



HYDRAULIC SCREW-IN VALVES PRESSURE RELIEF-DIRECT ACTING MO-4L

70 l/min 25 MPa (250 bar)

1 DESCRIPTION

Suitable for standard cavity 7/8" 14 UNF 2-way direct acting relief valves
Differential area poppet type Fast response and low hysteresis in shutting
Maximum operating pressure: 250 bar Maximum flow rate: 70 l/min Ex-
ternal parts zinc plated Steel body Poppet in tempered and grinded steel
Anti vibration system Mass 0,13 kg



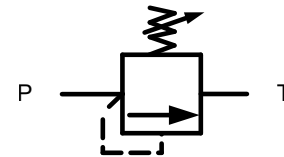
2 ORDERING CODE

| | | |
|-----|------|------|
| (1) | (2) | (3) |
| MO | - 4L | / 20 |

(1) MO: Direct acting relief valve

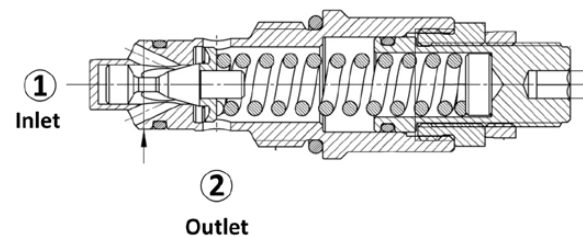
(2) 4: Nominal size (7/8" 14 UNF)

(3) 20: Spring type, setting 110 to 220 bar increase (bar/turn) 31.5

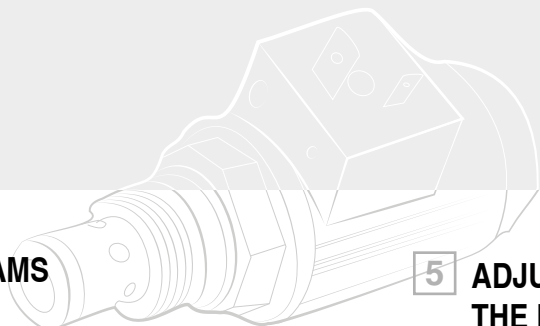


3 TECHNICAL DATA

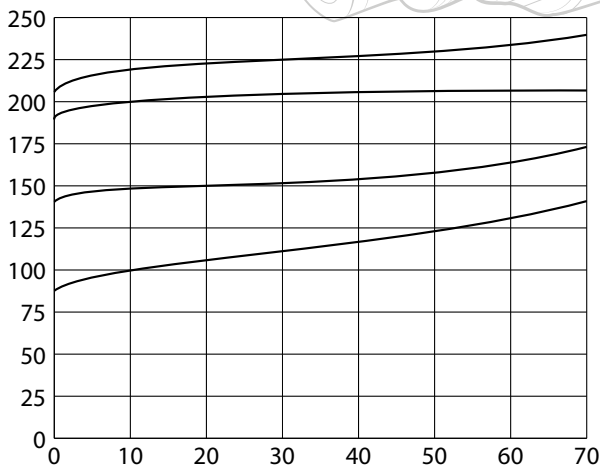
| | |
|----------------------------|----------|
| Max working pressure | 250 bar |
| Max flow | 70 l/min |
| External parts zinc plated | |



Normally the poppet (with damping spool) is kept closed by compression spring. When, on P port, pressure exceeds the settled value, poppet is pushed by axial hydraulic forces, overcomes the force of spring, shifts in its cylindrical seat and opens to the pressurized fluid annular passage to T, thus keeping the pressure level at the requested value.



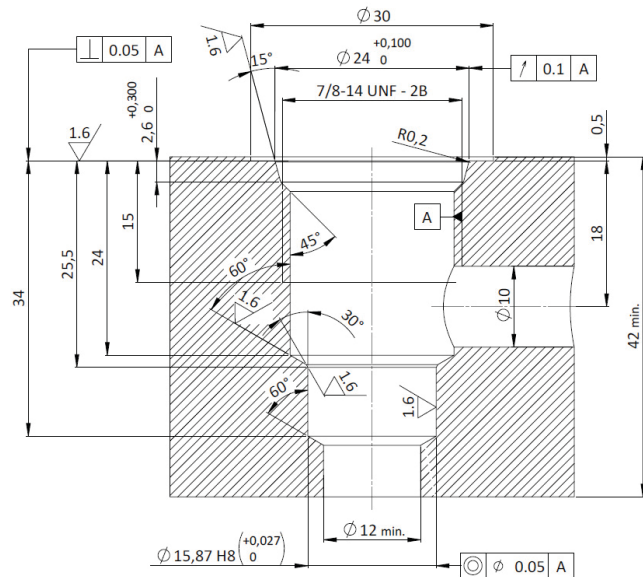
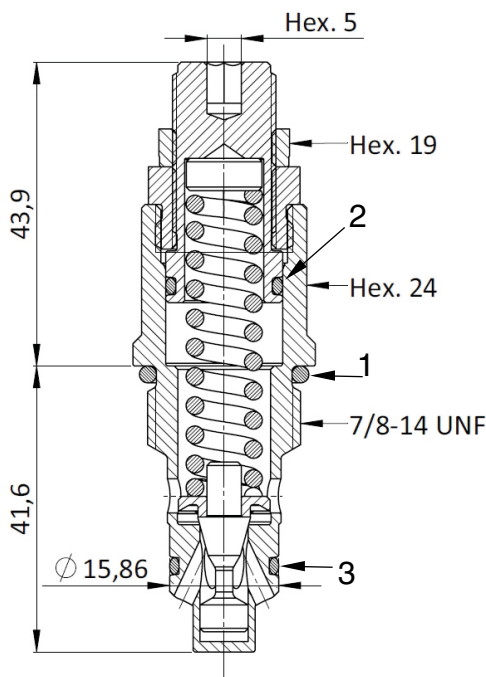
4 TYPICAL DIAGRAMS



5 ADJUSTMENT OF THE RELIEF PRESSURE

Relief pressure is reached when the axial hydraulic forces on poppet equal the force on spring; The value of the relief pressure can be therefore changed by changing the compression of the spring. To increase the relief pressure, turn clockwise the adjustment nut, after having unlocked the retaining nut.

6 INSTALLATION DIMENSIONS (mm)



SPARE PARTS

| Position | Description |
|----------|-------------------------------|
| 1 | O-Ring Ø 19,18 x 2,46 70Sh |
| 2 | O-Ring Ø 12,42 x 1,78 70Sh |
| 3 | Backup Ring Ø 13 x 15,8 x 0,7 |