RPEL1-10

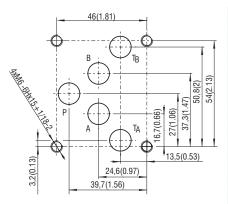
Size 10 (D05) • Q_{max} 100 l/min (26 GPM) • p_{max} 250 bar (3600 PSI)



Technical Features

- Direct acting directional control valve with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 05)
- Cost-effective Lightline design with reduced solenoid dimensions, suitable for applications with lower required power
- > Three or five chamber design for high transmitted hydraulic power
- > Wide range of solenoid electrical terminas and supply voltage types for electromagnets
- The coil, fastened to the core tube with a retaining nut, can be rotated by 360° to suit
- > the available space
- > Wide range of interchangeable spools
- > In the standard version, the valve housing is phosphated and steel parts zinc-coated for 240 h protection in NSS acc. to ISO 9227.
- > Enhanced surface protection for mobile sector available (520 h in NSS, ISO 9227)

ISO 4401-05-04-0-05



Ports P, A, B, T - max ⊘11.2 mm (0.44 in)

Technical Data

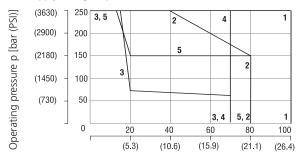
Valve size			10 (D05)						
Max. flow		l/min (GPM)	100 (26.4)						
Max. operating pressure at ports P, A, B		bar (PSI)	250 (3630)						
Max. operating pressure at port T		bar (PSI)	210 (3045)						
Fluid temperature range (NBR)		°C (°F)	-30 +80 (-22 +176)						
Fluid temperature range (FPM)		°C (°F)	-20 +80 (-4 +176)						
Ambient temperature range		°C (°F)	-30 +50 (-22 +122)						
Supply voltage tolerance		%	DC: ±10						
Max. switching frequency		1/h	10 000						
Switching time at $v=32 \text{ mm}^2/\text{s}$ (156 SUS)	ON	ms	30 50						
Switching time at $v=32 \text{ mm/s} (156 \text{ SUS})$		ms	30 50						
Weight - valve with 1 solenoid - valve with 2 solenoids		kg (lbs)	2.9 (6.4) 3.4 (7.5)						
		Datasheet	Type						
General information		GI_0060	Products and operating conditions						

	Datasheet	Type	
General information	GI_0060	Products and operating conditions	
Coil types / connectors	C_8007 / K_8008	C22B*/K*	
Mounting interface	SMT_0019	Size 10	
Subplates	Subplates_0002	DP1-10	
Spare parts	SP_8010		

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

Operating limits (p-Q)

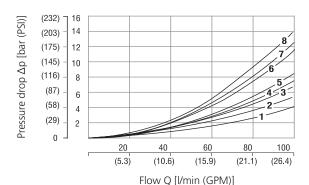
Operating limits for maximum hydraulic power at rated temperature and supply voltage equal to 90% nominal.



Flow Q [I/min (GPM)]

Spool symbol		
1	Z11, Z51	
2	Y11 (3k)	
1	H11	
4	R11, X11 (3k)	
3	C11	
5	R21 (3k)	

Pressure drop related to flow rate (△p-Q)

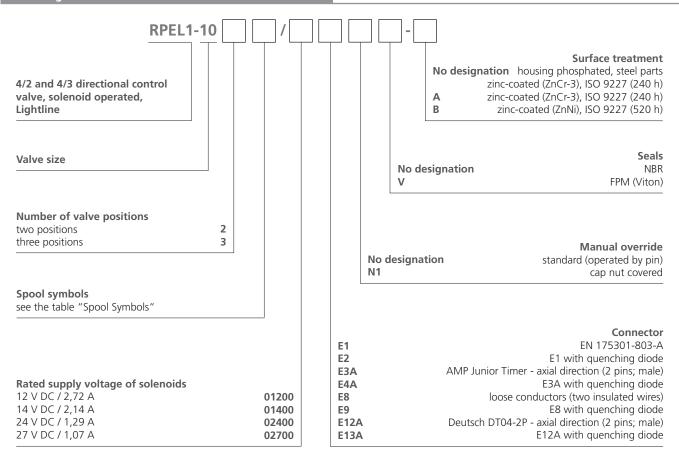


P-A P-B A-T В-Т P-T Z11 3 3 3 Z51 3 3 C11 6 6 2 6 H11 2 4 1 1 2 Y11 3 3 2 4 R11, R21, X11 2 2 4

Directional control valve Dn 10 has double T channel. If only one is directly connected to the tank, the pressure drop in the appliance channel on the closed side A/B \rightarrow T will be higher by 3 bars.

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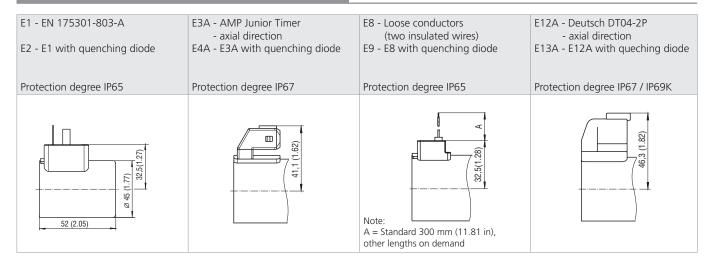
- For directional valves with two solenoids, one solenoid must be de-energized before the other solenoid can be charged.
- For other solenoid voltage supply options see data sheet C_8007.
- The solenoid operated valves are delivered without connectors. For available connectors see data sheet K_8008.
- The orifice to the P port can be ordered separately, see data sheet SP_8010.
- Mounting bolts M6 x 40 DIN 912-10.9 or studs must be ordered separately. Tightening torque is 14 Nm (10.3 lbf.ft).
- Besides the shown, commonly used valve versions other special models are available. Contact our technical support for their identification, feasibility and operating limits.

Spool Symb	ools				
Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11	o A B A B A B A B A B A B A B A B A B A		R11	o ABM	
C11	o AB		R21	• ABM	
H11	o A B b		Z51	o AB	
Y11	o AB		X11	MA B	
P11	о ДА В В В В В В В В В В В В В В В В В В				
C12	o A B A B	PIRITIAN.			

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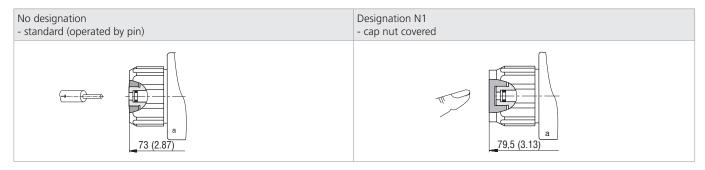


Solenoid Coil in millimeters (inches)



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

Manual Override in millimeters (inches)



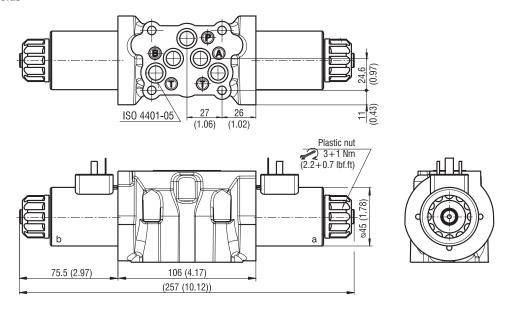
In case of solenoid malfunction or power failure, the spool of the valve can be shifted by manual override as long as the pressure in port T does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

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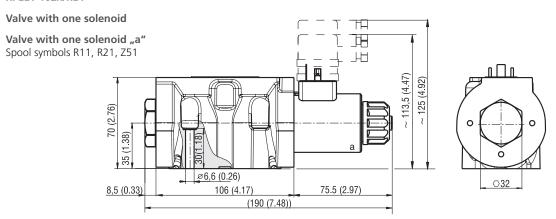


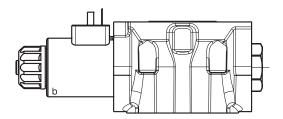
RPEL1-103x/xE1*

Valve with two solenoids



RPEL1-102x/xE1*





Valve with one solenoid "b" Spool symbols X11

Mounting screws 14 Nm (10.3 lbf.ft) 4x M6 x 40 DIN 912-10.9

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