RPH3-06

Size 06 (D03) • Q_{max} 80 l/min (21 GPM) • p_{max} 350 bar (5100 PSI)



Technical Features

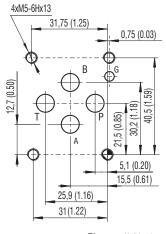
- Direct acting directional control valve, hydraulically or pneumatically operated with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- High transmitted hydraulic power up to 350 bar with optimized design to minimize pressure drop
- Five chamber housing design with reduced hydraulic power dependence on fluid viscosity
- Minimum pilot pressure 2 bar (29 PSI) for maximum hydraulic power
- Wide range of interchangeable spools available
- Connection for hydraulic operation M10 x 1, G1/8, G1/4
- In the standard version, the valve housing is phosphated and steel parts zinc-coated for 240 h salt spray protection acc. to ISO 9227
- Enhanced surface protection for mobile sector available (ISO 9227, 520 h salt spray)

Functional Description

These hydraulically or pneumatically operated directional control valves are used mainly to control start, stop and direction of fluid. The valves consist of a housing, a control spool with two centering springs, and the actuating section. The actuating section consists of the hydraulic or pneumatic actuation cylinder. The directional control valves are manufactured as two or three position valves (see table with functional symbols).

Symbol

ISO 4401-03-02-0-05



Ports P, A, B, T max ∅7.5 mm (0.29 in)

Technical Data

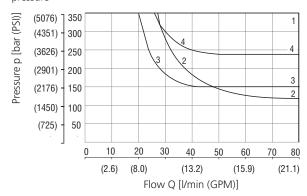
Valve size			06 (D03)		
Max. flow		l/min (GPM)	80 (21.1)		
Max. operating pressure P, A, B		bar (PSI)	350 (5080)		
Max. operating pressure at port T		bar (PSI)	160 (2320)		
Min. pilot pressure		bar (PSI)	2 (30)		
Max. pilot pressure		bar (PSI)	25 (360)		
Pilot volume		cm³ (cu.in)	6,2 (0.38)		
Fluid temperature range (NBR)		°C (°F)	-30 +100 (-22 +212)		
Weight	valve with 1 actuator	ka (lbs)	1.8 (3.96)		
	valve with 2 actuators	kg (lbs)	2.5 (5.50)		

	Datasheet	Type
General information	GI_0060	Products and operating conditions
Mounting interface	SMT_0019	Size 06
Spare parts	SP_8010	

Characteristics measured at $v = 32 \text{ mm}^2\text{/s}$ (156 SUS)

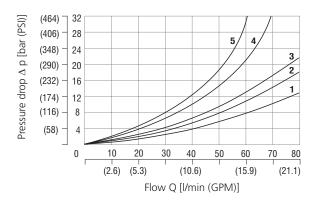
Operating limits

Operating limits for maximum hydraulic power with min. piloting pressure



Z11, P11, Y11, B11, R11, A51, P51, X11, J15, J75	1
C11, Y51	2
H11	3
L21	4

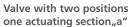
Pressure drop related to flow rate



	P-A	P-B	A-T	B-T	P-T		P-A	P-B	A-T	B-T	P-T
Z11, L21, B11, R11, X11, J15	2	2	3	3		Y11	2	2	2	2	
C11	4	4	4	5	3	A51, J75	2	2			
H11	2	2	2	2	3	P51		1	3		
P11	1	1	3	3		Y51		2	2		

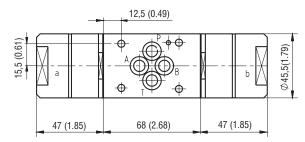
For operating limits under conditions and flow directions other than shown contact our technical support. Admissible operating limits may be considerably lower with only one direction of flow (A or B plugged, or without flow.)

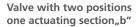




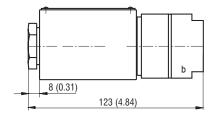
Ø 9,5 (0.37) Ø 5,3 (0.21) 123 (4.84)

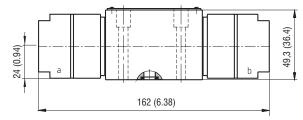
Valve with three positions two actuating sections





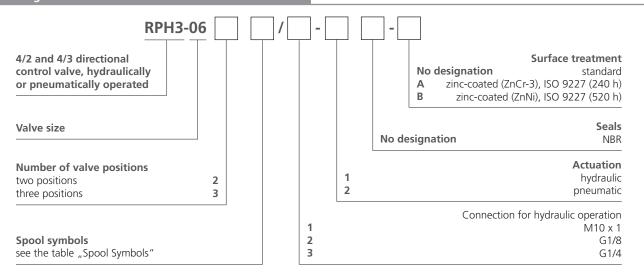
Thread size	Ø D1		
M10 x 1, G1/8	15 (0.59)		
G1/4	20 (0.79)		





Spool Symb	ools				
Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11	a A B A B A A B A A A A A A A A A A A A		R11	□ A B M	
C11	∘ M A B L L L L L L L L L L L L L L L L L L		A51		
H11	a A B B B B B B B B B B B B B B B B B B	[XIHIHIHI]	P51	• P T	XZE
P11	a A B		Y51	∘ ▶ A B	
Y11	A B		X11	M A B	
L21	∘ A B A B A B A B A B A B A B A B A B A		J15	• P T	
B11	. A B T T T T T T T T T T T T T T T T T T		J75	a T T T b	

Ordering Code



Mounting bolts M5 x 45 DIN 912-10.9 or studs must be orderer separately see Spare Parts data sheet HA 8010. Tightening torque is 8.9 Nm (6.56 lbf.ft). Besides the commonly used valve versions shown other special models are available. Contact our technical support for their identification, feasibility and operating limits.

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