

Roller cam-operated Directional Control Valves

RPK1-06

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

12/2007 Replaces HA 4038 12/2006

HA 4038

- □ 4/2 -way spool type directional control valves
- **Roller cam-operated**
- Actuating section can be rotated 90°
- Installation dimensions to ISO 4401 / CETOP RP121-H / DIN 24 340

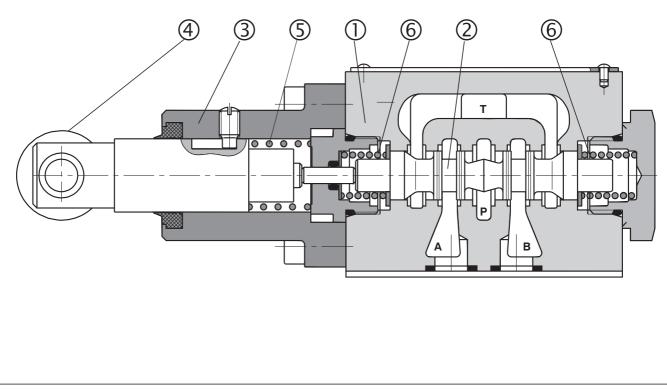




Functional Description

The Roller cam-operated directional control valves are used mainly to control start, stop and direction of fluid. The valves consist of housing (1) with control spool (2) with two centering springs (6) and the actuating section (3). The actuating section consists either of the roller-pin (4) and of one return spring (5). The directional control valves are being manufactured as two-position valves (see table with functional symbols).

The valve housing (1) is phosphate coated.



HA 4038

Ordering Code RPK1-06 Directional Control Valves Roller cam-operated NBR Valve size FPM (Viton) Valve size Spool symbols two positions see the table spool symbols

Technical Data

Valve size	US (mm)	06 (D 03)	
Maximum flow	l/min (GPM)	80 (21)	
Maximum operating pressure at ports P, A, B	bar (PSI)	350 (5076)	
Maximum operating pressure at port T	bar (PSI)	20 (290)	
Pressure drop	bar (PSI)	see ∆p -Q characteristics	
Hydraulic fluid		Hydraulic oils of power classes (HL, HLP) to DIN 51524	
Fluid temperature range - NBR	°C (°F)	-30 +100 (-22 +212)	
Fluid temperature range - Viton	°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 (1999).	
Service life	cycles	10 ⁶	
Weight	kg (lbs)	1,6 (3.53)	
Mounting position		any	

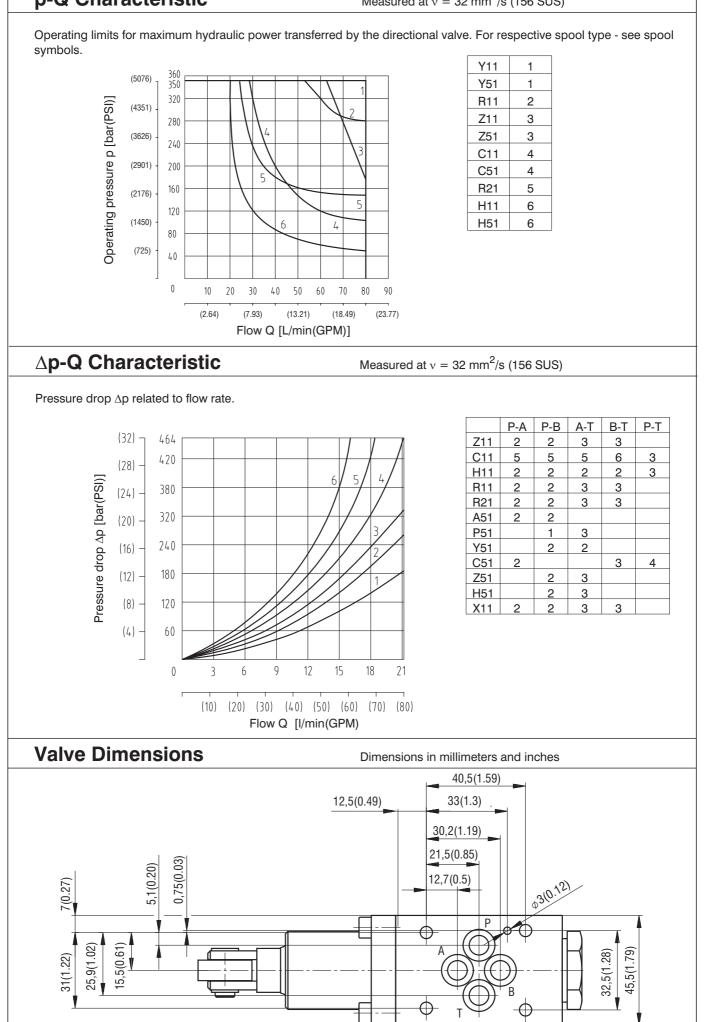
Spool Symbols

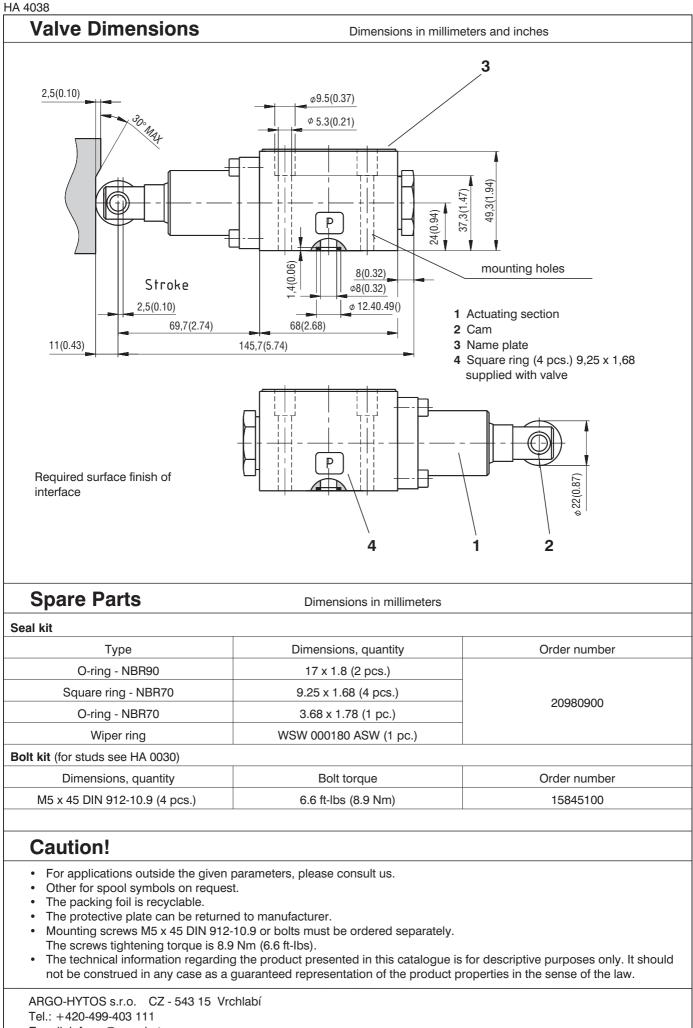
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Туре	Symbol	Crossover	Туре	Symbol	Crossover
R11			Z51		
R21			H51		
A51			Z11		
P51			X11		
Y51			C11		
C51			H11		
0	ting Dever				

Operating Power

for 0 bar(0 PSI) pressure in T port			for 20 bar (290 PSI) pressure in T port			
Stroke begg.	Oper. stroke	Total stroke	Stroke begg.	Oper. stroke	Total stroke	
35 N (8 lbs)	135 N (30 lbs)	195 N (44 lbs)	60 N (13 lbs)	160 N (36 lbs)	220 N (49 lbs)	
35 N (8 lbs)	135 N (30 lbs)	195 N (44 lbs)	60 N (13 lbs)	160 N (36 lbs)	220 N (49 lbs)	
35 N (8 lbs)	135 N (30 lbs)	195 N (44 lbs)	60 N (13 lbs)	160 N (36 lbs)	220 N (49 lbs)	
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p-Q Characteristic





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