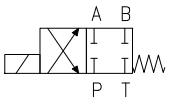
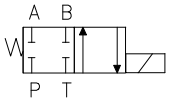
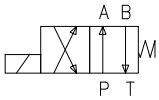
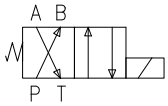
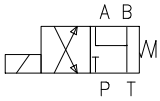
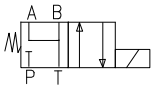
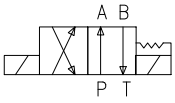
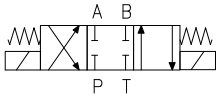
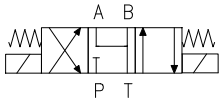
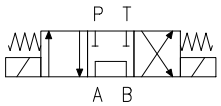
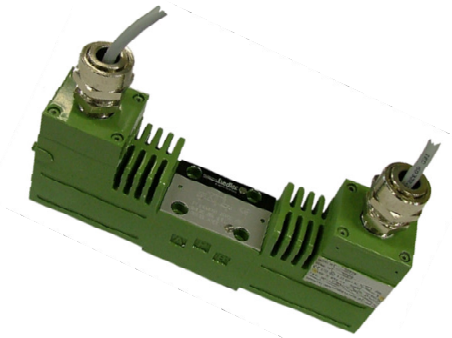
FT 01 04 ... Explosion-proof solenoids Ex d IIC T4/T6

Directional control valves type FT 01 04 … are solenoid operated spool valves. They start, stop and control the direction of an oil flow. They are 4 way valves with 2 or 3 positions, 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 T4/T6 Gb. Mechanical protection is according to I.E.C. recommendation. Protection degree IP66.

Symbol		Max Flow / Pressure	
0611		4/2 1 SOL	40 l/min 100 bar 25 l/min 210 bar 20 l/min 315 bar
0611A		4/2 1 SOL	
0631		4/2 1 SOL	
0631A		4/2 1 SOL	
0613		4/2 1 SOL	
0613A		4/2 1 SOL	
0751		4/2 2 SOL blocked	
0711		4/3 2 SOL	
0713		4/3 2 SOL	30 l/min 100 bar 15 l/min 210 bar 10 l/min 315 bar
0714		4/3 2 SOL	

(example picture)



- Directional control valve with ex-proof solenoids
- Ex d IIC T4 / T6
- Class I, Div. I, Groups C&D
- CETOP 03
- all seals are static
- manual override pin

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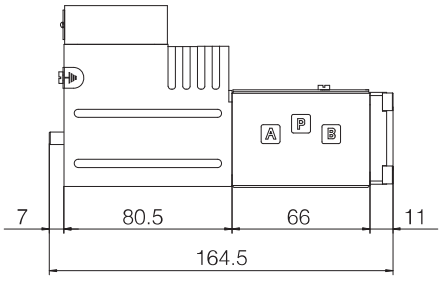
Technical data:

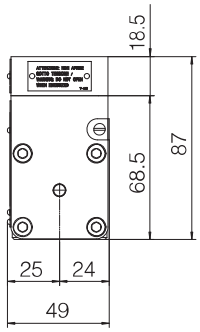
Type: 01 04 06...

hydraulic data:
hydraulic medium:
mineral oils to DIN 51524

fluid temperature range:
-25°C to 70°C

viscosity range:
15 to 100 mm²/s at 40°C



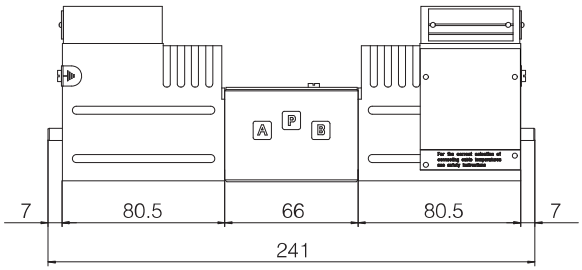


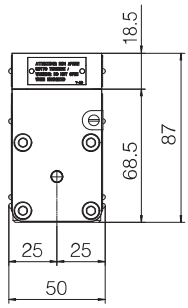
recommended filtration:
≤25 µm in feed line

Type: 01 04 07...

weight:
2,6 kg - 1 solenoid
4,2 kg - 2 solenoids

max. recommended pressure:
P,A,B: 315 bar; T: 40 bar





Electrical data (Solenoid):
ATOS, type OA-…

supply voltages DC:
24 V / 110 V % ±10%
(i.e. 24 V: 21.,6 ... 26,4 V)

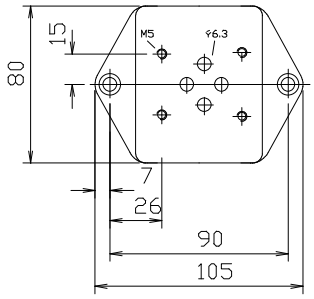
supply voltages AC 50/60 Hz:
24 V / 110 V / 230 V ±10%

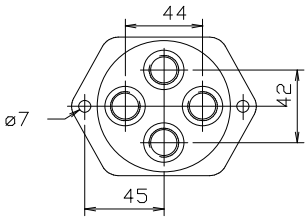
Max. nominal power: 8 W
duty cycle: 100%

ambient temperature:
-40°C to 45°C (T6)
-40°C to 70°C (T4)

insulation class H
IP66/IP67 with relevant cable gland
explosion-proof:
Ⓔx 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

Subplate (DIN 24340-A6 3/8“)





Order code: Type: FT01 04 ... / xxVXC Tx

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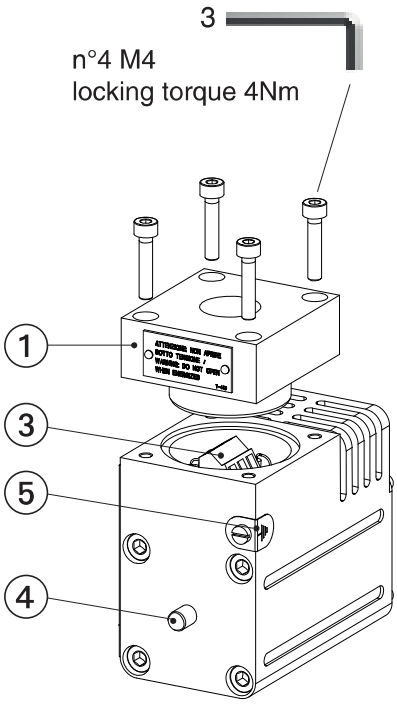
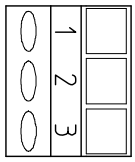
Ex proof solenoids wiring





1 = Coil
2 = GND
3 = Coil

3 poles terminal board suitable for wires cross sections up to 2,5 mm² (max. AWG14)

① cover with threaded connection for vertical cable gland fitting

③ terminal board for cables wiring
④ standard manual override
⑤ screw terminal for additional equipotential grounding

Max fluid contamination level

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 > 4 µ, 1300 to 2500 particles > 6 µ and 160 to 320 particles > 14 µ diameter are allowed) or at pressures above 200 bar Kl. 19/17/14 (max. 2.500 to 5.000 particles > 4 µ, 640 to 1300 particles
> 6 µ and 80 to 160 particles with > 14 µ)

Recommended viscosity

15 … 100 mm²/s (max. allowed range 2,8 … 500 mm²/s)

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