# **RPET3-06**

Size 06 (D03) • Q<sub>max</sub> 60 l/min (16 GPM) • p<sub>max</sub> 350 bar (5100 PSI)



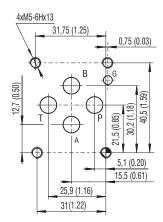
### **Technical Features**

- 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 in NSS 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. Ø7.5 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)		
1 31 1		bar (PSI)	210 (3050)		
1 31 1		bar (PSI)	see ∆p-Q characteristics		
Fluid temperature range (NBR)		°C (°F)	-30 +80 (-22 +176)		
Max. switching frequency		1/h	15 000		
		ms	30 50		
Switching time OFF at v=32 mm <sup>2</sup> /s (156 SUS)		ms	10 50		
147.1.1.1	valve with 1 solenoid	1 - 711>	2.52 (5.56)		
Weight	valve with 2 solenoids	kg (lbs)	3.97 (8.75)		
Technical D	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 t	type of the Solenoid to EN 60529		IP 65		
Ambient temperature range		°C (°F)	-30 +50 (-22 +122)		
		Data Sheet	Type		
General in	formation	GI_0060	products and operating conditio		
Mounting interface		SMT_0019	Size 06		
Subplates		Subplates_0002			
Spare parts		SP_8010			
Solenoid Code		Ordering No.			
ET22-46/02	2400B32-B	33426300			

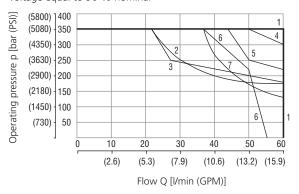
## Danger – safety notice

- › 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



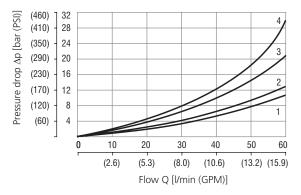
### Operating limits (p-Q)

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



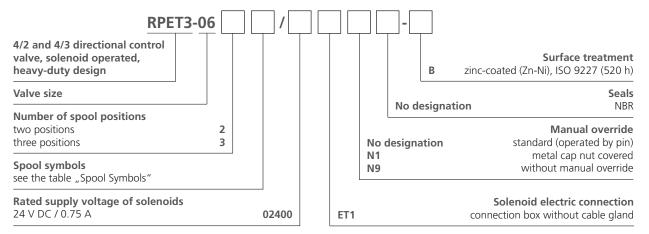
Z11, J15	1
C11	2
H11, X30, B71	3
R11	4
Y11, N11, V41	5
Y51	6
R30	7

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



	P→A	P→B	А→Т	В→Т	P→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 Nm (6.56 lbf.ft).
- The orifice to the P-port can be ordered separately, see data sheet 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.

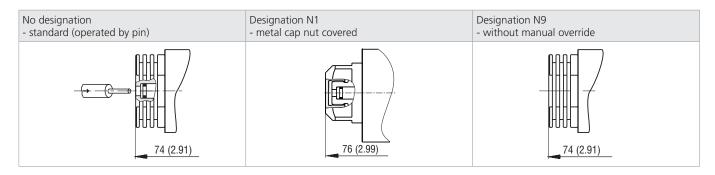
## **Spool Symbols**

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 PT		N11	MA B b	
Y11	o A B b b b		X30	M A B		V41	A B T T D b	
						J15	d A B b	

www.argo-hytos.com Page 2



# Manual Override in millimeters (inches)



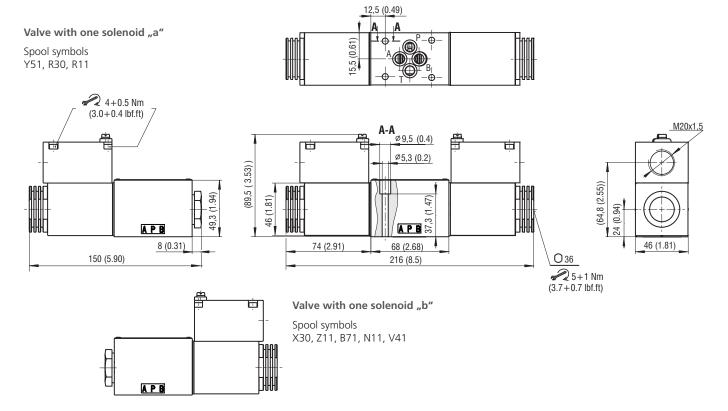
## Installation

- Ambient operating temperature of the used connecting cable and cable gland shall be at least +105 °C (+221 °F). Use the cable shoe  $M3 0.75 mm^2$  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.

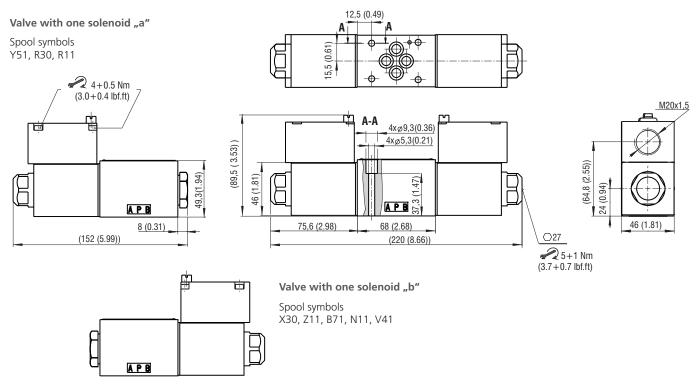
Page 3 www.argo-hytos.com



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



## RPET3-06\*\*/\*ET1N1-B



Mounting screws 8.9 Nm (7 lbf.ft) M5x45 DIN 912-10.9