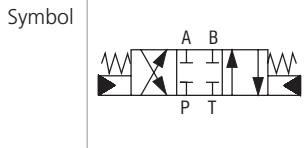


4/2 and 4/3 Directional Control Valve, Hydraulically or Pneumatically Operated

RPH3-06

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



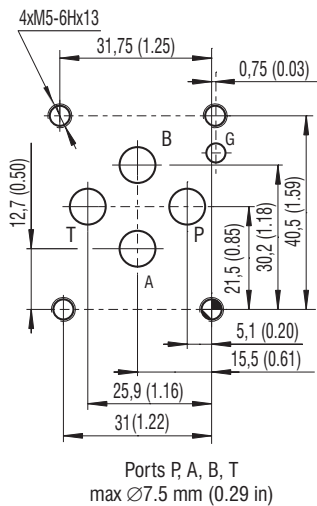
Technical Features

- › 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 M10x1, 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).

ISO 4401-03-02-0-05



Technical Data

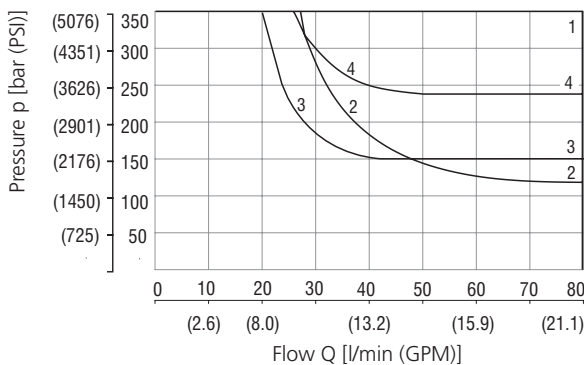
Valve size		06 (D03)
Max. flow	l/min (GPM)	80 (21.1)
Max. operating pressure P, A, B	bar (PSI)	350 (5080)
Max. operating pressure at port T	bar (PSI)	160 (2320)
Min. pilot pressure	bar (PSI)	2 (30)
Max. pilot pressure	bar (PSI)	25 (360)
Pilot volume	cm ³ (cu.in)	6,2 (0.38)
Fluid temperature range (NBR)	°C (°F)	-30 ... +100 (-22 ... +212)
Fluid temperature range (FPM)	°C (°F)	-20 ... +120 (-4 ... +248)
Mass	valve with 1 actuator	1.8 (3.96)
	valve with 2 actuators	2.5 (5.50)

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

Characteristics measured at v = 32 mm²/s (156 SUS)

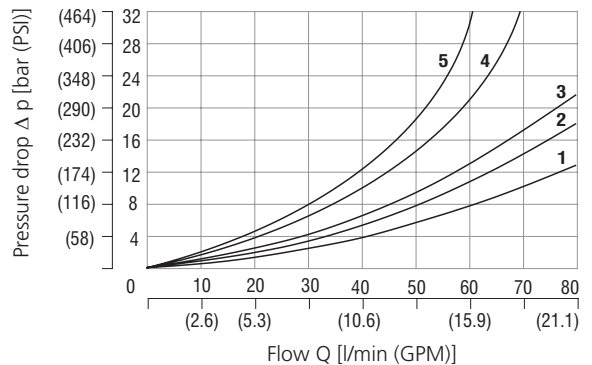
Operating limits

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

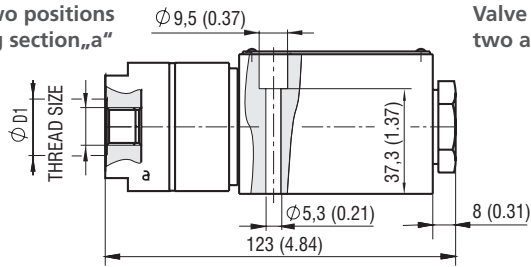


	P-A	P-B	A-T	B-T	P-T		P-A	P-B	A-T	B-T	P-T
Z11, L21, B11, R11, X11, J15	2	2	3	3		Y11	2	2	2	2	
C11	4	4	4	5	3	A51, J75	2	2			
H11	2	2	2	2	3	P51		1	3		
P11	1	1	3	3		Y51		2	2		

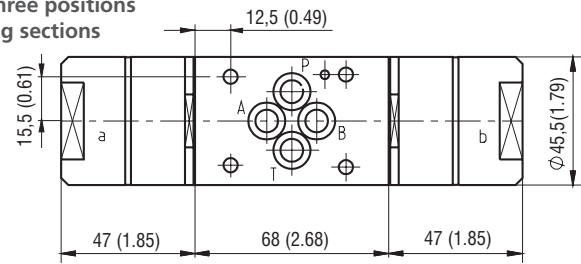
For operating limits under conditions and flow directions other than shown contact our technical support. Admissible operating limits may be considerably lower with only one direction of flow (A or B plugged, or without flow.)

Dimension in millimeters (inches)

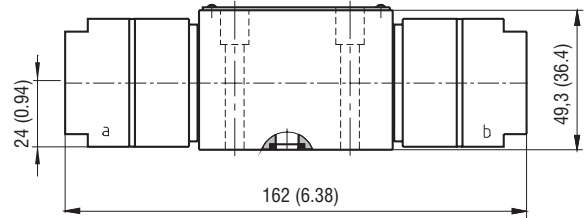
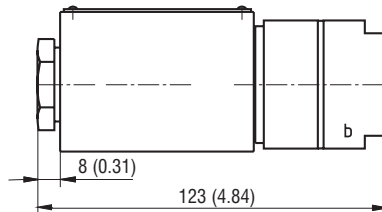
Valve with two positions one actuating section, „a“



Valve with three positions two actuating sections



Valve with two positions one actuating section, „b“



Thread size	Ø D1
M10x1, G1/8	15 (0.59)
G1/4	20 (0.79)

Spool Symbols

Type	Symbol	Interposition	Type	Symbol	Interposition
Z11			R11		
C11			A51		
H11			P51		
P11			Y51		
Y11			X11		
L21			J15		
B11			J75		

Ordering Code

RPH3-06 / - -

4/2 and 4/3 directional control valve, hydraulically or pneumatically operated

Valve size

Number of valve positions
two positions **2**
three positions **3**

Spool symbols
see the table „Spool Symbols“

Surface treatment
No designation standard
A zinc-coated (ZnCr-3), ISO 9227 (240 h)
B zinc-coated (ZnNi), ISO 9227 (520 h)

Seals
No designation
V NBR
FPM (Viton)

Actuation
1 hydraulic
2 pneumatic

Connection for hydraulic operation
1 M10x1
2 G1/8
3 G1/4

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 shown, commonly used valve versions other special models are available. Contact our technical support for their identification, feasibility and operating limits.