



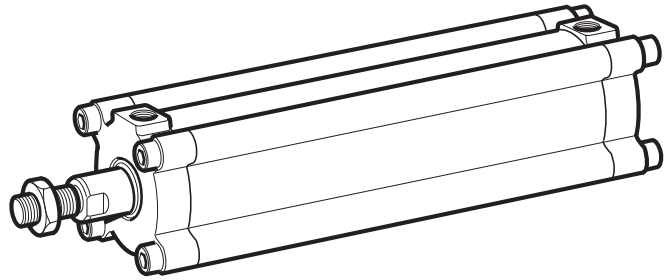
P1K Profile Cylinders

32mm to 125mm bore

Catalogue no: 9127 0021-92 GB-ulr



- Cylinders for light-duty operation
- Compact and clean design for washdown applications
- Designed for operation with dry piston rod
- Profile cylinders available in 32 to 125 mm bores
- End stroke buffers for long service life



For detailed information see technical leaflet 9127002192
Spare parts list 0023-38

Operating and additional information

Working pressure Max 10 bar
Working temperature -20 °C to +70 °C

Prelubricated, further lubrication is not normally necessary.
If additional lubrication is introduced it must be continued.

On request:




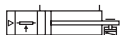
Cylinders with stainless steel piston rod
Cylinders with through piston rod
Cylinders for high ambient temperatures
Cylinders for low pressure hydraulics
Cylinders for low ambient temperatures

Cylinders with rod lock device, see page 1-39
Cylinders with position sensor, see page 1-38
Cylinders with mounted valve, see page 1-38

Order key

| P1K - S | | 032 | D | T | - | 0100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------|------------------------|---------------|-------------|-------------------------|----------|---|----------|-----------------------------|----------|--|----------|--------------------------------------|----------|-------------------------------|--|--------------------|--|------------------|----------|-------------------------|----------|---|----------|---|----------|---|--|--|--|---|-------------|--|--------------------------|--|--|--|
| <table border="1"> <thead> <tr> <th colspan="2">Cylinder type</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Double acting</td> </tr> <tr> <td>L</td> <td>Piston rod lock device.</td> </tr> <tr> <td>W</td> <td>Position sensor. Not for single acting cyl.</td> </tr> <tr> <td>V</td> <td>Combination of L+W</td> </tr> <tr> <td>C</td> <td>Cylinder with factory fitted centre trunnion and connection ports located 90° from pivot point. Dimension G see page 1-42.</td> </tr> <tr> <td>A</td> <td>Combination of C+L</td> </tr> <tr> <td>K</td> <td>Combination of C+W</td> </tr> <tr> <td>J</td> <td>Combination of C+V</td> </tr> </tbody> </table> | | Cylinder type | | S | Double acting | L | Piston rod lock device. | W | Position sensor. Not for single acting cyl. | V | Combination of L+W | C | Cylinder with factory fitted centre trunnion and connection ports located 90° from pivot point. Dimension G see page 1-42. | A | Combination of C+L | K | Combination of C+W | J | Combination of C+V | <table border="1"> <thead> <tr> <th colspan="2">Cylinder bore mm</th> </tr> </thead> <tbody> <tr><td>032</td></tr> <tr><td>040</td></tr> <tr><td>050</td></tr> <tr><td>063</td></tr> <tr><td>080</td></tr> <tr><td>100</td></tr> <tr><td>125</td></tr> </tbody> </table> | Cylinder bore mm | | 032 | 040 | 050 | 063 | 080 | 100 | 125 | | | | <table border="1"> <thead> <tr> <th colspan="2">Stroke (mm)</th> </tr> </thead> <tbody> <tr> <td>E.G. 0025 = 25 mm</td> <td></td> </tr> <tr> <td colspan="2">For standard stroke length and max length see table page 1-38.</td> </tr> </tbody> </table> | Stroke (mm) | | E.G. 0025 = 25 mm | | For standard stroke length and max length see table page 1-38. | |
| Cylinder type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | Double acting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | Piston rod lock device. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W | Position sensor. Not for single acting cyl. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| K | Combination of C+W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | Combination of C+V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cylinder bore mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stroke (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E.G. 0025 = 25 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| For standard stroke length and max length see table page 1-38. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| D | Double acting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | Double acting through rod | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | Single acting spring return | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Pin screws and nuts in rear end cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | End cover screws in stainless screws | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | Piston rod with female thread | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sealing material | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| J | Low pressure hydraulic not for type L and W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard stroke lengths

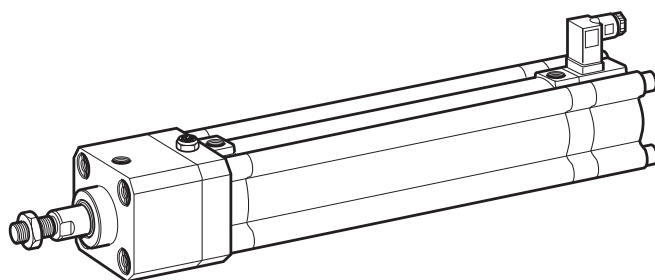
| Order code | Cylinder bore mm | ● Standard stroke lengths in mm | | | | | | | | | | ■ Non standard stroke | | | | | |
|---|---------------------|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----------------------|---|--|--|--|--|
| | | 25 | 50 | 80 | 100 | 125 | 160 | 200 | 250 | 320 | 400 | 500 | | | | | |
| Double acting  | | | | | | | | | | | | | | | | | |
| P1K-S032DT-S* | 32 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| P1K-S040DT-S* | 40 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| P1K-S050DT-S* | 50 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| P1K-S063DT-S* | 63 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| P1K-S080DT-S* | 80 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| P1K-S100DT-S* | 100 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| P1K-S125DT-S* | 125 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ■ | | | | |
| Single acting, push type  | | | | | | | | | | | | | | | | | |
| P1K-S032ST-S* | 32 | ● | ● | | | | | | | | | | ■ | | | | |
| P1K-S040ST-S* | 40 | ● | ● | | | | | | | | | | ■ | | | | |
| P1K-S050ST-S* | 50 | ● | ● | | | | | | | | | | ■ | | | | |
| P1K-S063ST-S* | 63 | ● | ● | | | | | | | | | | ■ | | | | |
| P1K-S080ST-S* | 80 | ● | ● | | | | | | | | | | ■ | | | | |
| P1K-S100ST-S* | 100 | ● | ● | | | | | | | | | | ■ | | | | |
| P1K-S125ST-S* | 125 | ● | ● | | | | | | | | | | ■ | | | | |
| Double acting, positioning  | | | | | | | | | | | | | | | | | |
| P1K-W040DT-S* | 40 | | | | ● | | | ● | | | ● | | ■ | | | | |
| P1K-W050DT-S* | 50 | | | | ● | | | ● | | | ● | | ■ | | | | |
| P1K-W063DT-S* | 63 | | | | ● | | | ● | | | ● | | ■ | | | | |
| Double acting, positioning, rod lock  | | | | | | | | | | | | | | | | | |
| P1K-V040DT-S* | 40 | | | | ● | | | ● | | | ● | | ■ | | | | |
| P1K-V050DT-S* | 50 | | | | ● | | | ● | | | ● | | ■ | | | | |
| P1K-V063DT-S* | 63 | | | | ● | | | ● | | | ● | | ■ | | | | |

*S = Stroke

Cylinder with position sensor

- Can be stopped at any position along entire stroke. Speed up to 1 m/s
- Absolute position transmitter ensures reliable position repeatability

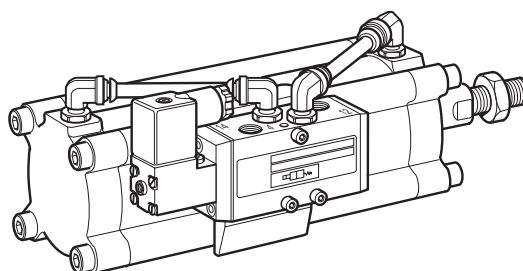
See technical leaflet 9127002192



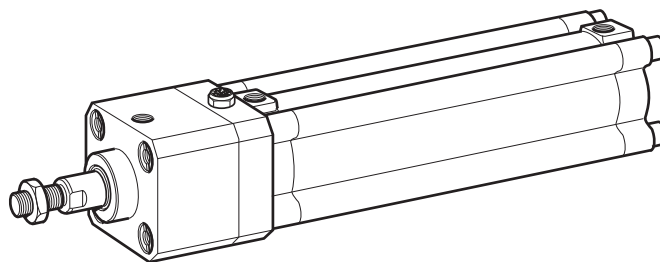
Cylinder with factory fitted valve

- P1K cylinder and valve mounted in a compact design ensuring quick operation
- Available on bore sizes 32 to 80 mm

See technical leaflet 9127002192



- Mechanical piston rod locking function
- The locking device is operated by pressure release
- A separate valve with quick exhaust is used for on/off control of the lock unit



For detailed information see technical leaflet 9127002192

Operating information

| | |
|----------------------|------------------------------|
| Working medium: | Dry, filtered compressed air |
| Working pressure: | Max 10 bar |
| Working temperature: | -20 to +80 °C |
| Release pressure: | Min 4 bar ± 10% |

* Signal pressure to connection port on locking unit.


Options and additional information

Non standard stroke available, max 2700 mm
Other data as for the basic cylinder

Note!

The piston rod should not be moving when the locking device operates. It is not intended to brake movement in a repeated sequence.

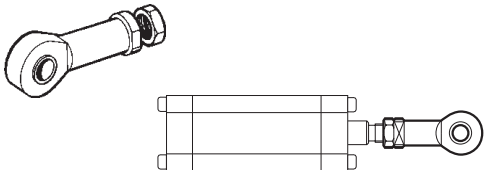
Main data for Rod lock device, P1KL

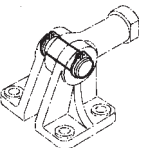
| Symbol | Cyl. bore mm | Rod thread mm | Port size | Order code | D |
|--|-----------------|------------------|-----------|-------------------------|---|
|  | 32 | 12/M10x1,25 | G1/8 | P1K-L032DT-XXXX* | 2 |
| | 40 | 16/M12x1,25 | G1/8 | P1K-L040DT-XXXX* | 2 |
| | 50 | 20/M16x1,5 | G1/8 | P1K-L050DT-XXXX* | 2 |
| | 63 | 20/M16x1,5 | G1/8 | P1K-L063DT-XXXX* | 2 |
| | 80 | 25/M20x1,5 | G1/4 | P1K-L080DT-XXXX* | 2 |
| | 100 | 32/M20x1,5 | G1/4 | P1K-L100DT-XXXX* | 2 |

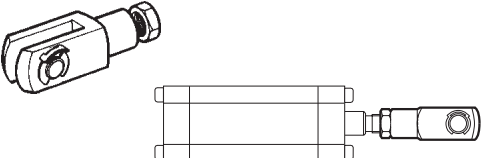
* XXXX = Stroke

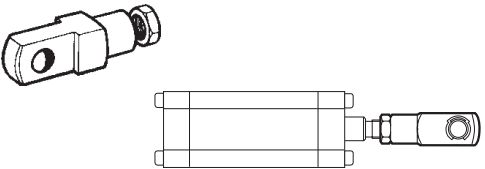
For detailed information see technical leaflet 9127002192

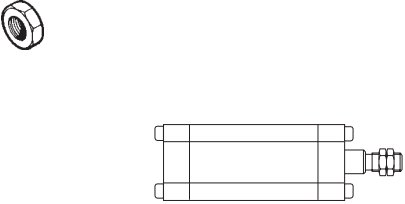
Piston rod mountings

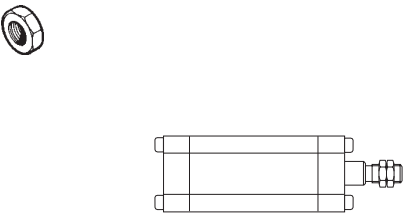
| Type | Material | Cyl. bore mm | Pin mm | Thread | Weight Kg | Order code | D |
|--|-------------------|-----------------|-----------|----------|--------------|-----------------|---|
| Swivel rod eye ISO 8139  | Zinc plated steel | 32 | 10 | M10x1,25 | 0,08 | P1C-4KRS | 1 |
| | | 40 | 12 | M12x1,25 | 0,12 | P1C-4LRS | 1 |
| | | 50 | 16 | M16x1,5 | 0,25 | P1C-4MRS | 1 |
| | | 63 | 16 | M16x1,5 | 0,25 | P1C-4MRS | 1 |
| | | 80 | 20 | M20x1,5 | 0,46 | P1C-4PRS | 1 |
| | | 100 | 20 | M20x1,5 | 0,46 | P1C-4PRS | 1 |
| | | 125 | 30 | M27x2 | 1,28 | P1C-4RRS | 1 |

| | | | | | | | |
|--|--|-----|----|--|------|---------------------|---|
| Pin for Pivot bracket + Swivel rod eye  | Hardened steel | 32 | 10 | | 0,02 | 9126 3426-07 | 1 |
| | Note! Pin only, bracket and rod eye to be ordered separately | 40 | 12 | | 0,04 | 9126 3426-03 | 1 |
| | | 50 | 16 | | 0,02 | 9126 3426-08 | 1 |
| | | 63 | 16 | | 0,02 | 9126 3426-08 | 1 |
| | | 80 | 20 | | 0,17 | 9126 3426-09 | 1 |
| | | 100 | 20 | | 0,17 | 9126 3426-09 | 1 |

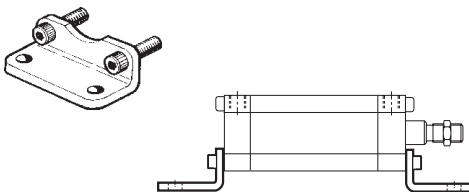
| | | | | | | | |
|---|-------------------|-----|----|----------|------|-----------------|---|
| Clevis ISO 8140  | Zinc plated steel | 32 | 10 | M10x1,25 | 0,10 | P1C-4KRC | 1 |
| | | 40 | 12 | M12x1,25 | 0,16 | P1C-4LRC | 1 |
| | | 50 | 16 | M16x1,5 | 0,35 | P1C-4MRC | 1 |
| | | 63 | 16 | M16x1,5 | 0,35 | P1C-4MRC | 1 |
| | | 80 | 20 | M20x1,5 | 0,75 | P1C-4PRC | 1 |
| | | 100 | 20 | M20x1,5 | 0,75 | P1C-4PRC | 1 |
| | | 125 | 30 | M27x2 | 2,10 | P1C-4RRC | 1 |

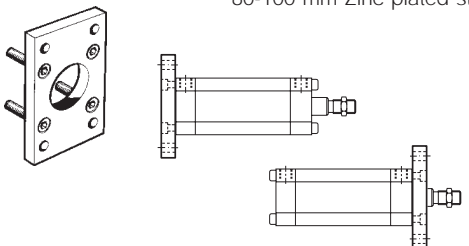
| | | | | | | | |
|---|-------------------|-----|----|----------|------|---------------------|---|
| Rod eye  | Zinc plated steel | 32 | 10 | M10x1,25 | 0,09 | 9121 6470-01 | 1 |
| | | 40 | 12 | M12x1,25 | 0,14 | 9121 6470-02 | 1 |
| | | 50 | 16 | M16x1,5 | 0,34 | 9121 6470-03 | 1 |
| | | 63 | 16 | M16x1,5 | 0,34 | 9121 6470-03 | 1 |
| | | 80 | 20 | M20x1,5 | 0,67 | 9121 6470-05 | 1 |
| | | 100 | 20 | M20x1,5 | 0,67 | 9121 6470-05 | 1 |

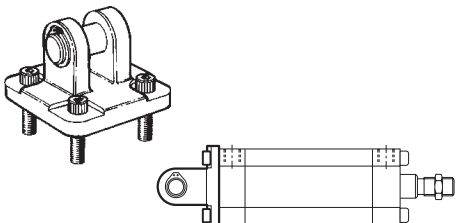
| | | | | | | | |
|--|-------------------|-----|--|----------|------|---------------------|---|
| Piston rod nut  | Zinc plated steel | 32 | | M10x1,25 | 0,01 | 9128 9856-01 | 1 |
| | | 40 | | M12x1,25 | 0,01 | 0261 1099-10 | 1 |
| | | 50 | | M16x1,5 | 0,02 | 9128 9856-03 | 1 |
| | | 63 | | M16x1,5 | 0,02 | 9128 9856-03 | 1 |
| | | 80 | | M20x1,5 | 0,03 | 0261 1099-11 | 1 |
| | | 100 | | M20x1,5 | 0,03 | 0261 1099-11 | 1 |
| | | 125 | | M27x2 | 0,10 | 0261 1099-12 | 1 |

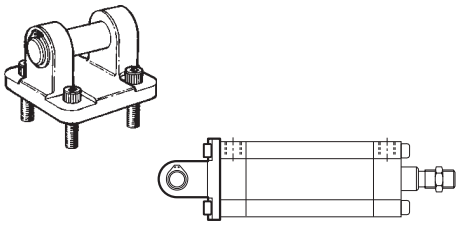
| | | | | | | | |
|--|-----------------|-----|--|----------|------|---------------------|---|
| Piston rod nut  | Stainless steel | 32 | | M10x1,25 | 0,01 | 9128 7254-04 | 1 |
| | | 40 | | M12x1,25 | 0,01 | 9128 7254-05 | 1 |
| | | 50 | | M16x1,5 | 0,02 | 9128 7254-06 | 1 |
| | | 63 | | M16x1,5 | 0,02 | 9128 7254-06 | 1 |
| | | 80 | | M20x1,5 | 0,03 | 0261 1099-21 | 1 |
| | | 100 | | M20x1,5 | 0,03 | 0261 1099-21 | 1 |
| | | 125 | | M27x2 | 0,10 | 0261 1099-22 | 1 |

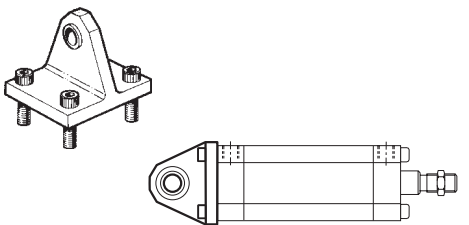
Cylinder mountings

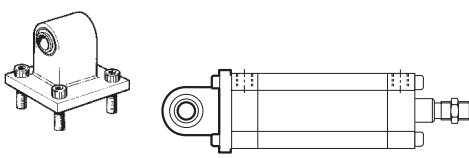
| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|---|-------------------|-----------------|-----------|--------------|---------------------|---|
| Foot bracket MS1  | Zinc plated steel | 32 | | 0,08 | 9121 6448-01 | 1 |
| | | 40 | | 0,11 | 9121 6448-02 | 1 |
| | | 50 | | 0,18 | 9121 6448-03 | 1 |
| | | 63 | | 0,26 | 9121 6448-04 | 1 |
| | | 80 | | 0,50 | 9121 6448-05 | 1 |
| | | 100 | | 0,80 | 9121 6448-06 | 1 |
| | | 125 | | 1,40 | 9121 6448-07 | 1 |

| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|---|-----------------------------|-----------------|-----------|--------------|---------------------|---|
| Flange MF1 and MF2  | 32-63 mm Anodised aluminium | 32 | | 0,26 | 9121 6449-01 | 1 |
| | 80-100 mm Zinc plated steel | 40 | | 0,37 | 9121 6449-02 | 1 |
| | | 50 | | 0,52 | 9121 6449-03 | 1 |
| | | 63 | | 0,90 | 9121 6449-04 | 1 |
| | | 80 | | 1,59 | 9121 6449-05 | 1 |
| | | 100 | | 2,19 | 9121 6449-06 | 1 |
| | | 125 | | 3,90 | 9121 6449-07 | 1 |

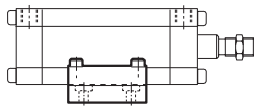
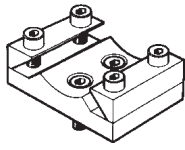
| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|--|--------------------|-----------------|-----------|--------------|---------------------|---|
| Clevis bracket MP4  | Anodised aluminium | 32 | 10 | 0,05 | 9121 6446-01 | 1 |
| | | 40 | 12 | 0,13 | 9121 6446-02 | 1 |
| | | 50 | 12 | 0,18 | 9121 6446-03 | 1 |
| | | 63 | 16 | 0,34 | 9121 6446-04 | 1 |
| | | 80 | 16 | 0,57 | 9121 6446-05 | 1 |
| | | 100 | 20 | 0,91 | 9121 6446-06 | 1 |
| | | 125 | 25 | 2,90 | 9121 6446-07 | 1 |

| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|---|--------------------|-----------------|-----------|--------------|---------------------|---|
| Clevis bracket MP2  | Anodised aluminium | 32 | 10 | 0,13 | 9121 6447-01 | 1 |
| | | 40 | 12 | 0,19 | 9121 6447-02 | 1 |
| | | 50 | 12 | 0,22 | 9121 6447-03 | 1 |
| | | 63 | 16 | 0,40 | 9121 6447-04 | 1 |
| | | 80 | 16 | 0,65 | 9121 6447-05 | 1 |
| | | 100 | 20 | 1,09 | 9121 6447-06 | 1 |
| | | 125 | 25 | 3,60 | 9121 6447-07 | 1 |

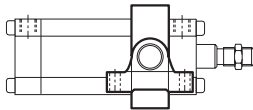
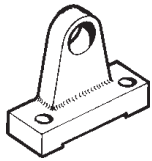
| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|---|--------------------|-----------------|-----------|--------------|---------------------|---|
| Swivel eye bracket  | Anodised aluminium | 32 | 10 | 0,08 | 9121 5686-01 | 1 |
| | | 40 | 12 | 0,12 | 9121 5686-02 | 1 |
| | | 50 | 12 | 0,17 | 9121 5686-03 | 1 |
| | | 63 | 16 | 0,30 | 9121 5686-04 | 1 |
| | | 80 | 16 | 0,49 | 9121 5686-05 | 1 |
| | | 100 | 20 | 0,73 | 9121 5686-06 | 1 |
| | | 125 | 25 | 2,40 | 9121 5686-07 | 1 |

| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|--|--------------------|-----------------|-----------|--------------|---------------------|---|
| Bracket with rubber bushing  | Anodised aluminium | 40 | 12 | 0,14 | 9121 6588-02 | 1 |
| | | 50 | 12 | 0,18 | 9121 6588-03 | 1 |
| | | 63 | 16 | 0,41 | 9121 6588-04 | 1 |

| Type | Material | Cyl. bore mm | Pin mm | Weight Kg | Order code | D |
|----------------------------------|-----------------------|-----------------|-----------|--------------|---------------------|---|
| Adjustable barrel bracket | Zinc plated cast iron | 32 | | 0,29 | 9122 4005-01 | 1 |
| | | 40 | | 0,41 | 9122 4005-02 | 1 |
| | | 50 | | 0,74 | 9122 4005-03 | 1 |
| | | 63 | | 1,08 | 9122 4005-04 | 1 |

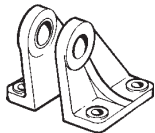


| | | | | | | |
|--------------------------------|-----------------------|-----|----|-------|---------------------|---|
| Bearing bracket for MT4 | Zinc plated cast iron | 32 | 12 | 0,06* | 9121 5693-01 | 1 |
| | | 40 | 16 | 0,12* | 9121 5693-02 | 1 |
| | | 50 | 16 | 0,24* | 9121 5693-03 | 1 |
| | | 63 | 20 | 0,44* | 9121 5693-04 | 1 |
| | | 80 | 20 | 0,66* | 9121 5693-05 | 1 |
| | | 100 | 25 | 2,20* | 9121 5693-06 | 1 |
| | | 125 | 25 | 2,20* | 9121 5693-06 | 1 |



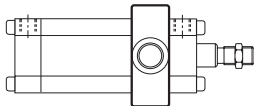
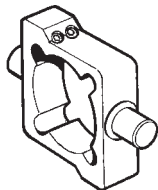
* Weight in pairs, supplied in pairs

| | | | | | | |
|----------------------|-----------------------|-----|----|-------|---------------------|---|
| Pivot bracket | Zinc plated cast iron | 32 | 10 | 0,10* | 9121 6584-01 | 1 |
| | | 40 | 12 | 0,12* | 9121 6584-02 | 1 |
| | | 50 | 12 | 0,26* | 9121 6584-03 | 1 |
| | | 63 | 16 | 0,34* | 9121 6584-04 | 1 |
| | | 80 | 16 | 0,60* | 9121 6584-05 | 1 |
| | | 100 | 20 | 0,93* | 9121 6584-06 | 1 |



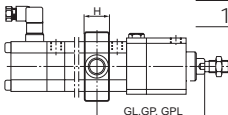
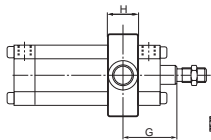
*Weight in pairs, supplied in pairs

| | | | | | | |
|--|-----------------------|-----|----|------|---------------------|---|
| Centre trunnion MT4 Trunnion only | Zinc plated cast iron | 32 | 12 | 0,24 | 9123 9714-01 | 1 |
| | | 40 | 16 | 0,39 | 9123 9714-02 | 1 |
| | | 50 | 16 | 0,63 | 9123 9714-03 | 1 |
| | | 63 | 20 | 0,90 | 9123 9714-04 | 1 |
| | | 80 | 20 | 1,62 | 9123 9714-05 | 1 |
| | | 100 | 25 | 2,37 | 9123 9714-06 | 1 |
| | | 125 | 25 | 4,30 | 9123 9714-07 | 1 |



| Type | Cyl. bore mm | Standard cylinder | Rod lock cylinder | Positioning cylinder | Rod lock Positioning cylinder | Order code | D |
|------|-----------------|------------------------|-------------------------|-------------------------|-------------------------------|------------|---|
| | | G _{std} mm | G _{Lstd} mm | G _{Pstd} mm | G _{PLstd} mm | | |

| | | | | | | | |
|---|-----|----|-----|----|-----|-----------------------|---|
| Centre trunnion MT4 Complete, mounted trunnion | 32 | 45 | 111 | | | See pages 1-37 | 2 |
| | 40 | 48 | 116 | 48 | 116 | See pages 1-37 | 2 |
| | 50 | 49 | 124 | 49 | 124 | See pages 1-37 | 2 |
| | 63 | 54 | 146 | 54 | 146 | See pages 1-37 | 2 |
| | 80 | 66 | 177 | | | See pages 1-37 | 2 |
| | 100 | 71 | 203 | | | See pages 1-37 | 2 |
| | 125 | 81 | | | | See pages 1-37 | 2 |



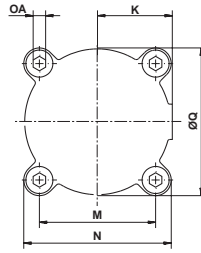
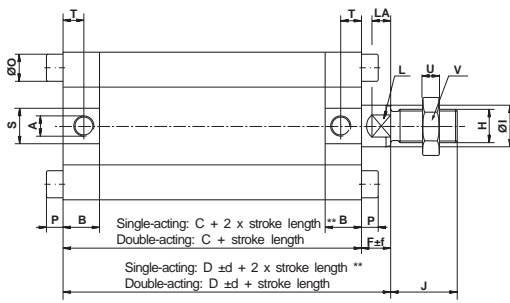
G±2 mm

Note! The centre trunnion is mounted on the cylinder barrel close to the front end cover according to a dimension determined at the factory, unless otherwise specified. After this, the position of the trunnion cannot be changed. If any other installation dimension is required or if the centre trunnion is required for separate delivery, this must be specified when ordering.

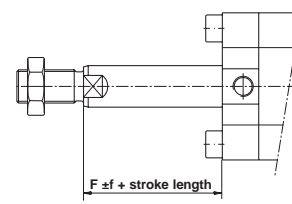
Can be combined with Bearing brackets or Pivot brackets.

Note! If a non-standard G dimension is required this must be specified when ordering.

Dimensions, basic cylinder



P1KU, through piston rod

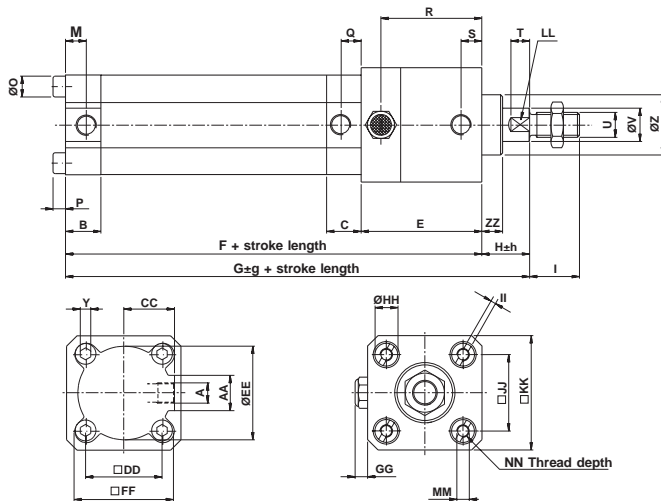


| Cylinder bore | A | B | C | D | F | H | I | J | K | L | LA | M | N | O | OA |
|---------------|------|------|------|-------|----|----------|----|----|------|----|----|-------|-------|------|----|
| 32 | G1/8 | 17,0 | 65 | 75 | 10 | M10x1,25 | 12 | 22 | 21,0 | 10 | 6 | 32,5 | 42,5 | 8,5 | 4 |
| 40 | G1/8 | 17,0 | 65 | 78 | 13 | M12x1,25 | 16 | 24 | 24,0 | 14 | 9 | 36,8 | 48,0 | 10,0 | 5 |
| 50 | G1/8 | 17,5 | 71 | 85 | 14 | M16x1,5 | 20 | 32 | 29,0 | 17 | 9 | 46,7 | 59,0 | 10,0 | 5 |
| 63 | G1/8 | 17,5 | 72 | 86 | 14 | M16x1,5 | 20 | 32 | 36,0 | 17 | 9 | 55,9 | 71,0 | 13,0 | 6 |
| 80 | G1/4 | 21,5 | 85 | 101 | 16 | M20x1,5 | 25 | 40 | 44,5 | 22 | 10 | 70,0 | 87,0 | 16,0 | 8 |
| 100 | G1/4 | 21,5 | 87 | 108 | 21 | M20x1,5 | 32 | 40 | 55,0 | 27 | 13 | 84,1 | 102,0 | 16,0 | 8 |
| 125 | G3/8 | 25,5 | 94,5 | 115,5 | 21 | M27x2 | 32 | 54 | 68,0 | 27 | 13 | 104,0 | 124,0 | 18,0 | 10 |

| Cylinder bore | P | Q | S | T | U | V | Assembly tolerances | | Stroke length tolerances 0-320 (at 6 bar) |
|---------------|----|-----|----|----|------|----|---------------------|-----|--|
| | | | | | | | d | f | |
| 32 | 5 | 37 | 17 | 10 | 5 | 17 | 0,9 | 1,2 | +2,0 |
| 40 | 6 | 45 | 17 | 10 | 6 | 19 | 0,9 | 1,2 | +2,0 |
| 50 | 6 | 56 | 17 | 10 | 8 | 24 | 0,9 | 1,2 | +2,0 |
| 63 | 8 | 70 | 17 | 10 | 8 | 24 | 1,2 | 1,6 | +2,5 |
| 80 | 10 | 87 | 21 | 12 | 10 | 30 | 1,2 | 1,6 | +2,5 |
| 100 | 10 | 108 | 21 | 12 | 10 | 30 | 1,2 | 1,6 | +2,5 |
| 125 | 12 | 134 | 25 | 14 | 13,5 | 41 | 1,2 | 1,6 | +2,5 |

* S = stroke length ** Stroke length for bore sizes 32-63 = 25 and 50 mm, for bore sizes 80-100 = 50 mm.

Dimensions, cylinder with piston rod locking

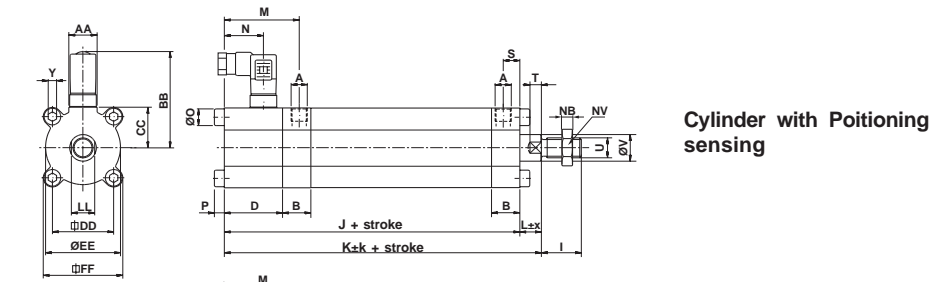


| Cylinder bore | A | AA | B | C | CC | DD | E | EE | F | FF | G | GG | H | HH | I | II | JJ | KK |
|---------------|------|----|------|------|------|------|-----|-----|-------|-------|-------|----|----|----|----|-----|------|-----|
| 32 | G1/8 | 17 | 17,0 | 16,6 | 21,0 | 32,5 | 55 | 37 | 119,5 | 42,5 | 140,5 | 6 | 21 | 8 | 22 | 2,0 | 32,5 | 50 |
| 40 | G1/8 | 17 | 17,0 | 16,6 | 24,0 | 36,8 | 58 | 45 | 122,5 | 48,0 | 145,5 | 6 | 23 | 11 | 24 | 2,5 | 36,8 | 55 |
| 50 | G1/8 | 17 | 17,5 | 17,1 | 29,0 | 46,7 | 63 | 56 | 133,5 | 59,0 | 159,5 | 6 | 26 | 11 | 32 | 2,5 | 46,7 | 65 |
| 63 | G1/8 | 17 | 17,5 | 17,1 | 36,0 | 55,9 | 74 | 70 | 145,5 | 71,0 | 177,5 | 6 | 32 | 13 | 32 | 2,5 | 55,9 | 75 |
| 80 | G1/4 | 21 | 21,5 | 21,0 | 44,5 | 70,0 | 96 | 87 | 180,5 | 87,0 | 211,5 | 6 | 31 | 17 | 40 | 3,0 | 70,0 | 95 |
| 100 | G1/4 | 21 | 21,5 | 21,0 | 55,0 | 84,1 | 118 | 108 | 204,5 | 102,0 | 239,5 | 6 | 35 | 17 | 40 | 3,0 | 84,1 | 115 |

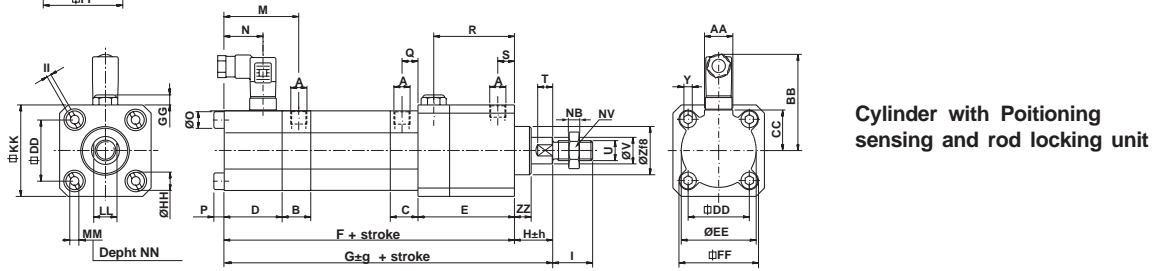
| Cylinder bore | LL | M | MM | NN | O | P | Q | R | S | T | U | V | Y | Z | ZZ |
|---------------|----|----|-----|------|-----|----|------|------|----|----|----------|----|---|----|----|
| 32 | 10 | 10 | M5 | 11,0 | 8,5 | 5 | 9,6 | 46,5 | 10 | 6 | M10x1,25 | 12 | 4 | 24 | 11 |
| 40 | 14 | 10 | M6 | 11,5 | 10 | 6 | 9,6 | 48,5 | 10 | 9 | M12x1,25 | 16 | 5 | 29 | 10 |
| 50 | 17 | 10 | M6 | 11,5 | 10 | 6 | 9,6 | 51,0 | 10 | 9 | M16x1,5 | 20 | 5 | 36 | 12 |
| 63 | 17 | 10 | M8 | 14,0 | 13 | 8 | 9,6 | 60,0 | 10 | 9 | M16x1,5 | 20 | 6 | 37 | 18 |
| 80 | 22 | 12 | M10 | 15,0 | 16 | 10 | 11,5 | 78,0 | 10 | 10 | M20x1,5 | 25 | 8 | 46 | 15 |
| 100 | 27 | 12 | M10 | 15,0 | 16 | 10 | 11,5 | 95,5 | 10 | 13 | M20x1,5 | 32 | 8 | 56 | 14 |

| Cylinder bore | Assembly tolerances | | Stroke length tolerances 0-320 (6 bar) |
|---------------|---------------------|-----|---|
| | g | h | |
| 32 | 0,9 | 1,2 | +2,0 |
| 40 | 0,9 | 1,2 | +2,0 |
| 50 | 0,9 | 1,2 | +2,0 |
| 63 | 1,2 | 1,6 | +2,5 |
| 80 | 1,2 | 1,6 | +2,5 |
| 100,2 | 1,6 | | +2,5 |

Dimensions, cylinder with positioning sensing



Cylinder with Positioning sensing



Cylinder with Positioning sensing and rod locking unit

| Cylinder bore | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|---------------|------|------|------|----|----|-------|-------|----|----|-------|-------|----|----|------|----|---|-----|------|
| P1KP-40 | G1/8 | 17,0 | | 35 | | | | | 24 | 128,0 | 141,0 | 13 | 45 | 23,5 | 10 | 6 | | |
| P1KP-50 | G1/8 | 17,5 | | 35 | | | | | 32 | 139,5 | 153,5 | 14 | 45 | 23,5 | 10 | 6 | | |
| P1KP-63 | G1/8 | 17,5 | | 35 | | | | | 32 | 139,5 | 153,5 | 14 | 45 | 23,5 | 13 | 8 | | |
| P1KPL-40 | G1/8 | 17,0 | 16,6 | 35 | 58 | 186,0 | 209,0 | 23 | 24 | | | | 45 | 23,5 | 10 | 6 | 9,6 | 48,5 |
| P1KPL-50 | G1/8 | 17,5 | 17,1 | 35 | 63 | 202,5 | 228,5 | 26 | 32 | | | | 45 | 23,5 | 10 | 6 | 9,6 | 51,0 |
| P1KPL-63 | G1/8 | 17,5 | 17,1 | 35 | 74 | 213,5 | 245,5 | 32 | 32 | | | | 45 | 23,5 | 13 | 8 | 9,6 | 60,0 |

| Cylinder bore | S | T | U | V | Y | Z | AA | BB | CC | DD | EE | FF | GG | HH | II | KK | LL |
|---------------|----|---|----------|----|---|----|----|----|----|------|----|------|----|----|-----|----|----|
| P1KP-40 | 10 | 9 | M12X1,25 | 16 | 5 | | 17 | 58 | 24 | 36,8 | 45 | 47,8 | | | | | 14 |
| P1KP-50 | 10 | 9 | M16X1,5 | 20 | 5 | | 17 | 63 | 29 | 46,7 | 56 | 58,7 | | | | | 17 |
| P1KP-63 | 10 | 9 | M16X1,5 | 20 | 6 | | 17 | 70 | 36 | 55,9 | 70 | 70,9 | | | | | 17 |
| P1KPL-40 | 10 | 9 | M12X1,25 | 16 | 5 | 29 | 17 | 58 | 24 | 36,8 | 45 | 47,8 | 6 | 11 | 2,5 | 55 | 14 |
| P1KPL-50 | 10 | 9 | M16X1,5 | 20 | 5 | 36 | 17 | 63 | 29 | 46,7 | 56 | 58,7 | 6 | 11 | 2,5 | 65 | 17 |
| P1KPL-63 | 10 | 9 | M16X1,5 | 20 | 6 | 37 | 17 | 70 | 36 | 55,9 | 70 | 70,9 | 6 | 13 | 2,5 | 75 | 17 |

| Cylinder bore | MM | NB | NN | NV | ZZ | Assembly tolerances | | | Stroke length tolerances | | |
|---------------|----|----|------|----|----|---------------------|---|---|--------------------------|------------------|-----------|
| | | | | | | g | h | k | x | 0-500 (at 6 bar) | |
| P1KP-40 | | 6 | | 19 | | | | | +1,5/-1,8 | +1,5/-0,5 | +2,5/+0,5 |
| P1KP-50 | | 8 | | 24 | | | | | +1,6/-1,3 | +1,3/-0,7 | +2,5/+1,0 |
| P1KP-63 | | 8 | | 24 | | | | | +1,6/-1,3 | +1,3/-0,7 | +2,5/+1,0 |
| P1KPL-40 | M6 | 6 | 11,5 | 19 | 10 | | | | +1,5/-1,8 | +2,2/-0,6 | +2,5/+0,5 |
| P1KPL-50 | M6 | 8 | 11,5 | 24 | 12 | | | | +1,6/-1,3 | +2,1/-0,8 | +2,5/+1,0 |
| P1KPL-63 | M6 | 8 | 14 | 24 | 18 | | | | +1,6/-1,3 | +2,1/-0,8 | +2,5/+1,0 |

Dimensions, mountings

Clevis bracket MP4

| | Cyl. bore | A | B | C | D | E | F | G | H | I | K | K _L | K _P | K _{PL} |
|---|-----------|-----|----|----|----|----|----|----|------|----|-------|----------------|----------------|-----------------|
| <p>Double acting: K+S Single acting: K+ 2xS</p> | 32 | 48 | 22 | 33 | 26 | 10 | 10 | 11 | 15,0 | 22 | 97 | 162,5 | | |
| | 40 | 54 | 24 | 35 | 28 | 12 | 12 | 12 | 21,0 | 28 | 106 | 173,5 | 169,0 | 237,0 |
| | 50 | 64 | 32 | 39 | 32 | 12 | 12 | 13 | 19,5 | 28 | 113 | 187,5 | 181,5 | 256,5 |
| | 63 | 76 | 39 | 47 | 40 | 16 | 16 | 17 | 26,0 | 36 | 122 | 213,5 | 189,5 | 281,5 |
| | 80 | 94 | 48 | 57 | 50 | 16 | 16 | 17 | 26,0 | 38 | 139 | 249,5 | | |
| | 100 | 110 | 62 | 67 | 60 | 20 | 20 | 21 | 29,0 | 43 | 151 | 282,5 | | |
| | 125 | 135 | 70 | 77 | 70 | 25 | 25 | 26 | 35,0 | 50 | 165,5 | | | |

S=stroke

Clevis bracket MP2

| | Cyl. bore | A | B | C | D | E | F | G | H | I | K | K _L | K _P | K _{PL} |
|---|-----------|-----|----|-----|-----|----|----|----|------|----|-------|----------------|----------------|-----------------|
| <p>Double acting: K+S Single acting: K+ 2xS</p> | 32 | 48 | 22 | 52 | 45 | 26 | 10 | 11 | 15,0 | 22 | 97 | 162,5 | | |
| | 40 | 54 | 24 | 59 | 52 | 28 | 12 | 12 | 21,0 | 28 | 106 | 173,5 | 169,0 | 237,0 |
| | 50 | 64 | 32 | 67 | 60 | 32 | 12 | 13 | 19,5 | 28 | 113 | 187,5 | 181,5 | 256,5 |
| | 63 | 76 | 39 | 77 | 70 | 40 | 16 | 17 | 26,0 | 36 | 122 | 213,5 | 189,5 | 281,5 |
| | 80 | 94 | 48 | 97 | 90 | 50 | 16 | 17 | 26,0 | 38 | 139 | 249,5 | | |
| | 100 | 110 | 62 | 117 | 110 | 60 | 20 | 21 | 29,0 | 43 | 151 | 282,5 | | |
| | 125 | 135 | 70 | 137 | 130 | 70 | 25 | 26 | 35,0 | 50 | 165,5 | | | |

S=stroke

Swivel eye bracket

| | Cyl. bore | A | B | C | D | F | G | H | I | K | K _L | K _P | K _{PL} |
|---|-----------|-----|----|------|------|----|------|------|----|-------|----------------|----------------|-----------------|
| <p>Double acting: K+S Single acting: K+ 2xS</p> | 32 | 48 | 9 | 7,5 | 13,0 | 10 | 12,5 | 15,0 | 22 | 97 | 162,5 | | |
| | 40 | 54 | 12 | 9,0 | 15,5 | 12 | 15,5 | 21,0 | 28 | 106 | 173,5 | 169,0 | 237,0 |
| | 50 | 64 | 12 | 9,0 | 15,5 | 12 | 16,5 | 19,5 | 28 | 113 | 187,5 | 181,5 | 256,5 |
| | 63 | 76 | 16 | 12,5 | 20,0 | 16 | 19,5 | 26,0 | 36 | 122 | 213,5 | 189,5 | 281,5 |
| | 80 | 94 | 16 | 12,5 | 20,0 | 16 | 21,5 | 26,0 | 38 | 139 | 249,5 | | |
| | 100 | 110 | 20 | 16,0 | 25,0 | 20 | 25,5 | 29,0 | 43 | 151 | 282,5 | | |
| | 125 | 135 | 25 | 20,5 | 30,5 | 25 | 30,0 | 35,0 | 50 | 165,5 | | | |

S=stroke

Angle bracket MS1

| Cyl. bore | A | B | C | D | E | F | G | H |
|-----------|-----|----|------|----|-----|----|----|----|
| 32 | 48 | 32 | 5,0 | 32 | 53 | 7 | 24 | 32 |
| 40 | 54 | 36 | 5,0 | 36 | 60 | 9 | 31 | 42 |
| 50 | 64 | 45 | 6,0 | 45 | 75 | 9 | 33 | 45 |
| 63 | 76 | 50 | 6,0 | 50 | 86 | 9 | 36 | 48 |
| 80 | 94 | 63 | 8,0 | 63 | 107 | 12 | 43 | 58 |
| 100 | 110 | 75 | 10,5 | 71 | 122 | 14 | 43 | 60 |
| 125 | 135 | 90 | 12,5 | 90 | 157 | 16 | 45 | 70 |

| Cyl. bore | I | I _L | I _P | I _{PL} | K | K _L | K _P | K _{PL} |
|-----------|-------|----------------|----------------|-----------------|-------|----------------|----------------|-----------------|
| 32 | 113 | 167,5 | | | 99 | 164,5 | | |
| 40 | 127 | 184,5 | 190,0 | 248,0 | 109 | 176,5 | 172,0 | 240,0 |
| 50 | 137 | 199,5 | 205,5 | 268,5 | 118 | 192,5 | 186,5 | 261,5 |
| 63 | 144 | 217,5 | 211,5 | 285,5 | 122 | 213,5 | 189,5 | 281,5 |
| 80 | 171 | 266,5 | | | 144 | 254,5 | | |
| 100 | 173 | 290,5 | | | 151 | 282,5 | | |
| 125 | 184,5 | - | | | 160,5 | - | | |

S=stroke

Flange MF1 and MF2

| Cyl. bore | A | B | C | D | E | F |
|-----------|-----|-----|-----|----|----|----|
| 32 | 80 | 64 | 48 | 32 | 7 | 10 |
| 40 | 90 | 72 | 54 | 36 | 9 | 13 |
| 50 | 110 | 90 | 64 | 45 | 9 | 13 |
| 63 | 120 | 100 | 76 | 50 | 9 | 16 |
| 80 | 155 | 126 | 94 | 63 | 12 | 18 |
| 100 | 180 | 150 | 110 | 75 | 14 | 18 |
| 125 | 220 | 180 | 135 | 90 | 16 | 20 |

| Cyl. bore | G | G _L | G _P | G _{PL} | H | H _L | H _P | H _{PL} | I |
|-----------|----|----------------|----------------|-----------------|-------|----------------|----------------|-----------------|----|
| 32 | 0 | 11 | | | 85 | 150,5 | | | 27 |
| 40 | 0 | 10 | 0 | 10 | 91 | 158,5 | 154,0 | 222,0 | 32 |
| 50 | 1 | 13 | 1 | 13 | 98 | 172,5 | 166,5 | 241,5 | 40 |
| 63 | -2 | 16 | -2 | 16 | 102 | 193,5 | 169,5 | 261,5 | 40 |
| 80 | -2 | 13 | | | 119 | 229,5 | | | 50 |
| 100 | 3 | 17 | | | 126 | 257,5 | | | 60 |
| 125 | 1 | - | | | 135,5 | - | | | 72 |

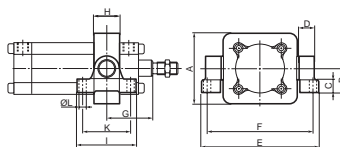
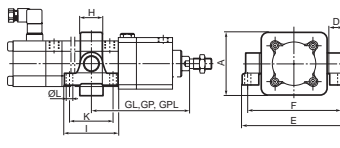
S=stroke

Centre trunnion MT4

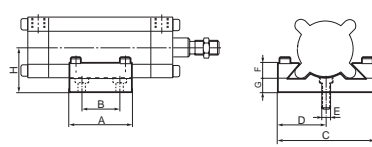
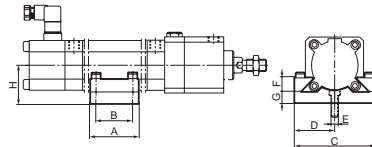
| Cyl. bore | A | B | C | D | E | F | G _{min} * | G _{Lmin} * | G _{Pmin} * | G _{PLmin} * | H |
|-----------|-----|----|-----|----|-----|-----|--------------------|---------------------|---------------------|----------------------|----|
| 32 | 55 | 12 | 50 | 12 | 49 | 74 | 45 | 111 | | | 25 |
| 40 | 65 | 16 | 63 | 16 | 61 | 95 | 48 | 116 | 48 | 116 | 25 |
| 50 | 75 | 16 | 75 | 16 | 73 | 107 | 49 | 124 | 49 | 124 | 30 |
| 63 | 90 | 20 | 90 | 20 | 88 | 130 | 54 | 146 | 54 | 146 | 35 |
| 80 | 110 | 20 | 110 | 20 | 108 | 150 | 66 | 177 | | | 40 |
| 100 | 132 | 25 | 132 | 25 | 130 | 182 | 71 | 203 | | | 45 |
| 125 | 160 | 25 | 160 | 25 | 158 | 210 | 81 | - | | | 55 |

*G ± 2 mm

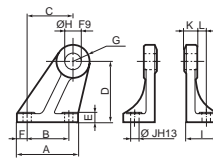
Pivot bracket

| | Cyl. bore | A | B | C | D | E | F | G _{min} | G _{Lmin} | G _{Pmin} | G _{PLmin} | H | I | K | L |
|---|-----------|-----|----|----|----|-----|-----|------------------|-------------------|-------------------|--------------------|----|-----|----|------|
|  | 32 | 55 | 21 | 10 | 12 | 88 | 78 | 45 | 111 | | | 25 | 37 | 27 | 5,5 |
| | 40 | 65 | 22 | 11 | 16 | 103 | 91 | 48 | 116 | 48 | 116 | 25 | 55 | 44 | 6,6 |
| | 50 | 75 | 35 | 14 | 16 | 125 | 106 | 49 | 124 | 49 | 124 | 30 | 82 | 65 | 9,0 |
| | 63 | 90 | 40 | 16 | 20 | 156 | 134 | 54 | 146 | 54 | 146 | 35 | 99 | 80 | 9,0 |
| | 80 | 110 | 48 | 18 | 20 | 178 | 152 | 66 | 177 | | | 40 | 118 | 96 | 11,0 |
| | 100 | 132 | 48 | 22 | 25 | 206 | 182 | 71 | 203 | | | 45 | 118 | 96 | 11,0 |
| | 125 | 160 | 48 | 22 | 25 | 234 | 210 | 81 | - | | | 55 | 118 | 96 | 11,0 |
|  | | | | | | | | | | | | | | | |

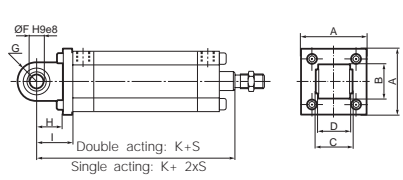
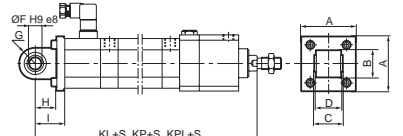
Adjustable barrel bracket

| | Cyl. bore | A | B | C | D | ØE | F | G | H | H tol. |
|--|-----------|----|----|-----|------|------|------|------|------|-----------|
|  | 32 | 40 | 30 | 70 | 35,0 | 5,8 | 13,5 | 10,5 | 32 | +1,0 -0,5 |
| | 40 | 50 | 30 | 77 | 39,0 | 6,8 | 12,5 | 11,5 | 36 | +1,0 -0,5 |
| | 50 | 60 | 30 | 93 | 46,5 | 8,8 | 13,5 | 15,5 | 45,5 | +1,1 -0,5 |
| | 63 | 70 | 40 | 112 | 56,0 | 10,8 | 16,5 | 18,5 | 54,5 | +1,1 -0,5 |
|  | | | | | | | | | | |

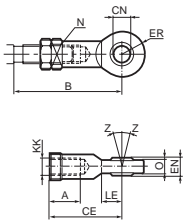
Pivot bracket

| | Cyl. bore | A | B | C | D | E | F | G | H | I | J | K | L |
|---|-----------|------|----|----|----|----|-----|------|----|------|-----|------|-----|
|  | 32 | 30,5 | 18 | 21 | 32 | 6 | 6,0 | 9,5 | 10 | 17,5 | 5,5 | 5,5 | 6,0 |
| | 40 | 34,5 | 22 | 24 | 36 | 6 | 6,0 | 10,5 | 12 | 18,0 | 5,5 | 5,5 | 6,5 |
| | 50 | 44,5 | 30 | 33 | 45 | 8 | 7,0 | 12,5 | 12 | 23,0 | 6,6 | 7,5 | 9,0 |
| | 63 | 49,5 | 35 | 37 | 50 | 9 | 7,0 | 14,5 | 16 | 21,5 | 6,6 | 9,0 | 6,0 |
| | 80 | 59,0 | 40 | 47 | 63 | 10 | 9,5 | 14,5 | 16 | 30,5 | 9,0 | 14,0 | 8,0 |
| | 100 | 69,0 | 50 | 55 | 71 | 10 | 9,5 | 18,5 | 20 | 33,0 | 9,0 | 17,0 | 8,0 |

Swivel mount with rubber bushing

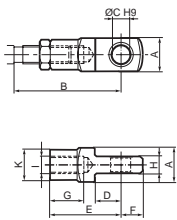
| | Cyl. bore | A | B | C | D | F | G | H | I | K | K _L | K _P | K _{PL} |
|---|-----------|----|----|------|----|----|------|------|----|-----|----------------|----------------|-----------------|
|  <p>Double acting: K+S Single acting: K+ 2xS</p> | 40 | 54 | 31 | 27,0 | 22 | 12 | 15,5 | 21,0 | 28 | 106 | 173,5 | 169,0 | 237,0 |
| | 50 | 64 | 31 | 31,0 | 26 | 12 | 15,5 | 19,5 | 28 | 113 | 187,5 | 181,5 | 256,5 |
| | 63 | 76 | 43 | 39,5 | 35 | 16 | 21,5 | 26,0 | 36 | 122 | 213,5 | 189,5 | 281,5 |
|  <p>KL+S, KP+S, KPL+S</p> | | | | | | | | | | | | | |

Swivel rod eye



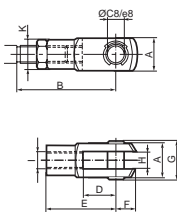
| Cyl. bore | A | B min | B max | CE | CN H9 | EN h12 | ER | KK | LE min | N | O | Z |
|-----------|----|-------|-------|-----|-------|--------|----|----------|--------|----|------|-----|
| 32 | 20 | 48,0 | 55 | 43 | 10 | 14 | 14 | M10x1,25 | 15 | 17 | 10,5 | 12° |
| 40 | 22 | 56,0 | 62 | 50 | 12 | 16 | 16 | M12x1,25 | 17 | 19 | 12,0 | 12° |
| 50 | 28 | 72,0 | 80 | 64 | 16 | 21 | 21 | M16x1,5 | 22 | 22 | 15,0 | 15° |
| 63 | 28 | 72,0 | 80 | 64 | 16 | 21 | 21 | M16x1,5 | 22 | 22 | 15,0 | 15° |
| 80 | 33 | 87,0 | 97 | 77 | 20 | 25 | 25 | M20x1,5 | 26 | 32 | 18,0 | 15° |
| 100 | 33 | 87,0 | 97 | 77 | 20 | 25 | 25 | M20x1,5 | 26 | 32 | 18,0 | 15° |
| 125 | 51 | 123,5 | 137 | 110 | 30 | 37 | 35 | M27x2 | 36 | 41 | 25,0 | 15° |

Piston rod eye



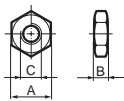
| Cyl. bore | A | B _{min} | B _{max} | C | D | E | F | G | H | I | K |
|-----------|----|------------------|------------------|----|----|----|----|----|----|----------|----|
| 32 | 20 | 46 | 52 | 10 | 15 | 40 | 12 | 16 | 10 | M10x1,25 | 18 |
| 40 | 24 | 55 | 61 | 12 | 18 | 48 | 14 | 17 | 12 | M12x1,25 | 20 |
| 50 | 32 | 72 | 80 | 16 | 24 | 64 | 19 | 24 | 16 | M16x1,5 | 26 |
| 63 | 32 | 72 | 80 | 16 | 24 | 64 | 19 | 24 | 16 | M16x1,5 | 26 |
| 80 | 40 | 89 | 100 | 20 | 30 | 80 | 25 | 31 | 20 | M20x1,5 | 34 |
| 100 | 40 | 89 | 100 | 20 | 30 | 80 | 25 | 31 | 20 | M20x1,5 | 34 |

Clevis



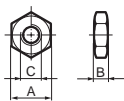
| Cyl. bore | A | B min | B max | CE | CK h11/E9 | CL | CM | ER | KKLE | M | O | |
|-----------|----|-------|-------|-----|-----------|----|----|----|----------|----|------|------|
| 32 | 20 | 45,0 | 52 | 40 | 10 | 20 | 10 | 16 | M10x1,25 | 20 | 5,0 | 28,0 |
| 40 | 24 | 54,0 | 60 | 48 | 12 | 24 | 12 | 19 | M12x1,25 | 24 | 6,0 | 32,0 |
| 50 | 32 | 72,0 | 80 | 64 | 16 | 32 | 16 | 25 | M16x1,5 | 32 | 8,0 | 41,5 |
| 63 | 32 | 72,0 | 80 | 64 | 16 | 32 | 16 | 25 | M16x1,5 | 32 | 8,0 | 41,5 |
| 80 | 40 | 90,0 | 100 | 80 | 20 | 40 | 20 | 32 | M20x1,5 | 40 | 10,0 | 50,0 |
| 100 | 40 | 90,0 | 100 | 80 | 20 | 40 | 20 | 32 | M20x1,5 | 40 | 10,0 | 50,0 |
| 125 | 56 | 123,5 | 137 | 110 | 30 | 55 | 30 | 45 | M27x2 | 54 | 13,5 | 72,0 |

Rod nut



| Cyl. bore | A | B | C |
|-----------|----|----|----------|
| 32 | 17 | 5 | M10x1,25 |
| 40 | 19 | 6 | M12x1,25 |
| 50 | 24 | 8 | M16x1,5 |
| 63 | 24 | 8 | M16x1,5 |
| 80 | 30 | 10 | M20x1,5 |
| 100 | 30 | 10 | M20x1,5 |
| 125 | 41 | 12 | M27x2 |

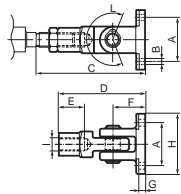
Stainless steel rod nut



| Cyl. bore | A | B | C |
|-----------|----|----|----------|
| 32 | 17 | 5 | M10x1,25 |
| 40 | 19 | 6 | M12x1,25 |
| 50 | 24 | 8 | M16x1,5 |
| 63 | 24 | 8 | M16x1,5 |
| 80 | 30 | 10 | M20x1,5 |
| 100 | 30 | 10 | M20x1,5 |
| 125 | 41 | 12 | M27x2 |

Piston rod eye and Clevis bracket MP4

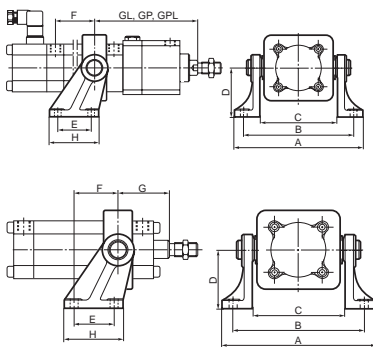
| Cyl. bore | A | B | C _{min} | C _{max} | D | E | F | G | H | I | L |
|-----------|------|------|------------------|------------------|-----|----|----|----|-----|----------|------|
| 32 | 32,5 | 5,5 | 68 | 76 | 62 | 16 | 22 | 7 | 48 | M10x1,25 | 208° |
| 40 | 36,8 | 6,6 | 83 | 90 | 76 | 17 | 28 | 7 | 54 | M12x1,25 | 223° |
| 50 | 55,9 | 9,0 | 100 | 111 | 92 | 24 | 28 | 10 | 76 | M16x1,5 | 212° |
| 63 | 55,9 | 9,0 | 108 | 119 | 100 | 24 | 36 | 10 | 76 | M16x1,5 | 217° |
| 80 | 84,1 | 11,0 | 127 | 142 | 118 | 31 | 38 | 14 | 110 | M20x1,5 | 210° |
| 100 | 84,1 | 11,0 | 132 | 147 | 123 | 31 | 43 | 14 | 110 | M20x1,5 | 205° |



Pivot bracket and Centre trunnion MT4

| Cyl. bore | A | B | C | D | E | F | G _{min} * | G _{Lmin} * | G _{Pmin} * | G _{PLmin} * | H _m |
|-----------|-----|-----|-----|----|----|----|--------------------|---------------------|---------------------|----------------------|----------------|
| 32 | 87 | 74 | 50 | 36 | 22 | 24 | 45 | 111 | | | 34,5 |
| 32 | 98 | 83 | 50 | 45 | 30 | 33 | 45 | 111 | | | 44,5 |
| 40 | 108 | 93 | 63 | 50 | 35 | 37 | 48 | 116 | 48 | 116 | 49,5 |
| 40 | 127 | 107 | 63 | 63 | 40 | 47 | 48 | 116 | 48 | 116 | 59,0 |
| 50 | 120 | 105 | 75 | 50 | 35 | 37 | 49 | 124 | 49 | 124 | 49,5 |
| 50 | 139 | 119 | 75 | 63 | 40 | 47 | 49 | 124 | 49 | 124 | 59,0 |
| 63 | 160 | 140 | 90 | 71 | 50 | 55 | 54 | 146 | 54 | 146 | 69,0 |
| 80 | 180 | 160 | 110 | 71 | 50 | 55 | 66 | 177 | | | 69,0 |

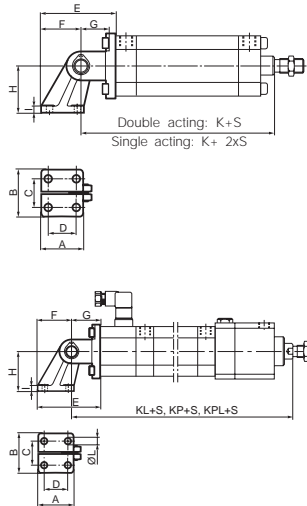
* G ± 2 mm



Pivot bracket and Clevis bracket MP2

| Cyl. bore | A | B | C | D | E | F | G | H | I | K | K _L | K _P | K _{PL} |
|-----------|------|----|----|----|-------|------|------|----|----|-----|----------------|----------------|-----------------|
| 32 | 30,5 | 50 | 38 | 18 | 49,5 | 27,5 | 16,0 | 32 | 6 | 97 | 162,5 | | |
| 40 | 34,5 | 53 | 41 | 22 | 58,5 | 30,5 | 21,0 | 36 | 6 | 106 | 173,5 | 169,0 | 237,0 |
| 50 | 44,5 | 63 | 50 | 30 | 68,5 | 40,5 | 19,5 | 45 | 8 | 113 | 187,5 | 181,5 | 256,5 |
| 63 | 49,5 | 65 | 52 | 35 | 80,5 | 44,5 | 26,0 | 50 | 9 | 122 | 213,5 | 189,5 | 281,5 |
| 80 | 59,0 | 83 | 66 | 40 | 95,0 | 57,0 | 26,0 | 63 | 10 | 139 | 249,5 | | |
| 100 | 70,0 | 92 | 76 | 50 | 108,0 | 65,0 | 29,0 | 71 | 10 | 151 | 282,5 | | |

S = Stroke



Pivot bracket and Swivel eye bracket

| | Cyl. bore | A | B | C | D | E | F | G | H | I | K | K _L | K _P | K _{PL} |
|----------|-----------|------|----|----|----|-------|------|------|----|----|-----|----------------|----------------|-----------------|
| | 32 | 30,5 | 44 | 32 | 18 | 49,5 | 27,5 | 15,0 | 32 | 6 | 97 | 162,5 | | |
| | 40 | 34,5 | 48 | 36 | 22 | 58,5 | 30,5 | 21,0 | 36 | 6 | 106 | 173,5 | 169,0 | 237,0 |
| | 50 | 44,5 | 58 | 45 | 30 | 68,5 | 40,5 | 19,5 | 45 | 8 | 113 | 187,5 | 181,5 | 256,5 |
| | 63 | 49,5 | 59 | 46 | 35 | 80,5 | 44,5 | 26,0 | 50 | 9 | 122 | 213,5 | 189,5 | 281,5 |
| | 80 | 59,0 | 77 | 60 | 40 | 95,0 | 57,0 | 26,0 | 63 | 10 | 139 | 249,5 | | |
| | 100 | 70,0 | 86 | 70 | 50 | 108,0 | 65,0 | 29,0 | 71 | 10 | 151 | 282,5 | | |
| S=stroke | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Tightening torques

Tighten the bolts used with mountings to the following torques.
When using other mounting fittings, the following metal thickness apply when using the cylinder's end cover bolts.

| Cylinder bore mm | Tightening torque Nm | Maximum metal thickness mm |
|---------------------|-------------------------|-------------------------------|
| 32 | 4,5±0,5 | 7,0 |
| 40 | 8±0,8 | 7,0 |
| 50 | 8±0,8 | 8,5 |
| 63 | 20±2 | 10,0 |
| 80 | 40±4 | 12,0 |
| 100 | 40±4 | 14,0 |

Note the following for P1KP, P1KPL and P1KL

Take care when fitting mounts to the rear end cover. If the terminal box cover has been removed, check that the cables are not trapped between it and the rear end cover. The bolts supplied with the mount are intended to be used with the front end cover (the piston rod locking unit) on the P1KL and P1KPL.