

| Standard executions | | | |
|---------------------|--------|--------|------------|
| Version | Symbol | Code | Item |
| Normally closed | | 042001 | ABS 032CRD |
| | | 042002 | ABS 040CRD |
| | | 042003 | ABS 050CRD |
| | | 042004 | ABS 063CRD |
| | | 042005 | ABS 080CRD |
| | | 042006 | ABS 100CRD |
| | | 042007 | ABS 125CRD |
| Normally open | | 042011 | ABS 032ARD |
| | | 042012 | ABS 040ARD |
| | | 042013 | ABS 050ARD |
| | | 042014 | ABS 063ARD |
| | | 042015 | ABS 080ARD |
| | | 042016 | ABS 100ARD |
| | | 042017 | ABS 125ARD |



Series of static locking-rod units for cylinders ISO15552. The piston-rod brakes series ABS can be supplied normally closed or normally open.

The main applications are the locking of the piston-rod in the event of a pressure lack or failure or in all those cases where a stop for a machining or handling is necessary.

The clamping forces are suitable for a working pressure of the cylinder equal to 8 bar and act in both directions.

For the application of the piston-rod brake ABS to a cylinder ISO15552 is necessary to order the cylinder with the rod predisposed for this (the extended one in hardened steel, option B, see page 1.5.1).

How to order: ABS050CRD

| ABS | 050 | CRD |
|------|-------|--------|
| Type | Bores | Option |

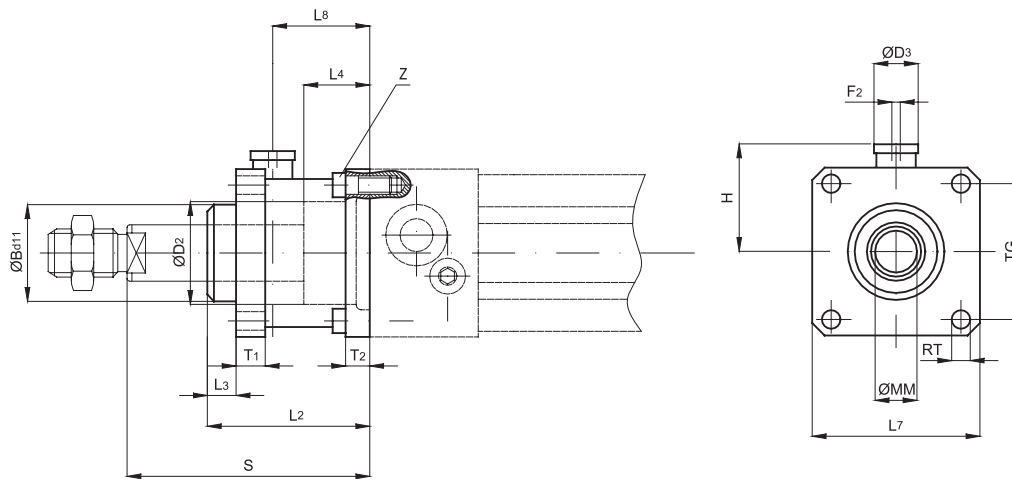
For standard items, codes and dimensions see tables page 1.75.5.

Seal kits not available.

| Technical data | | | | | | | |
|-------------------|--|------|------|------|------|------|------|
| Bores (mm) | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Fluid | Compressed filtered air with or without lubrication | | | | | | |
| Pressure | 4 ÷ 8 bar | | | | | | |
| Locking force (N) | 650 | 1100 | 1600 | 2500 | 4000 | 6300 | 8700 |
| Temperature range | -10 °C ÷ +80° C | | | | | | |
| Materials | Body: Anodised aluminium Jaws: Brass Seals: Nitrile rubber (NBR) Locking cylinder: Anodised aluminium | | | | | | |

WARNING: working of piston rod-brake type ABS is static: before clamping is necessary to arrest the rod, is not usable for reducing the speed of the rod while moving.

The locking-rod unit must only be unlocked when the pressures of both chambers of the cylinder are balanced, or the rod of the cylinder could move with non-uniform motion, causing problems to the application.



| For cylinder Ø mm | B Ø | D ₂ Ø | D ₃ Ø | F ₂ | H | L ₂ | L ₃ | L ₄ | L ₇ | L ₈ Ø | MM | RT | T ₁ | T ₂ | TG | Z | S |
|----------------------|--------|---------------------|---------------------|----------------|------|----------------|----------------|----------------|----------------|---------------------|----|-----|----------------|----------------|------|--------|-----|
| 32 | 30 | 30,5 | 20 | M5 | 25,5 | 58 | 10 | 20,5 | 45 | 31,5 | 12 | M6 | 13 | 8 | 32,5 | M6x20 | 74 |
| 40 | 35 | 35 | 24 | 1/8" | 30 | 65 | 10 | 22,5 | 50 | 36 | 16 | M6 | 13 | 8 | 38 | M6x20 | 85 |
| 50 | 40 | 40 | 30 | 1/8" | 36 | 82 | 12 | 29,5 | 60 | 45,5 | 20 | M8 | 16 | 15 | 46,5 | M8x30 | 107 |
| 63 | 45 | 45 | 38 | 1/8" | 40 | 82 | 12 | 29,5 | 70 | 49,5 | 20 | M8 | 16 | 15 | 56,5 | M8x30 | 107 |
| 80 | 45 | 45 | 48 | 1/8" | 50 | 110 | 20 | 35 | 90 | 61 | 25 | M10 | 20 | 18 | 72 | M10x35 | 136 |
| 100 | 55 | 55 | 48 | 1/8" | 58 | 115 | 23 | 39 | 105 | 65 | 25 | M10 | 20 | 18 | 89 | M10x35 | 143 |
| 125 | 60 | 60 | 65 | 1/8" | 80 | 167 | 45 | 51 | 140 | 86,5 | 32 | M12 | 30 | 22 | 110 | M12x40 | 187 |