


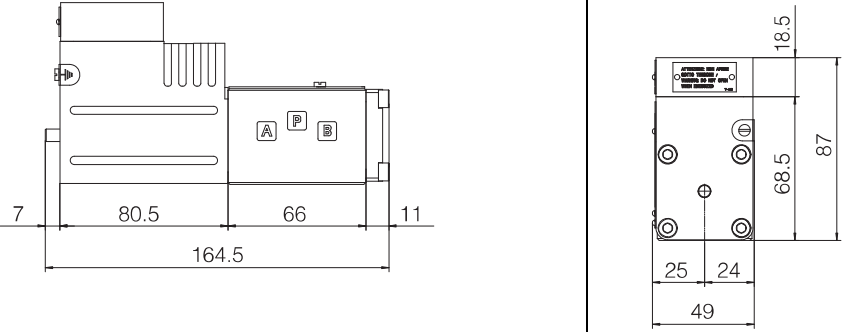
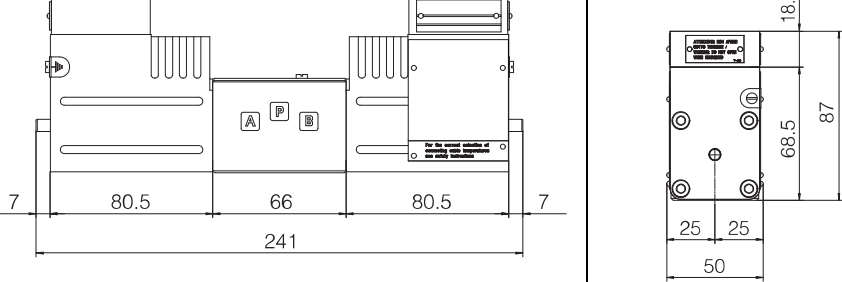

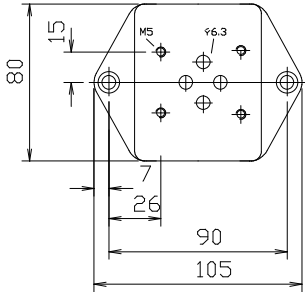
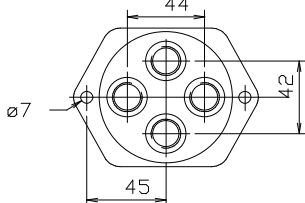
## FT 01 04 ... Explosion-proof solenoids Ex d IIC T4/T6

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		(example picture)
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		

- 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

<b>DIRECTIONAL CONTROL VALVES</b>	Datum:	17.03.21	
	Revisionsstand:	7	
Description			

<b>Technical data:</b>		<b>Type: 01 04 06...</b>	
<b>hydraulic data:</b> hydraulic medium: mineral oils to DIN 51524			
<b>fluid temperature range:</b> -20°C to 70°C			
<b>viscosity range:</b> 15 to 100 mm²/s at 40°C			
<b>recommended filtration:</b> ≤25 µm in feed line	<b>Type: 01 04 07...</b>		
<b>weight:</b> 2,6 kg - 1 solenoid 4,2 kg - 2 solenoids			
<b>max. recommended pressure:</b> P,A,B: 315 bar; T: 40 bar			
<b>Electrical data (Solenoid):</b> 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%			
<b>Max. nominal power: 8 W</b> <b>duty cycle: 100%</b>  <b>ambient temperature:</b> -40°C to 45°C (T6) -40°C to 70°C (T4)  <b>insulation class H</b> IP66/IP67 with relevant cable gland	<b>Subplate ( DIN 24340-A6 3/8" )</b>		
<b>explosion-proof:</b>  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			
<b>Order code:</b> Type: FT01 04 ... / xxVXC Tx			

# DIRECTIONAL CONTROL VALVES

Description

Datum: 17.03.21  
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## Ex proof solenoids wiring

1	2	3	<b>1</b> = Coil
1	2	3	<b>2</b> = GND
1	2	3	<b>3</b> = Coil

3 poles terminal board suitable for wires cross sections up to 2,5 mm<sup>2</sup> (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 mm<sup>2</sup>/s (max. allowed range 2,8 ... 500 mm<sup>2</sup>/s)