB</b> |
| 50                | 0,53         | <b>P1C-4MMB</b> |
| 63                | 0,71         | <b>P1C-4NMB</b> |
| 80                | 1,59         | <b>P1C-4PMB</b> |
| 100               | 2,19         | <b>P1C-4QMB</b> |



### Foot brackets MS1



Intended for fixed mounting of cylinder. Angle bracket can be fitted to front- and rear end-plates of cylinder.

#### Materials

Foot bracket: Surface-treated steel

Mounting screws according to DIN 912:  
Zinc-plated steel 8.8

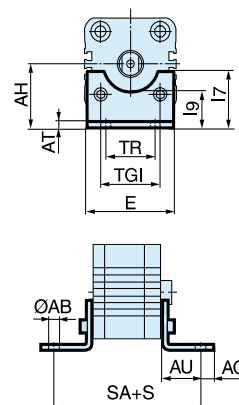
Supplied in pairs with mounting screws for attachment to cylinder.

| Cyl. bore<br>mm | AB<br>mm | TG1<br>mm | E<br>mm | TR<br>mm | AO<br>mm | AU<br>mm | AH<br>mm | I7<br>mm | AT<br>mm | I9<br>mm | SA**<br>mm |
|-----------------|----------|-----------|---------|----------|----------|----------|----------|----------|----------|----------|------------|
| H14             |          |           |         | JS14     |          |          | JS15     |          |          | JS14     |            |
| 20              | 6,6      | 22,0      | 36      | 26       | 6,0      | 16,0     | 27       | 22,0     | 4,0      | 17,0     | 69,0       |
| 25              | 6,6      | 26,0      | 40      | 26       | 6,0      | 16,0     | 30       | 23,0     | 4,0      | 19,0     | 71,0       |
| 32              | 7,0      | 32,5      | 45      | 32       | 10,0     | 24,0     | 32       | 30,0     | 4,5      | 17,5     | 92,0       |
| 40              | 9,0      | 38,0      | 52      | 36       | 8,0      | 28,0     | 36       | 30,0     | 4,5      | 18,5     | 101,0      |
| 50              | 9,0      | 46,5      | 65      | 45       | 13,0     | 32,0     | 45       | 36,0     | 5,5      | 25,0     | 109,0      |
| 63              | 9,0      | 56,5      | 75      | 50       | 13,0     | 32,0     | 50       | 35,0     | 5,5      | 27,5     | 113,0      |
| 80              | 12,0     | 72,0      | 95      | 63       | 14,0     | 41,0     | 63       | 49,0     | 6,5      | 40,5     | 136,0      |
| 100             | 14,0     | 89,0      | 115     | 75       | 15,0     | 41,0     | 71       | 54,0     | 6,5      | 43,5     | 149,0      |

S = Stroke length

| Cyl. bore<br>Ø mm | Weight<br>kg | Order code       |
|-------------------|--------------|------------------|
| 20                | 0,04**       | <b>P1P-4HMF</b>  |
| 25                | 0,05**       | <b>P1P-4JMF</b>  |
| 32                | 0,06**       | <b>P1C-4KMF</b>  |
| 40                | 0,08**       | <b>P1C-4LMF</b>  |
| 50                | 0,16**       | <b>P1C-4MMF</b>  |
| 63                | 0,25**       | <b>P1C-4NMF*</b> |
| 80                | 0,50**       | <b>P1C-4PMF*</b> |
| 100               | 0,85**       | <b>P1C-4QMF*</b> |

\*\* Weight per item



## Cylinder mountings

## Clevis bracket MP4



Intended for flexible mounting of cylinder. Clevis bracket MP4 can be combined with clevis bracket MP2.

## Materials

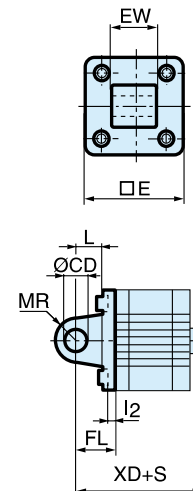
Clevis bracket: Surface-treated aluminium, black  
Mounting screws according to DIN 912: Zinc-plated steel 8.8

Supplied complete with mounting screws for attachment to cylinder.

| Cyl. bore<br>mm | E<br>mm | EW<br>mm | FL<br>±0,2<br>mm | L<br>mm | I2<br>mm | CD<br>H9<br>mm | MR<br>mm | XD*   |
|-----------------|---------|----------|------------------|---------|----------|----------------|----------|-------|
| 20              | 34,0    | 16,0     | 20               | 14      | 2,6      | 8              | 8        | 63,0  |
| 25              | 38,0    | 16,0     | 20               | 14      | 2,6      | 8              | 8        | 65,0  |
| 32              | 45,0    | 26,0     | 22               | 13      | 5,5      | 10             | 10       | 73,0  |
| 40              | 52,0    | 28,0     | 25               | 16      | 5,5      | 12             | 12       | 77,0  |
| 50              | 65,0    | 32,0     | 27               | 16      | 6,5      | 12             | 12       | 80,0  |
| 63              | 75,0    | 40,0     | 32               | 21      | 6,5      | 16             | 16       | 89,0  |
| 80              | 95,0    | 50,0     | 36               | 22      | 10,0     | 16             | 16       | 100,0 |
| 100             | 115,0   | 60,0     | 41               | 27      | 10,0     | 20             | 20       | 118,0 |

S = Stroke length

| Cyl. bore<br>Ø mm | Weight<br>kg | Order code      |
|-------------------|--------------|-----------------|
| 20                | 0,04         | <b>P1P-4HME</b> |
| 25                | 0,05         | <b>P1P-4JME</b> |
| 32                | 0,09         | <b>P1C-4KME</b> |
| 40                | 0,13         | <b>P1C-4LME</b> |
| 50                | 0,17         | <b>P1C-4MME</b> |
| 63                | 0,36         | <b>P1C-4NME</b> |
| 80                | 0,46         | <b>P1C-4PME</b> |
| 100               | 0,83         | <b>P1C-4QME</b> |



## Clevis bracket AB6



Intended for flexible mounting of cylinder. Clevis bracket GA can be combined with pivot bracket with swivel bearing, swivel eye bracket and swivel rod eye.

## Materials

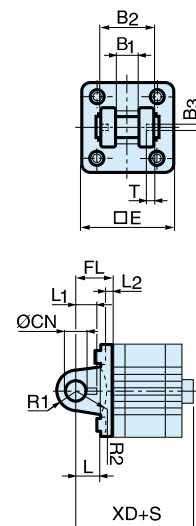
Clevis bracket: Surface-treated aluminium, black  
Pin: Surface hardened steel  
Locking pin: Spring steel  
Circlips according to DIN 471: Spring steel  
Mounting screws acc. to DIN 912: Zinc-plated steel 8.8

Supplied complete with mounting screws for attachment to cylinder.

| Cyl. bore<br>mm | E<br>mm | B2<br>d12<br>mm | B1<br>H14<br>mm | T<br>mm | B3<br>mm | R2<br>mm | L1<br>mm | FL<br>±0,2<br>mm | I2<br>mm | L<br>mm | CN<br>F7<br>mm | R1<br>mm | XD*   |
|-----------------|---------|-----------------|-----------------|---------|----------|----------|----------|------------------|----------|---------|----------------|----------|-------|
| 32              | 45      | 34              | 14              | 3       | 3,3      | 17       | 11,5     | 22               | 5,5      | 12      | 10             | 11       | 73,0  |
| 40              | 52      | 40              | 16              | 4       | 4,3      | 20       | 12,0     | 25               | 5,5      | 15      | 12             | 13       | 77,0  |
| 50              | 65      | 45              | 21              | 4       | 4,3      | 22       | 14,0     | 27               | 6,5      | 17      | 16             | 18       | 80,0  |
| 63              | 75      | 51              | 21              | 4       | 4,3      | 25       | 14,0     | 32               | 6,5      | 20      | 16             | 18       | 89,0  |
| 80              | 95      | 65              | 25              | 4       | 4,3      | 30       | 16,0     | 36               | 10,0     | 20      | 20             | 22       | 100,0 |
| 100             | 115     | 75              | 25              | 4       | 4,3      | 32       | 16,0     | 41               | 10,0     | 25      | 20             | 22       | 118,0 |

S = Stroke length

| Cyl. bore<br>Ø mm | Weight<br>kg | Order code       |
|-------------------|--------------|------------------|
| 32                | 0,09         | <b>P1C-4KMCA</b> |
| 40                | 0,13         | <b>P1C-4LMCA</b> |
| 50                | 0,17         | <b>P1C-4MMCA</b> |
| 63                | 0,36         | <b>P1C-4NMCA</b> |
| 80                | 0,58         | <b>P1C-4PMCA</b> |
| 100               | 0,89         | <b>P1C-4QMCA</b> |



## Stainless steel Pin Set AB6

## Materials

Pin: Stainless steel  
Locking pin: Stainless steel  
Circlips according to DIN 471: Stainless steel

| Cyl. bore<br>Ø mm | Weight<br>kg | Order code        |
|-------------------|--------------|-------------------|
| 32                | 0,05         | <b>9301054311</b> |
| 40                | 0,06         | <b>9301054312</b> |
| 50                | 0,07         | <b>9301054313</b> |
| 63                | 0,07         | <b>9301054314</b> |
| 80                | 0,17         | <b>9301054315</b> |
| 100               | 0,31         | <b>9301054316</b> |