

06 (D03)

80 (21.1)

350 (5080)

130 (1890)

30 (440) + p(T)*

160 (2320)

0.5 (0.03)

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

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

1.6 (3.53)

2.7 (5.70)

Туре

Products and operating conditions

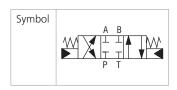
Size 06

4/2 and 4/3 Directional Control Valve, Hydraulically Operated

RPH2-06

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





Technical Features

- Direct acting directional control valve, hydraulically 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 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)

Max. operating pressure at port T

Min. pilot pressure at max.power of the valve

valve with 1 actuator

valve with 2 actuators

Technical Data

Max. pilot pressure

General information

Mounting interface

Spare parts

Pilot volume

Mass

Valve size

Max. flow

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).

l/min (GPM)

bar (PSI)

bar (PSI)

bar (PSI)

bar (PSI)

°C (°F)

°C (°F)

kg (lbs)

Datasheet

SMT_0019

SP_8010

GI 0060

cm³ (cu.in)

B B B B B C B C C C C C C C C C C C C C	G (975) (0.03) G (970) 5(12 (980) 5(12 (980) 5(12 (980) 5(12 (980) 5(12 (980) 5(12 (980) 5(12 (980) 5(12) (980) 5(12) (100) (1
25,9 (1.16) 31(1.22)	-
	B B B C C C C C C C C C C C C C C C C C

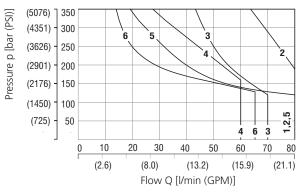
Ports P, A, B, T max Ø7.5 mm (0.29 in)

*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.

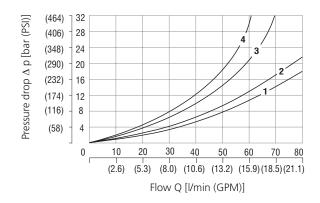
Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Operating limits

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



Pressure drop	related	to flow	rate
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									r-A	P-D	A-I	D-I	P-1		r-A	r-D	A-I	D-I	P-1
H11	1	J15	3	C51	1	A51	5	Z11, R11, X11, J15	1	1	2	2		C51	3			4	2
H51	1	D11	4	711	2	Y11	6	C11	3	3	3	4	2	Z51		1	2		
пэт			4	211	Z		0	H11, H51	1	1	1	1	2	A51	1	1			
C11	1	X11	4	Z51	2	Y51	6	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.)

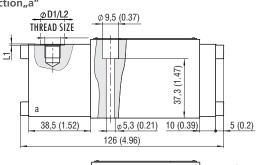
ISO 4401-03-02-0-05

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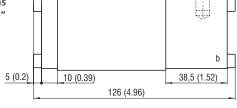


Dimension in millimeters (inches)

Valve with two positions one actuating section,,a"



Valve with two positions one actuating section,,b"



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)

Valve with three positions two actuating sections

 \Box

12,5 (0.49) \square Ð - \oplus 7 (0.28) 45,5 (1.79) \oplus ϕ P \square 43,5 (1.71) 68 (2.68) 155 (6.10) Ð \square Ļ 45 (1.77) 49,3 (1.94)

Spool Sym	nbols				
Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11			C51		
C11			H51		
H11			Y51		
Y11			¥11		
L21			H11		
R11			X11		
A51			Z11		
Z51			J15		

Ordering Code

RP	H2-06	-	1 -	Sur	face treatment
4/2 and 4/3 directional control valve, hydraulically operated				No designationAzinc-coated (ZnCr-3), ISBzinc-coated (ZnNi), IS	. ,
Valve size			No d V	lesignation	Seals NBR FPM (Viton)
Number of valve positions two positions	2				Model
three positions	3	1		Connection for hydra	aulic operation M10 x 1
Spool symbols see the table "Spool Symbols"		2 3		7/16-20	G1/8 UNF-2B, SAE-4

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.