RPET3-06

Size 06 (D03) • Q_{max} 60 l/min (16 GPM) • p_{max} 350 bar (5100 PSI)



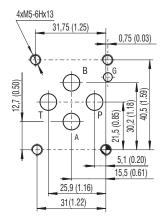
Technical Features

- Solenoid operated directional control valve, spool type, with subplate mounting surface acc. to ISO 4401, DIN 24340 (CETOP 03) standards
- > Robust design of coil with high resistance to mechanical damage
- > Encapsulation enclosure solenoid version (m)
- > High transmitted hydraulic power
- > Operating pressure up to 350 bar, pressure in T- channel up to 210 bar
- > Low pressure drop achieved by design optimization
- > Five chambers housing design with reduced hydraulic power dependence on fluid viscosity
- > Wide range of interchangeable spools, optional type of manual override
- > Easily interchangeable coil with adjustable connector position by rotating the coil
- > In the standard version, the valve is zinc-coated for 520 h protection acc. to ISO 9227

Functional description

Solenoid operated directional control valves in heavy-duty design have higher protection against mechanical damage, against dust, gas and moisture ingress into the coil. They are intended for operation in heavy working conditions.

ISO 4401-03-02-0-05



Ports P, A, B, T - max. Ø 7.5 mm (0.29 in)

Technical Data

Valve size			06 (D03)			
Max. flow	,	l/min (GPM)	60 (15.9)			
Max. operating pressure at ports P, A, B		bar (PSI)	350 (5080)			
Max. operating pressure at ports T		bar (PSI)	210 (3050)			
Pressure drop		bar (PSI)	see Δp-Q characteristics			
Fluid temperature range (NBR)		°C (°F)	-30 +80 (-22 +176)			
Max. switching frequency		1/h	15 000			
Switching time ON at $v=32 \text{ mm}^2/\text{s}$ (156 SUS)		ms	30 50			
Switching time OFF at v=32 mm ² /s (156 SUS)		ms	10 50			
	valve with 1 solenoid	lea (lbs)	2.52 (5.56)			
Weight	valve with 2 solenoids	kg (lbs)	3.97 (8.75)			
Technical	Data - Heavy-duty Solenoid					
Voltage type			DC			
Available voltages		V	24			
Available nominal power		W	18			
Supply voltage tolerance		%	DC: ±10			
Duty cycle			100 % ED			
Enclosure type of the Solenoid to EN 60529			IP 66/68*			
Ambient temperature range		°C (°F)	-30 +50 (-22 +122)			
* The specified IP rating applies only in the case of correctly connected connectors (male + female) with the corresponding IP rating.						
		Datasheet	Type			

	Datasheet	Туре			
General information	GI_0060	products and operating conditions			
Mounting interface	SMT_0019	Size 06			
Subplates	Subplates_0002				
Spare parts	SP_8010				
Solenoid Code	Ordering No.				
ET22-46/02400C32-B	42278700				

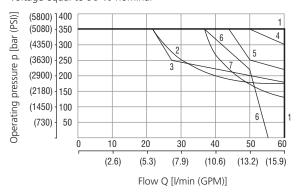
Danger – safety notice

- Always disconnect the coil from the power supply before any maintenance, assembly, disassembly or other work on it
- > For directional valves with two solenoids, one solenoid must be without supply voltage charge before the other solenoid can be charged
- The temperature of the valve coil surface can exceed 100 °C during the operation. There is a risk of burns
- > Damaged or malfunctioning coils (inclusive cable) must be immediately disconnected from the power supply



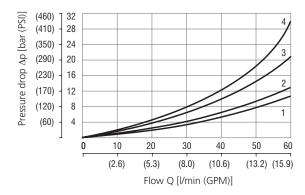
Operating limits (p-Q)

Operating limits for maximum hydraulic power at rated temperature and supply voltage equal to $90\,\%$ nominal



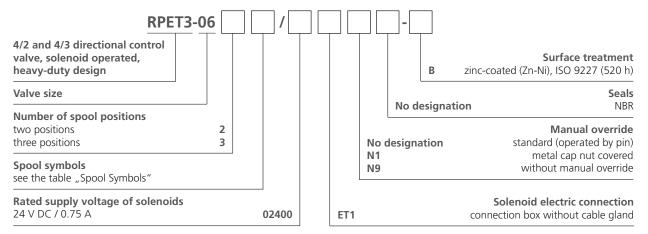
Z11, J15	1
C11	2
H11, X30, B71	3
R11	4
Y11, N11, V41	5
Y51	6
R30	7

Pressure drop related to flow rate (△p-Q)



	P→A	P→B	А→Т	$B \rightarrow T$	$P \rightarrow T$
Z11, J15, R11, R30, X30	1	1	2	2	
C11	3	3	3	4	2
H11	1	1	1	2	2
B71	1			1	
Y11	1	1	1	1	
Y51		2	2	2	
N11	1		2	2	
V41		1		2	

Ordering Code



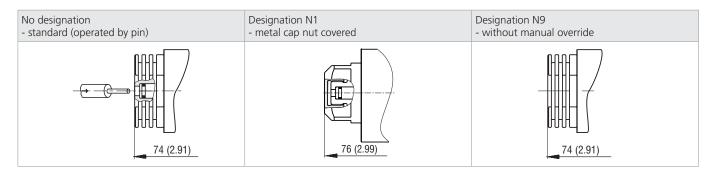
- The valves are delivered without cable glands.
- Mounting bolts M5x45 DIN 912-10.9 or studs must be ordered separately.
- Tightening torque is 8.9+1 Nm (6.56+0.7 lbf.ft).
- The orifice to the P-port can be ordered separately, see datasheet SP_8010.
- Besides the shown types, commonly used valve versions other special models are available. Contact our technical department for their identification, feasibility and operating limits.

Spool Symbols

Туре	Symbol	Interposition	Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11	a A B b b b		Y51	a A B		Z11	M B b	
C11	o A B b		R30	a A B		B71	M A B b b b	[+
H11	o A B b b b	XIHIHIHIN.	R11	a P T		N11	MA B b	
Y11	o A B b b b		X30	M A B		V41	A B T T D b	
							d A B b	

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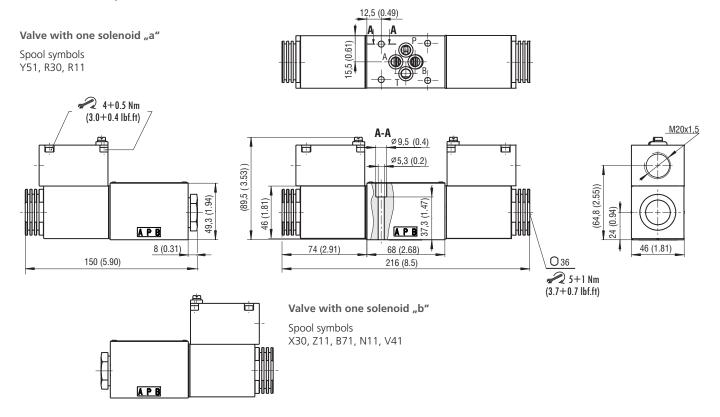
Installation

- Ambient operating temperature of the used connecting cable and cable gland shall be at least +105 °C (+221 °F). Use the cable shoe M3 -0.75 mm² for wire connecting.
- Fastening torque of screws in connecting plate is 0.4 Nm (0.30 lbf.ft). Fastening torque of screws for cover is 4 Nm (2.95 lbf.ft).
- The user shall to ensure free heat emission from the coil surface during operation. The coil must not be activated alone without connecting to the valve.
- We recommend connecting of the coil to the ground via the purpose-built ground clamp on the coil casing.

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RPET3-06**/*ET1-B, RPET3-06**/*ET1N9-B



RPET3-06**/*ET1N1-B

