

Hydraulic Operated Directional Control Valves

RPH3-06

HA 4006 04/2011

Replaces HA 4006 12/2007

Size 06 (D 03) • 350 bar(5076 PSI) • 80 L/min(21 GPM)





- Installation dimensions to DIN 24 340 / ISO 4401 / CETOP RP121-H
- ☐ Connecting threads M10x1, G1/8



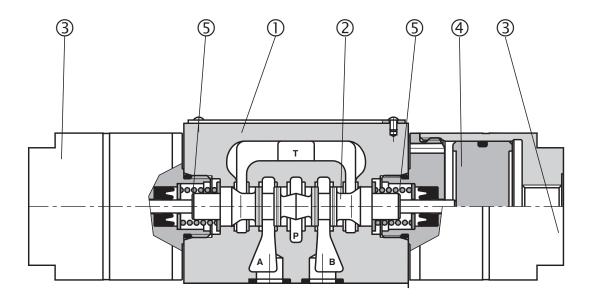
Functional Description

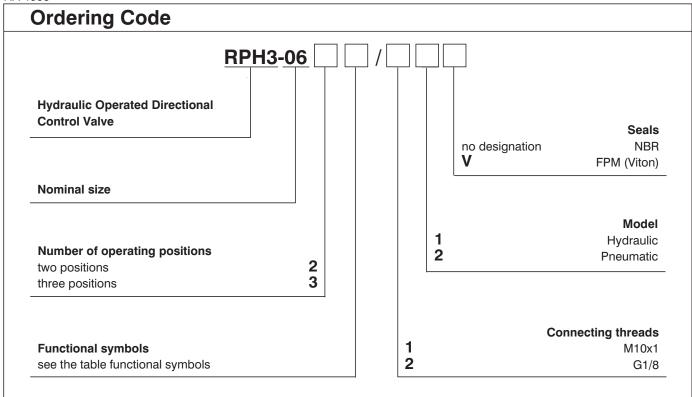
The directional control valves are of modular design and comprise a housing (1) with a cylidrical spool (2) and one or two operating elements (3) consisting of hydraulic pistons (4) and return spring (5).

Three-position directional valves are fitted with two hydraulic operating elements and two centering

springs. Two-position directional valves have only one hydraulic operating element and one springs.

The basic surface treatment of the valve housing is phosphate.





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Valve size	mm(US)	06
Maximum flow (according to pressure and functional symbols)	L/min (GPM)	see p-Q characteristics
Maximum operating pressure at ports P, A, B	bar (PSI)	350 (5076)
Maximum operating pressure at port T	bar (PSI)	160 (2321)
Minimum pilot pressure	bar (PSI)	2 (29)
Maximum pilot pressure	bar (PSI)	25 (362.6)
Pilot volume	cm ³ (cu.in).	6,2 (0,378)
Pressure drop	bar (PSI)	see ∆p-Q characteristics
Hydraulic fluid		Hydraulic oils of power classes (HL, HLP) to DIN 51524
Fluid temperature range for standard sealing (NBR)	°C (°F)	-30 +100 (-22 +21)
Fluid temperature range for Viton seals (FPM)	°C (°F)	-20 +120 (-4 +248)
Viscosity range	mm ² /s (SUS)	20 400 (98 1840)
Maximum degree of fluid contamination		Class 21/18/15 to ISO 4406
Service life	cycles	10 ⁷
Weight valve with 1 actuator valve with 2 actuators	kg (lbs)	1,8 (3.96) 2,5 (5.50)
Mounting position		unrestricted

Spare Parts

Technical Data

Туре	Dimansion	Ordering number		
Standard NBR	9,25 x 1,68 NBR70 (4 pcs.)	17 x 1,8 (2 pcs.)	15845200	
Viton	9,25 x 1,78 (4 pcs.)	17,17 x 1,78 (2 pcs.)	15845400	
Mounting bolts				

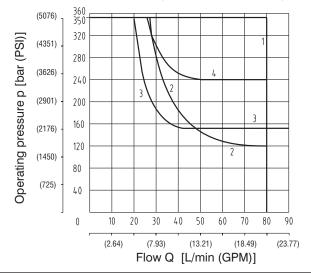
	mounting bons	ig boils				
Dimensions, number		Tightening torque	Ordering number			
	M5 x 45 DIN 912-10.9 (4 pcs.)	8.9 Nm (6.6 ft-lbf)	15845100			

Functional Symbols					
Three position directional valves RPH3-063			Two position directional valves RPH3-062		
Туре	Symbol	Crossover	Type	Symbol	Crossover
Z11	a A B T T T D D		R11	a A B	
C11	o A B		A51	a A B T T T T	
H11	a A B	$X_{i+i+i+i+i}$	P51	σ A B T	
P11	a A B		Y51	a A B	
Y11	a B T T b b		X11	A B b	
L21	a B b b b b b b b b b b b b b b b b b b		J15	a P T	
B11	A B		J75	d AB W	

p-Q Characteristics

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

Operating limits for maximum hydraulic power transferred by the directional valve. Measured by steering pressure 2 bar (29 PSI). For respective spool type - see Functional Symbols.

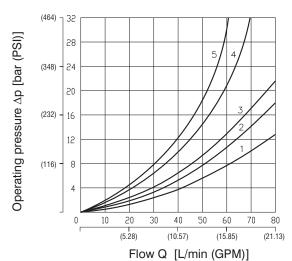


Z11	1
C11	2
H11	3
P11	1
Y11	1
L21	4
B11	1
R11	1
A51	1
P51	1
Y51	2
X11	1
J15	1
J75	1

∆p-Q Characteristics

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

Pressure drop Δp related to flow rate.

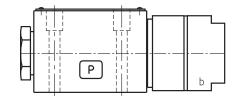


	P-A	P-B	A-T	В-Т	P-T
Z11	2	2	3	3	
C11	4	4	4	5	3
H11	2	2	2	2	3
P11	1	1	3	3	
Y11	2	2	2	2	
L21	2	2	3	3	
B11	2	2	3	3	
R11	2	2	3	3	
A51	2	2			
P51		1	3		
Y51		2	2		
X11	2	2	3	3	
J15	2	2	3	3	
J75	2	2			

Valve Dimensions Dimensions in millimeters (inches) 40,5(1.59) 33(1.30) 12.5(0.49) 30,2(1.19) 5 21,5(0.85) 5,1(0.20 12,7(0.50) 45.5(1.79) 25,9 (1.02) 3,5 (0.14) 3,5 (0.14) 47 (1.85) 68 (2.68) 47(1.85) 162(6.38) Ø9.5 (0.37) ϕ 5,3(2.09) 3 49,3(1,93 41(1.61) 36 (1.42) Ø45(1.77) 37,3(1,47) Ρ 1(0.04) (90.0) 4 Ø8(0.31) Ø12,4(0.49) 2 P



- 2 Operating element 2
- 3 Name plate
- 4 Square ring 9.25 x 1.68 (4 pcs.) supplied with each valve
- 5 4 mounting holes



8(0.31)

123 (4.84)

Caution!

- For applications outside the given parameters, please consult us.
- Other for spool symbols on request.
- The packing foil is recyclable.
- The protective plate can be returned to manufacturer.
- Mounting screws M5 x 45 DIN 912-10.9 or bolts must be ordered separately. The screws tightening torque is 8.9 Nm (6.6 ft-lbs).
- The technical information regarding the product presented in this catalogue is for descriptive purposes only. It should not be construed in any case as a guaranteed representation of the product properties in the sense of the law.

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Required surface finish of

interface