RPEA3-06

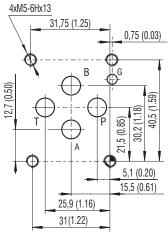
Size 06 (D03) • Q_{max} 80 l/min (21 GPM) • p_{max} 350 bar (5100 PSI)



Technical Features

- Direct acting directional control valve with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- > Low power/current (8 W/ <0.35 A) solenoid allows direct connection to a PLC or a bus node
- High transmitted hydraulic power up to 350 bar with optimized design to minimize pressure drop
- Five chamber housing with reduced hydraulic power dependence on fluid viscosity
- Solenoid electrical terminal (as per EN 175301-803) and wire box version with 5-Pin M12x1connection as per IEC 61076-2-101 (code D)
- > The valve is available with interchangeable DC solenoids
- > Wide range of interchangeable spools and manual overrides available
- Soft-shift spool speed control option
- > Optional shift position indicators (raised arrows) installed on the terminal plate
- 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)

ISO 4401-03-02-0-05



Ports P, A, B, T - max Ø7.5 mm (0.29 in)

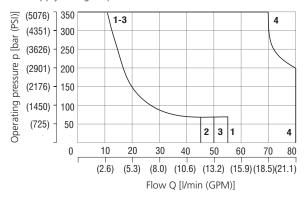
Technical Data

Valve size	06 (D03)				
Max. flow		l/min (GPM)	80 (21.1)		
Max. operating pressure at ports P, A, B		bar (PSI)	350 (5080)		
Max. operating pressure at port T		bar (PSI)	210 (3050)		
Fluid temperature range (NBR)		°C (°F)	-30 +80 (-22 +176)		
Fluid temperature range (FPM)		°C (°F)	-20 +80 (-4 +176)		
Ambient temperature range		°C (°F)	-30 +50 (-22 +122)		
Supply voltage tolerance		%	DC: ±10		
Max. switching frequency		1/h	15 000		
Enclosure type acc.to EN 60529			IP65		
Consider the second of the sec		ms	30 50		
Switching time at $v=32 \text{ mm}^2/\text{s}$ (156 SUS)	OFF	ms	10 50		
Mass - valve with 1 solenoid - valve with 2 solenoids		kg (lbs)	1.3 (2.8) 1.9 (4.2)		
vaive with 2 seleneras		Datasheet	Type		
General information		GI_0060	Products and operating conditions		
Coil types / connectors		C_8007/K_8008	C22* / K*		
Mounting interface / tolerances		SMT_0019	Size 06		
Spare parts		SP_8010			

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

Operating limits

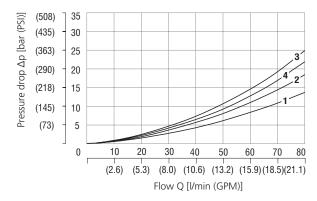
Operating limits for maximum hydraulic power at rated temperature and supply voltage equal to 90% nominal.



Z11, Y11, Z51, Y51	1
R11, X11	2
C11, C51	3
P11, P51	4

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.)

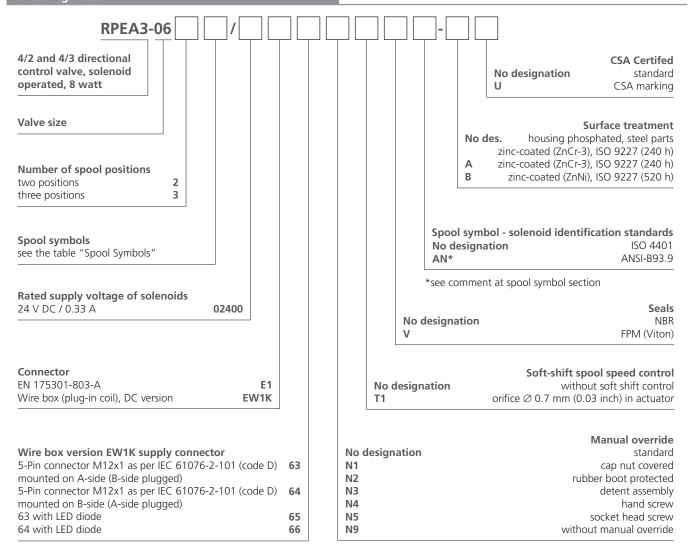
Pressure drop related to flow rate



	P-A	P-B	A-T	B-T	P-T		P-A	P-B	A-T	B-T	P-T
Z11	2	2	2	2		Z51		2	2		
C11	2	2	2	2	3	C51	2			2	3
P11	2	2	4	4		P51		1	1		
Y11	2	2	1			Y51		2	4		
R11, X11	2	2	4	2							

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- For directional valves with two solenoids, one solenoid must be de-energized before the other solenoid can be charged.
- The orifice to the P port can be ordered separately, see data sheet SP_8010.
- Mounting bolts M5 x 45 DIN 912-10.9 or studs must be ordered separately. Tightening torque is 8.9 Nm (6.56 ft-lbf).
- Besides the shown, commonly used valve versions other special models are available. Contact our technical support for their identification, feasibility and operating limits.

Spool Sy	mbols					
Туре	Symbol	Interposition	Туре	Symbol	Interposition	
Z11	o A B T		C51	A B M		
C11	о MATTER B		Z51	A B M		
P11	o A B b b b		Z11	M A B b		
Y11	o A B b b b		X11	M A B		
R11	∘ ✓ Å B P T		C11	MAB b		
P51	• ABM		Y11	M A B T T D b		
Y51	₀ ABM P T	XII	P11	M P T b	HIN THE	

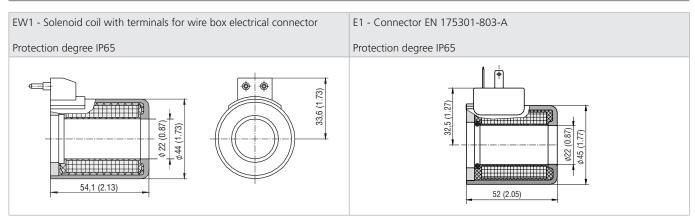
Note:

Contrary to the European Norm, the US Standard ANSI-B93.9 states that the energized solenoid routing oil flow to port A be marked with "a" and the energized solenoid routing oil flow to port B be marked with "b". This rule is valid independently of the solenoid lay-out.

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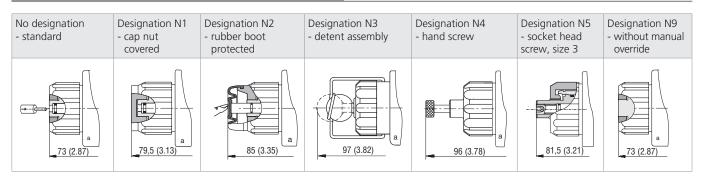


Solenoid Coil in millimeters (inches)



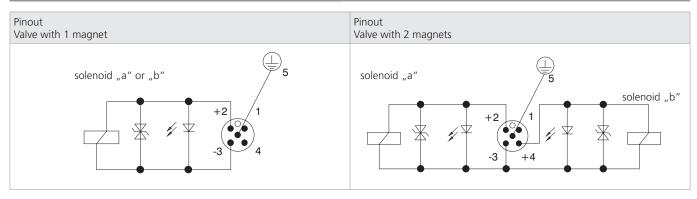
The indicated IP protection level is only achieved if the connector is properly mounted.

Manual Override in millimeters (inches)



In case of solenoid malfunction or power failure, the spool of the valve can be shifted by manual override as long as the pressure in port T does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

Connector - 5-Pin M12x1 (IEC 61076-2-101)

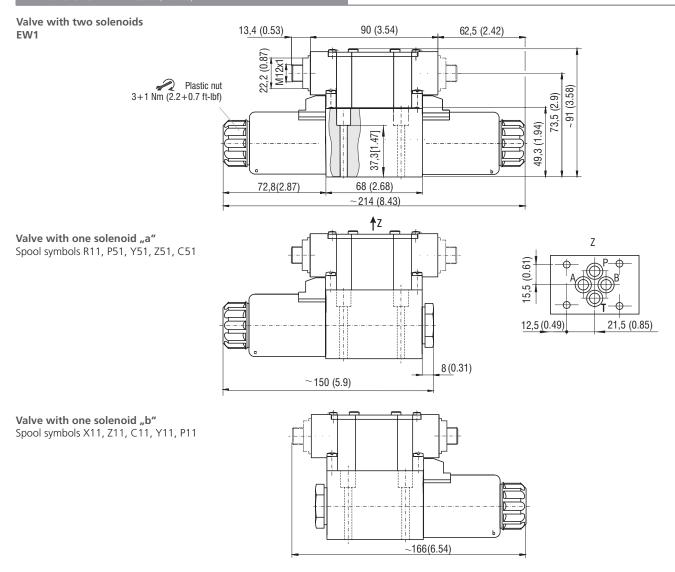


Note:

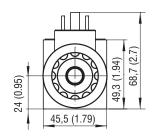
On valves with solenoid identification according to US Standard ANSI-B93.9 wiring will be different from above: on valves with one (1) solenoid Pin 2 is always driving solenoid "a" and Pin 4 solenoid "b". This is independent from the actual physical location of the solenoid.

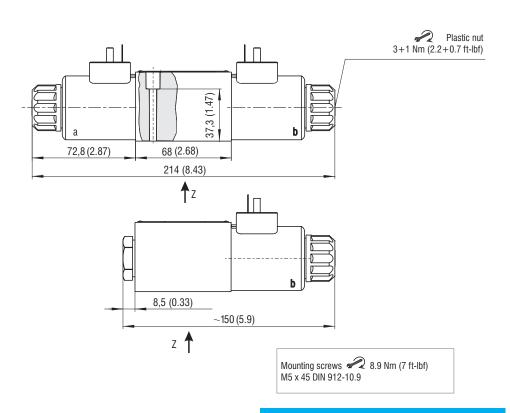
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Valve with two solenoids E1





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