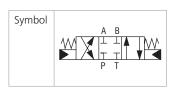
# **RPH2-06**

Size 06 (D03) • Q<sub>max</sub> 80 l/min (21 GPM) • p<sub>max</sub> 350 bar (5100 PSI)





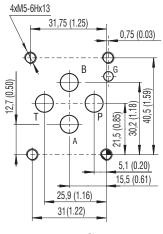
# **Technical Features**

- Direct acting directional control valve, hydraulically 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
- Actuating section can be rotated in 90° increments for flexible installation
- Wide range of interchangeable spools available
- Connection for hydraulic operation M10 x 1, G1/8 and 7/16-20 UNF-2B (SAE-4)
- In the standard version, the valve housing is phosphated for basic surface corrosion protection and as preparation for painting. Steel parts are zinc-coated for 240 h salt spray protection acc. to ISO 9227
- Enhanced surface protection for mobile sector available for the valve housing and steel parts (ISO 9227, 520 h salt spray)

## **Functional Description**

These hydraulically 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 actuation cylinder. The directional control valves are manufactured as two or three position valves (see table with functional symbols).

#### ISO 4401-03-02-0-05



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

### **Technical Data**

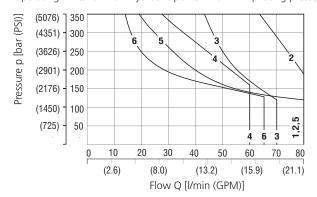
Valve size			06 (D03)			
Max. flow		l/min (GPM)	80 (21.1)			
Max. opera	ating pressure P, A, B	bar (PSI)	350 (5080)			
Max. opera	ating pressure at port T	bar (PSI)	130 (1890)			
Min. pilot pressure at max.power of the valve		bar (PSI)	30 (440) + p(T)*			
Max. pilot	pressure	bar (PSI)	160 (2320)			
Pilot volume		cm³ (cu.in)	0.5 (0.03)			
Fluid temperature range (NBR)		°C (°F)	-30 +100 (-22 +212)			
Fluid temperature range (FPM)		°C (°F)	-20 +120 (-4 +248)			
Weight	valve with 1 actuator	kg (lbs)	1.6 (3.53)			
vveignt	valve with 2 actuators	kg (ibs)	2.7 (5.70)			
		Datasheet	Туре			
General information		GI_0060	Products and operating conditions			
Mounting interface		SMT_0019	Size 06			
Spare part	S	SP_8010				

<sup>\*</sup>The operating pressure, needed for spool moving depends on the hydraulic power of the valve (on the flow and the system pressure), spool type and the pressure in the T-channel. The operating pressure can take value from a minimum value of several bar up to permitted maximum value of 160 bar. Increasing pressure in the T-channel increases the needed oper. pressure in ratio 1:1. To reach surly the basic position of the spool, the actuating section should be relieved without pressure.

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

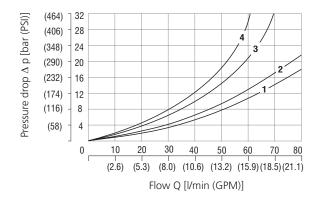
#### **Operating limits**

Operating limits for max. hydraulic power with min. piloting pressure



H11	1	J15	3	C51	1	A51	5
H51	1	R11	4	Z11	2	Y11	6
C11	1	X11	4	Z51	2	Y51	6

#### Pressure drop related to flow rate

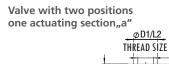


	P-A	P-B	A-T	В-Т	P-T		P-A	P-B	A-T	B-T	P-T
Z11, R11, X11, J15	1	1	2	2		C51	3			4	2
C11	3	3	3	4	2	Z51		1	2		
H11, H51	1	1	1	1	2	A51	1	1			
Y11	1	1	1	1		Y51		1	1		

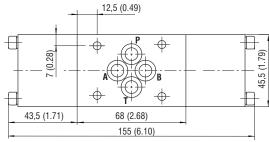
For operating limits under conditions and flow directions other than shown contact our technical support. Admissible operating limits may be considerably lower with only one direction of flow (A or B plugged, or without flow.)

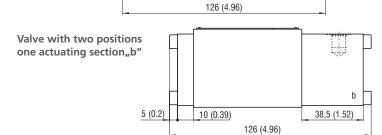


the counterpart



# Valve with three positions two actuating sections





38,5 (1.52)

Ø 9,5 (0.37)

| ' |<sub>φ</sub>5,3 (0.21)

37,3 (1.47)

10 (0.39)

5 (0.2)

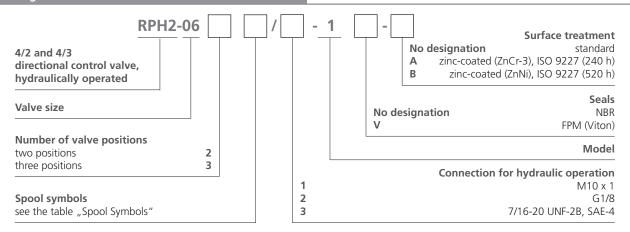
Thread size	Ø D1	L1	L2
M10 x 1, G1/8	15.5 (0.61)	1 (0.04)	8 (0.32)
7/16-20 UNF-2B, SAE-4	21 (0.83)	0.8 (0.03)	14 (0.55)

0,01/100 mm 0,8/(Rmax. 6,3) Required surface quality of

**Spool Symbols** 

Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11	a		C51	» P T	
C11	A B A B A B A B A B A B A B A B A B A B		H51	· A A A A A A A A A A A A A A A A A A A	XIHIH)
H11		(XIHIHIHIN)	Y51	∘ A B M	
Y11		XIZHITIN	Y11	A B A B A A B A A B A A B A B A B A B A	
L21			H11	A B A B A A B A A A A A A A A A A A A A	
R11	a PT		X11	M A B	
A51	a PT	ZEE	Z11	A B A B A B A B A B A B A B A B A B A B	
Z51	a A B MM	XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	J15	. A B V	

# **Ordering Code**



Mounting bolts M5  $\times$  45 DIN 912-10.9 or studs must be orderer separately see Spare Parts datasheet 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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