

06 (D03)

80 (21.1)

350 (5080)

160 (2320)

2 (30)

25 (360)

6,2 (0.38)

-30 ... +100 (-22 ... +212)

-20 ... +120 (-4 ... +248)

1.8 (3.96)

2.5 (5.50)

Type

Products and operating conditions

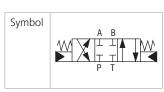
Size 06

# 4/2 and 4/3 Directional Control Valve, Hydraulically or Pneumatically Operated

# **RPH3-06**

Size 06 (D03) • Q<sub>max</sub> 80 l/min (21 GPM) • p<sub>max</sub> 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**

Max. operating pressure P, A, B

Fluid temperature range (NBR)

Fluid temperature range (FPM)

valve with 1 actuator

valve with 2 actuators

Max. operating pressure at port T

**Technical Data** 

Min. pilot pressure

Max. pilot pressure

General information

Mounting interface

Spare parts

Pilot volume

Mass

Valve size

Max. flow

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).

l/min (GPM)

bar (PSI)

bar (PSI)

bar (PSI)

bar (PSI)

°C (°F)

°C (°F)

kg (lbs)

Datasheet

SMT\_0019

SP\_8010

GI 0060

cm<sup>3</sup> (cu.in)

# 4xM5-6Hx13 31(1.22)

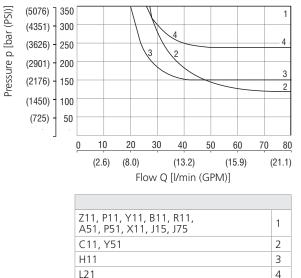
ISO 4401-03-02-0-05

Ports P. A. B. T max Ø7.5 mm (0.29 in)

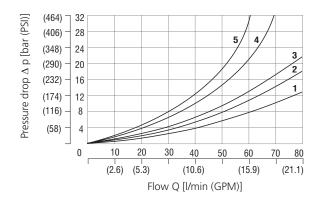
**Characteristics** measured at  $v = 32 \text{ mm}^2/\text{s}$  (156 SUS)

### **Operating limits**

Operating limits for maximum hydraulic power with min. piloting pressure



Pressure drop related to flow rate



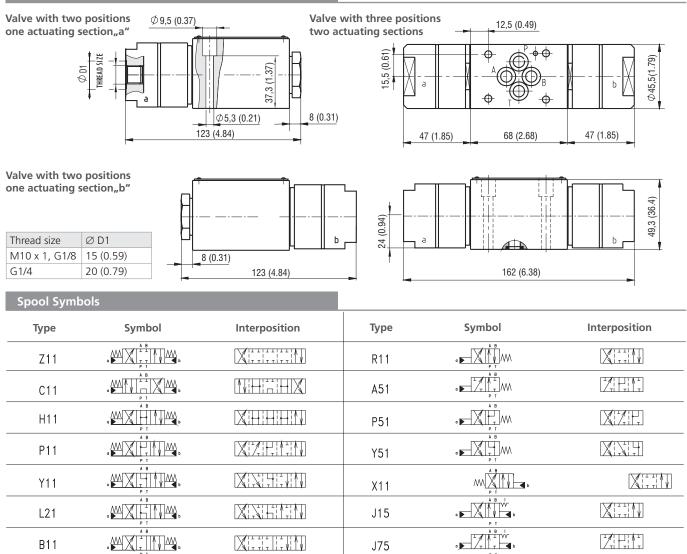
		P-A	P-B	A-T	B-T	P-T		P-A	P-B	A-T	B-T	P-T
1	Z11, L21, B11, R11, X11, J15	2	2	3	3		Y11	2	2	2	2	
2	C11	4	4	4	5	3	A51, J75	2	2			
3	H11	2	2	2	2	3	P51		1	3		
4	P11	1	1	3	3		Y51		2	2		

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.)

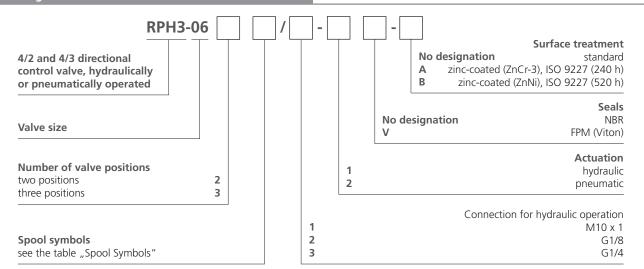
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12,7 (0.50)	~			5			<u>.</u>		┢
2,7	(-	⊢)·	(-	)		∞	E		
- I	Т			P	21,5 (0.85)	30,2 (1.18)	40,5 (1.59)		
	_		ナ		0	0,2			
			Α		2.5				
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1					5,	1 (0.	20)		
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		-			-10	,0 (0	.017	-	
		25,9	9 (1.16)						
		21/	1 22)						H



## **Dimension** in millimeters (inches)



### **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.