

Directional Control Valves, with Solenoid Actuation, CETOP 3

Size 6 (D 03) 350 bar

60lpm

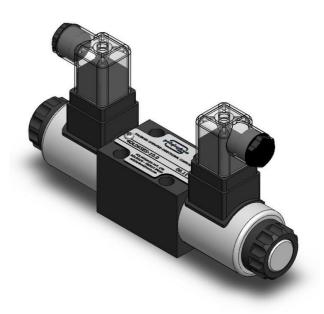
ENGINEERING

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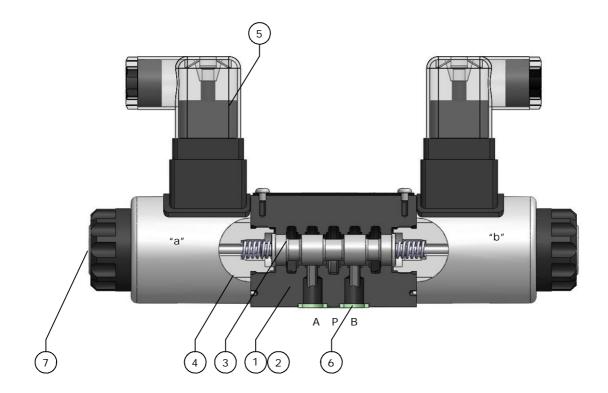
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Description

4-port, spool type, solenoid operated, directional control valves with wet armature AC or DC coils and wide variety of spool types with springcentered and spring-offset arrangements.



Features



- Five chamber body and spool design to facilitate high flow.
- Conforms to ISO4401-5, NFPA T3.5.1M R1 and ANSI B93-7 D 05 interface.
- 3. Available in 52 standard, interchangeable spool configurations.
- Removable wet-armature AC and DC solenoids for quick replacement and conversions. Moulded solenoid coils to protect against moisture and ingress of dust.
- Individual solenoid plug-in connectors with indicator lights to ISO 4400 and DIN 43650.
- 6. Special R-rings for high extrusion resistance. Increased stability under high dynamic condition.
- 7. Override for operation of valve without electrical power.

Note on solenoid identification:

Solenoid "a" is close to Port "A" and Solenoid "b" is close to Port "B" for a direct operated valve.

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SPICA

Hydraulics Pvt. Ltd.	Size 6 (D 03)	350 bar	60lpm				
Technical data							
General							
Weight	AC DO	C					

Technical data		
General		
	kg kg	AC DC
Hydraulic		
,	bar bar	350 210
Maximum Flow	lpm	60
Flow Area Spool Q, $A/B \rightarrow T$, position "C Spool R, $B \rightarrow P$, position "C Spool V, $A/B \rightarrow T$, position "C $P \rightarrow A/B$, position "C Spool W, $A/B \rightarrow T$, position "C	o"	6% 50% 12% 10% 3%
Hydraulic Fluid		Mineral Oil
Fluid Temperature NBR FKM		°C -30 to 80°C °C -20 to 80°C
Maximum degree of fluid contamina	tion	Class 18/15 according to ISO 4406 Filter $\beta_{10} \ge 75$
Electrical		
Power Requirement	W	30
Duty Cycle		Continuous
	ms ms	45ms 40ms
Insulation		IP 65

Spool Types

4/2 W	/ay Valve w	ith "o" and "a" positions	4/3 V	Vay and 4/2 ⁽¹⁾	Way Valve	М	X	
	a o		5	a o b		Р		
			*A [7 a o W		Q	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
A ⁽³⁾			*B	MO D		R		XIIII
С			Ε			Т		
D		XIII	E1 (2)	$\begin{bmatrix} X \end{bmatrix}_{T}^{\frac{1}{T}} \begin{bmatrix} 1 \end{bmatrix}$		U	X_{\perp}^{\perp}	XXXX
4/2 W	/ay Valve w	ith "o" and "b" positions	F			V	X	XXXXXX
	MO D		G			W	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
			Н		XIHIHIHI			
B ⁽³⁾			J	XHII				
Y		XIII	L					
Note	: :							

 $^{(1)}$ When ordering a spool with only two positions "o" and "a" or "o" and "b", specify the desired position "A" or "B" in model code.

Example: E Spool with "o" and "a" position—4DE06EA220A-01

 $^{\mbox{\scriptsize (2)}}$ Please check the possibility of cylinder intensification $\ensuremath{^{\mathrm{(3)}}}$ For spool type A and B. Port T must be used as drain



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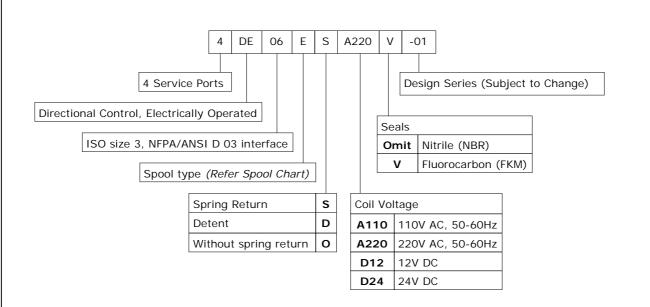
350 bar 60lpm

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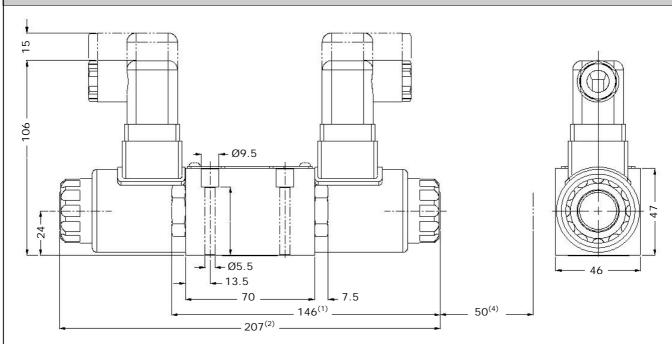
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Ordering Code



Size 6 (D 03)

Installation



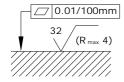
Note:

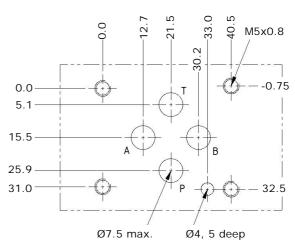
- (1) Length of valve with 1 solenoid
- (2) Length of valve with 2 solenoids
- (3) Space required to remove plug-in connector
- (4) Space required to remove solenoid

Valve Mounting Bolts:

M5 x 45 mm or #10-24 UNC x 1.3/4" Tightening Torque 9.0 Nm Mounting Hardware not included in scope of supply

Surface Condition of Mounting Surface







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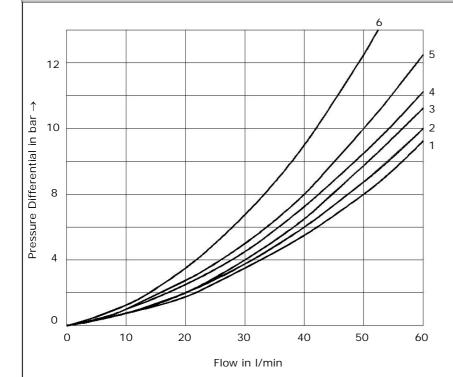
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Characteristic Curves



Spool	Direction of Flow							
Туре	P→A	Р→В	$A \rightarrow T$	В→Т	$P \rightarrow T$			
Α	3	3	-	-	-			
В	3	3	-	-	-			
С	3	3	4	1	-			
D	3	3	4	1	-			
Е	2	2	4	4	-			
F	2	2	2	2	-			
G	6	6	6	6	5			
Н	2	2	1	1	3			
J	2	2	1	1	-			
L	2	2	1	4	-			
М	2	2	4	4	-			
Р	2	2	2	2	-			

Pressure differential measured with ISO VG46 oil at 40°C ±10°C