

4/3- and 4/2- way Directional Control Valves

315 bar

Size 10 (D 05)

Model: 4DE10 with Wet Pin AC or DC Solenoids

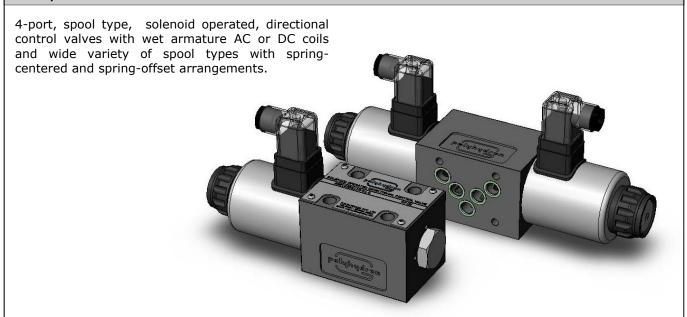
120lpm

Y02101/07.06

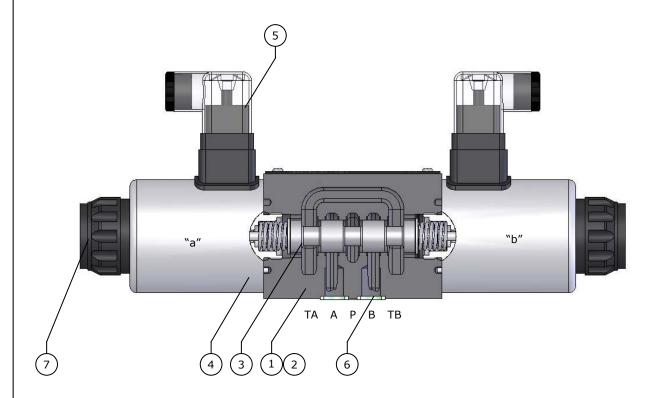
ENGINEERING

1/4

Description



Features



- Five chamber body and spool design to facilitate high flow.
- Conforms to ISO4401-5, NFPA T3.5.1M R1 and ANSI 2. B93-7 D 05 interface.
- 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.
- 5. Individual solenoid plug-in connectors with indicator lights to ISO 4400 and DIN 43650.
- 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.



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

Example: E Spool with "o" and "a" position—4DE10EA...

after the spool code.

4/3- and 4/2- way Directional Control Valves

Model: 4DE10 with Wet Pin AC or DC Solenoids

315 bar

Size 10 (D 05)

120lpm

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

Y02101/07.06

2/4

ENGINEERING

kg	AC 4.2	DC 4.3				
kg	5.7	5.8				
bar	315					
bar	175					
lpm	120					
"0"	6%					
"0"	50% 12%					
"0" "0"	10% 3%					
	Miner	al Oil				
		20: 5	200			
	ەC ەC					
nation			ding to ISO 4406			
W	35					
	Conti	nuous				
ms	60					
ms						
	12 63					
	4/2 \	/ 4 /2(1) \(\(\) \(М		
		•				
		P' 'I		Р		
	*A 🖂	a o W		Q		
	*B	o b		R		
	E Í	X -		Т		
		711 111 1 1				1 1
	⊏1		1.1	U		
				V		XXXXXIII.
ositions	F		1 1		1 1	· · · · · · · · · · · · · · · · · · ·
ositions	•			W	X	
ositions	G [1.1	1.1	W	1.1	1 1
ositions	G [1.1		W	1.1	1 1
ositions	G [1.1	1.1	W	1.1	1 1
	bar bar Ipm "0" "b" "0" "0" "0" "0" ositions	bar 315 bar 175 lpm 120 "0" 6% "b" 50% "0" 12% "0" 10% "0" 3% Miner °C °C nation Class Filter W 35 Contin ms 60 ms 30 IP 65 ositions 4/3 W	kg 4.2 4.3 kg 5.7 5.8 kg 5.9 kg 6.0	kg	kg 4.2 4.3 kg 5.7 5.8 bar 315 bar 175 lpm 120 "0" 6% 5.9mm² "b" 50% 49.3mm² "0" 12% 11.8mm² "0" 3% 3.0mm² >98.0mm² Mineral Oil CC -30 to 80°C CC -20 to 80°C CC -20 to 80°C CC -20 to 80°C CC -50 to 80°C CO -20 to 80°C CO -2	kg 4.2 4.3 kg 5.7 5.8 bar 315 bar 175 lpm 120 "0" 6% 5.9mm² "b" 50% 49.3mm² "0" 10% 9.9mm² "0" 3% 3.0mm² >98.0mm² Mineral Oil °C -30 to 80°C °C -20 to 80°C °C -20 to 80°C Nation Class 18/15 according to ISO 4406 Filter β₁₀ ≥ 75 W 35 Continuous ms 60 ms 30 IP 65 sositions 4/3 Way and 4/2(1) Way Valve A a o b A o A o A o A o A o A o A o A o A o

line



4/3- and 4/2- way Directional Control Valves Model: 4DE10 with Wet Pin AC or DC Solenoids

315 bar

Size 10 (D 05)

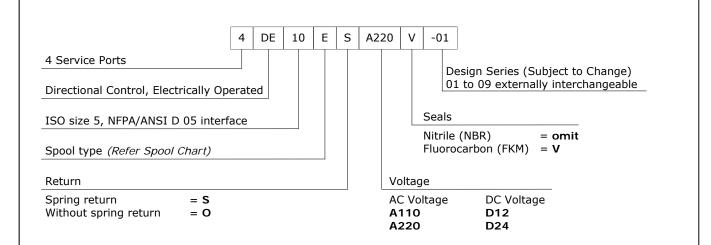
120lpm

ENGINEERING

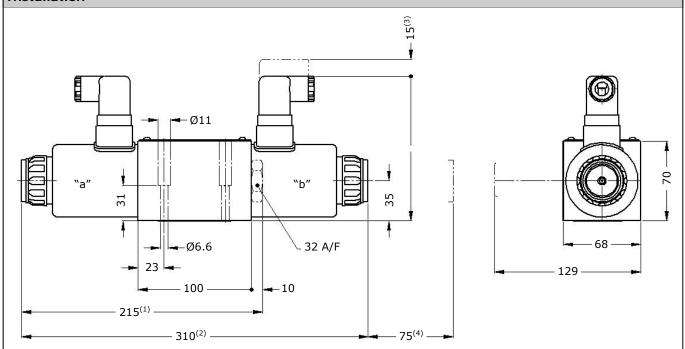
Y02101/07.06

3/4

Ordering Code



Installation

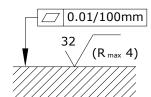


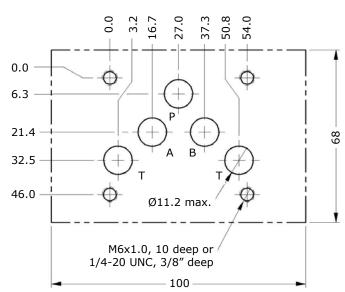
Note:

- (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:

M6 x 40 mm or 1/4-20 UNC x 1.1/2" Tightening Torque 15.5 Nm Mounting Hardware not included in scope of supply







4/3- and 4/2- way Directional Control Valves Model: 4DE10 with Wet Pin AC or DC Solenoids

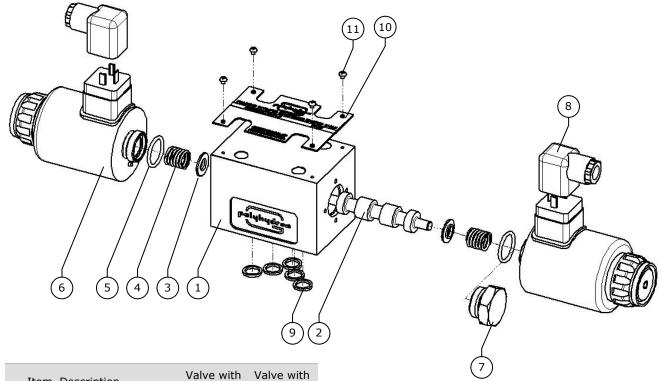
Size 10 (D 05) 315 bar 120lpm

ENGINEERING

Y02101/07.06

4/4

Spares



	Item	Description	Valve with 1 solenoid	Valve with 2 solenoids
	1	Valve Body	1	1
	2	Spool	1	1
	3	Spring Pad	2	2
	4	Spring	2	2
*	5	O-ring 21.9 x 2.62	2	2
	6	Solenoid Coil	1	2
	7	Plug	1	0
*	8	Plug-in connector	1	2
*	9	R-ring (Alternately use O-ring 12 x 2)	5	5
	10	Label	1	1
	11	Screw M3	4	4

^{*} Recommended Spares