

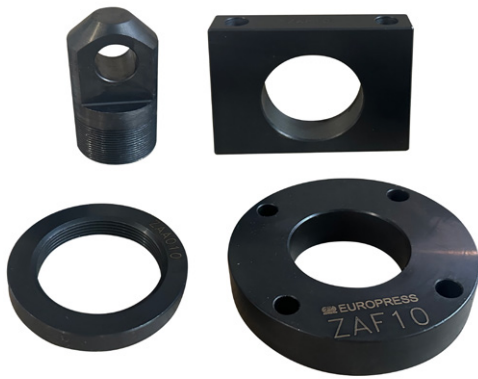
COD

INDUSTRIAL CYLINDERS DOUBLE ACTING OIL RETURN

FEATURES

All **COD** cylinders have a threaded body, rod and base. This feature makes them extremely versatile. A complete range of Accessories to make the usage easier are available.

The guide and end of stroke nut are provided with a wiper to prevent the entrance of dirt and to improve the working life of the cylinder.



OPERATIONAL AREAS

These cylinders are used in industrial applications where a large number of cycles are required. They are used in blocking operations, in laboratories and for tests which need pushing and pulling forces. The nitride anti-corrosive treatment makes them suitable for works in harsh environments and in the open air.

ACCESSORIES (p. 47)

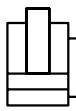
- **ZAE Clevis eyes** to be mounted on the rod or at the bottom.
- **ZAF Flange** to be mounted on the machined ends of the body.
- **ZAP Plate** to be mounted on the machined ends of the bod as alternative to the flange.
- **ZAA Nut** to block either the flange or the plate.



Given their unusual mounting, these cylinders are supplied without the female **K73F** half-couplers which can be ordered separately if required.



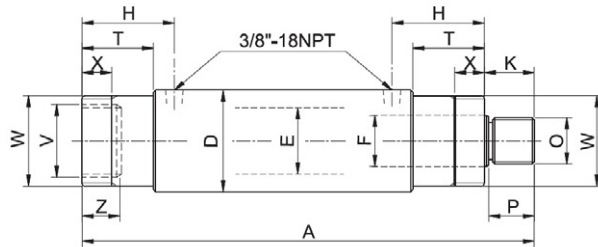
It's important to drop the pressure inside the cylinder before disconnecting the quick coupler to avoid problems if re-inserting or lowering the load. In case some pressure persists it is possible to use the apposite tool **KST38**.



| | |
|------------------------|-------------|
| ● FORCE | 5 - 25 t |
| ● STROKE | 30 - 260 mm |
| ● MAX WORKING PRESSURE | 700 bar |

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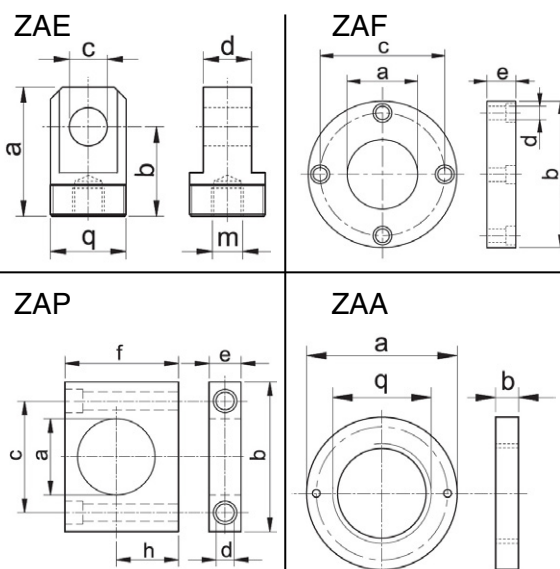


SELECTION CHART

| PUSHING FORCE | PULLING FORCE | STROKE | PUSHING EFFECTIVE AREA | PULLING EFFECTIVE AREA | PUSHING OIL VOLUME | PULLING OIL VOLUME | MODEL | CLOSED HEIGHT | | Ø PISTON | Ø ROD | COUPLERS HEIGHT | ROD PROJECTION | ROD PROJECTION | ROD THREAD LENGTH | COLLAR LENGTH | INTERNAL BASE THREAD | INTERNAL BASE THREAD LENGTH | COLLAR THREAD | COLLAR THREAD LENGTH | WEIGHT | |
|---------------|---------------|--------|------------------------|------------------------|--------------------|--------------------|-----------|---------------|----|----------|-------|-----------------|----------------|----------------|-------------------|---------------|----------------------|-----------------------------|---------------|----------------------|--------|----|
| | | | | | | | | A | D | | | | | | | | | | | | | |
| t* | t* | mm | cm ² | cm ² | cm ³ | cm ³ | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| 5 49,5 | 3 27,5 | 30 | 7.1 | 3.9 | 21 | 12 | COD5N30 | 185 | 50 | 30 | 20 | 45 | 22 | M18 x1,5 | 19 | 26 | M35 x1,5 | 13 | M42 x1,5 | 9 | 2.1 | |
| | | 80 | | | 57 | 31 | COD5N80 | 235 | | | | | | | | | | | | | 2.8 | |
| | | 160 | | | 113 | 63 | COD5N160 | 315 | | | | | | | | | | | | | 3.8 | |
| 10 97 | 6 62 | 30 | 13.9 | 8.9 | 42 | 27 | COD10N30 | 204 | 63 | 42 | 25 | 54 | 23 | M22 x1,5 | 20 | 35 | M42 x1,5 | 15 | M56 x2 | 15 | 3.6 | |
| | | 80 | | | 111 | 72 | COD10N80 | 254 | | | | | | | | | | | | | 4.5 | |
| | | 160 | | | 222 | 143 | COD10N160 | 334 | | | | | | | | | | | | | 5.8 | |
| 15 137 | 8 81 | 160 | 19.6 | 11.6 | 314 | 185 | COD15N160 | 376 | 80 | 50 | 32 | 71 | 31 | M30 x2 | 28 | 52 | M56 x2 | 27 | M70 x2 | 16 | 10.8 | |
| | | 260 | | | 511 | 301 | COD15N260 | 476 | | | | | | | | | | | | | 13.9 | |
| 25 232 | 12 121 | 160 | 33.1 | 17.3 | 531 | 276 | COD25N160 | 412 | 92 | 65 | 45 | 84 | 41 | M42 x1,5 | 38 | 65 | M70 x2 | 30 | M85 x2 | 20 | 15.5 | |
| | | 260 | | | 863 | 449 | COD25N260 | 512 | | | | | | | | | | | | | 19.4 | |

* Nominal value, see kN for the exact force.

ACCESSORIES ZAE - ZAF - ZAP - ZAA



| MODEL | a | b | c | d | e | f | h | m | q | kg |
|-------|-----|-----|------|------|----|-----|------|---------|---------|-----|
| ZAE5 | 62 | 46 | 16 | 16 | - | - | - | M18x1,5 | M35x1,5 | 0.3 |
| ZAE10 | 77 | 58 | 20 | 25 | - | - | - | M22x1,5 | M42x1,5 | 0.6 |
| ZAE15 | 98 | 73 | 25 | 32 | - | - | - | M30x2 | M56x2 | 1.2 |
| ZAE25 | 112 | 80 | 32 | 38 | - | - | - | M42x1,5 | M70x2 | 2 |
| ZAF5 | 42 | 98 | 78.6 | 11 | 17 | - | - | - | - | 0.8 |
| ZAF10 | 56 | 118 | 99 | 11 | 23 | - | - | - | - | 1.5 |
| ZAF15 | 70 | 145 | 116 | 17 | 35 | - | - | - | - | 3.4 |
| ZAF25 | 85 | 168 | 136 | 17 | 45 | - | - | - | - | 6 |
| ZAP5 | 42 | 80 | 58 | 10.5 | 17 | 60 | 32 | - | - | 0.4 |
| ZAP10 | 56 | 110 | 82.6 | 13 | 23 | 82 | 45 | - | - | 1.1 |
| ZAP15 | 70 | 135 | 100 | 21 | 35 | 100 | 52 | - | - | 2.6 |
| ZAP25 | 85 | 160 | 118 | 26 | 45 | 125 | 63.5 | - | - | 5.1 |
| ZAA5 | 58 | 9 | - | - | - | - | - | - | M42x1,5 | 0.1 |
| ZAA10 | 78 | 12 | - | - | - | - | - | - | M56x2 | 0.3 |
| ZAA15 | 95 | 16 | - | - | - | - | - | - | M70x2 | 0.6 |
| ZAA25 | 108 | 20 | - | - | - | - | - | - | M85x2 | 0.8 |