


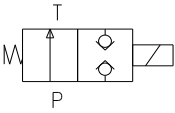
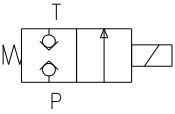
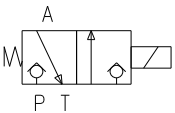
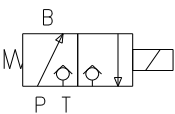
Directional Poppet Valves

FT 01 04 ... DL

Explosion-proofed solenoids  II 2 GD Ex d IIC T6

The solenoid valves FT 01 04 ... DL are directional poppet valves with solenoid operation. They start, stop and control the direction of a flow of oil. Poppet type valves ensure a leak free seal between inhibited channels. The valves are suitable for subplate mounting according to CETOP 03. The solenoids are built in a safety case which is explosion-proof according to IEC/EN 60079-0 and IEC/EN 60079-1 standards with classification Ex d IIC T6/T4 Gb.

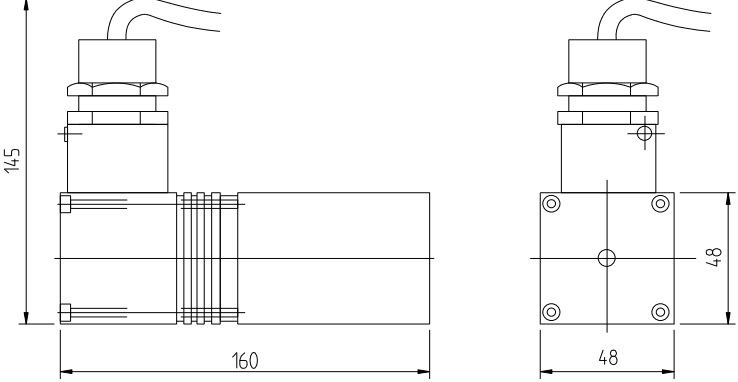
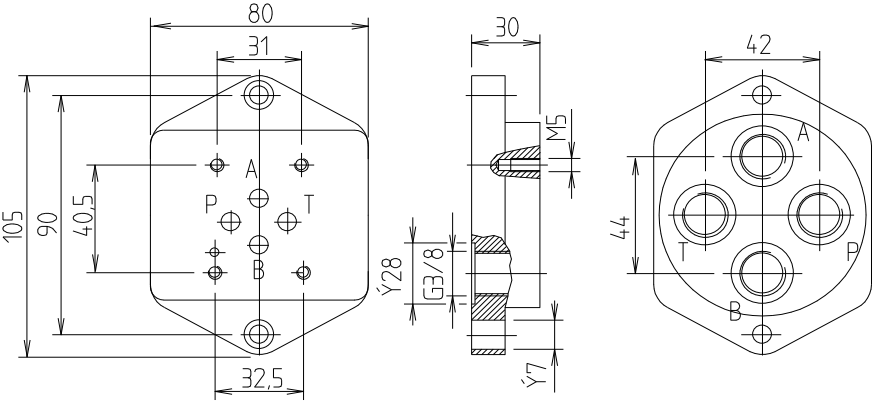
Mechanical protection is according to I.E.C. recommendation. Protection degree IP66.

Symbol		Max Flow Rate / Pressure	
2A		2/2 NO	Rest pos.: P connected to T Operated: P,T blocked leakage free
2C		2/2 NC	Rest pos.: P,T blocked leakage free Operated: P connected to T
3A		3/2 NC	Rest pos.: P blocked leakage free, A connected to T Operated: T blocked leakage free, P connected to A
3C		3/2 NO	Rest pos.: T blocked leakage free, P connected to B Operated: P blocked leakage free, B connected to T



- Explosion protection
Ex d II CT6
- Connection dimensions to
DIN 24340, form A6
- Hermetically sealed, in
closed flow direction
- No sticking, even when
under pressure for long
periods
- Manual override pin

Technical data:

<p>hydraulic data: hydraulic medium: Mineral oils to DIN 51524, class ISO 18/15</p> <p>Fluid temp. range: -20°C to 70°C</p> <p>viscosity range: 15 to 100 mm²/s at 40°C</p> <p>recommended filtration: ≤25 µm in feed line</p> <p>weight: 2,6 kg</p> <p>Max. flow: 20 l/min</p> <p>max. recommended pressure P,A,B: 250 bar; T: 50 bar</p>	
<p>Subplate (DIN 24340-A6 3/8")</p>	
<p>Electrical data (Solenoid): ATOS, type OA-...</p> <p>supply voltages DC: 24 V / 110 V % ±10% (i.e. 24 V: 21,6 ... 26,4 V)</p> <p>supply voltages AC 50/60 Hz: 24 V / 110 V / 230 V ±10%</p> <p>Max. nominal power: 8 W</p> <p>duty cycle: 100%</p> <p>ambient temperature: -40°C to 45°C (T6) -40°C to 70°C (T4)</p> <p>insulation class H IP66/IP67 with relevant cable gland</p> <p>explosion-proof: Ex II 2G Ex d IIC T6 (45°C) Ex d IIC T4 (70°C) Class I, Div.I, Groups C&D ATEX: CESI 02 ATEX 014 IECEX: CES 10.0010x UL 1203 / E366100</p> <p>cable gland: 20S16A2F1RA5</p>	
<p>Order code: Type: FT01 04 ... DL / xxVDC Tx</p> <p>This valves are optionally available with :</p> <ul style="list-style-type: none"> - latched manual override /HAND - sensor for the spool position /IND 	

Recommended level of purity according to ISO4406:1999 is Kl. 20/18/15. (i.e. per 1ml fluid max. 5.000 to 10.000 particles > 4µ, 1300 to 2500 particles > 6µ and 160 to 320 particles > 14µ diameter are allowed) or at pressures above 200 bar Kl. 19/17/14 (max. 2.500 to 5.000 particles > 4µ, 640 to 1300 particles > 6µ and 80 to 160 particles with > 14µ)