RPEW4-10

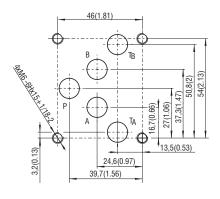
Size 10 (D05) • Q_{max} 140 l/min (37 GPM) • p_{max} 350 bar (5100 PSI)



Technical Features

- Direct acting directional control valve with subplate mounting surface acc. to ISO 4401, DIN 24340 (CETOP 05)
- > High transmitted hydraulic power up to 350 bar with optimized design to minimize pressure drop
- > Five chamber housing design with reduced hydraulic power dependence on fluid viscosity
- > Wire box for solenoid electrical connection with cable gland [1/2" NPT]
- > Optional 3-pin or 5-pin connector acc. to ANSI/B93.55M
- > Type for AC power supply with a rectifier bridge built in the wire box
- > Wide range of interchangeable spools and manual overrides available
- > CSA Certificate upon request @
- > Soft-shift spool speed control option
- > Optional LED indication of the switched ON solenoid (arrows on the cover of the wire box)
- In the standard version, the valve housing is phosphated for basic surface corrosion protection and as preparation for painting. Steel parts are zinc-coated for 240 h salt spray protection acc. to ISO 9227

ISO 4401-05-04-0-05



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

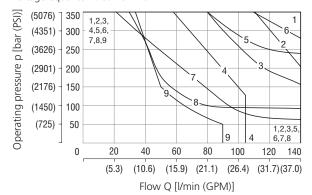
Technical Data

Valve size	10 (D05)					
Max. flow		l/min (GPM)	140 (37)			
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		%	AC: ±10	DC: ±10		
Max. switching frequency		1/h	15 000			
Enclosure type acc.to EN 60529			IP65			
Switching time at v=32 mm ² /s (156 SUS)		ms	AC: 50 330	DC: 50 120		
		ms	AC: 100 300	DC: 30 90		
Weight - valve with 1 solenoid - valve with 2 solenoids		kg (lbs)	3.9 (8.6) 5.4 (11.9)			
		Datasheet	Type			
General information		GI_0060	Products and operating conditions			
Coil types		C_8007	C31K*			
Mounting interface	SMT_0019	Size 10				
Spare parts		SP_8010				

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

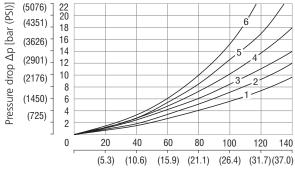
Operating limits

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



1	Z11	5	Y51	7	L21
1	Z51	3	C11	2	R21
1	H11	3	C51	6	J15
1	H51	2	R11	6	J75
1	P11	2	X11	8	A51
1	P51	4	B11	9	C21
5	Y11	4	R51		

Pressure drop related to flow rate

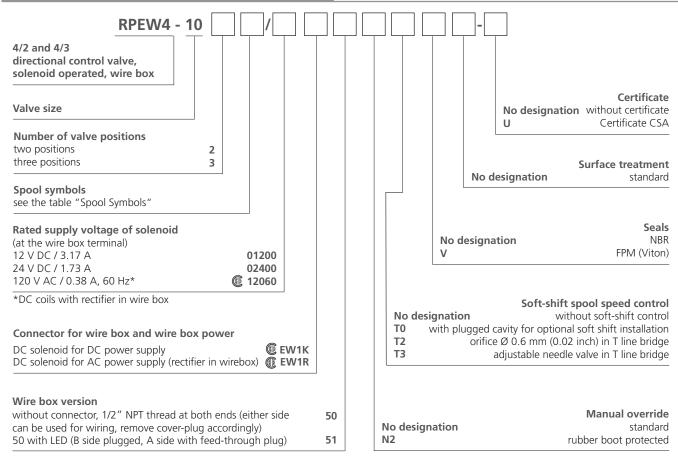


Flow Q [I/min (GPM)]

	P-A	P-B	A-T	B-T	P-T		P-A	P-B	A-T	В-Т	P-T
Z11,P11,Y11, R11,X11,B11	1	1	2	2		C11	4	3	4	5	1
Z51,P51,Y51, B51		1	2			C21	6	6	6	6	4
R21	1	1	1	3		C51	4			5	1
J15	1	2	2	3		L21	1	1	1	2	2
J75,A51	1	1				H11	1	1	2	2	1
H51		1	2		1						

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.)



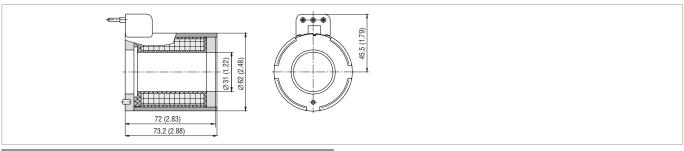


- For directional valves with two solenoids, one solenoid must be de-energized before the other solenoid can be charged.
- The port restrictor plugs can be ordered separately from the spare parts datasheet SP_8010.
- Mounting bolts M6 x 45 DIN 912-10.9 or studs must be ordered separately. Tightening torque is 14+1 Nm (10.3+0.7 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.

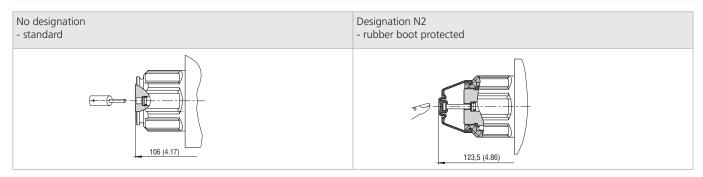
Spool Sy	mbols				
Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11	о ДА В В В В В В В В В В В В В В В В В В		P51	A B P T	
C11	• A B A B A B A B A B A B A B A B A B A		Y51	₽Ţ.	
H11	o A B b b	X:HIHIHIM)	C51	Z A B	
P11	· AB		B51	A B P T	
Y11	· A A A A A A A A A A A A A A A A A A A		Z51	A B P T	
L21	· • • • • • • • • • • • • • • • • • • •		H51	□ A B M	XIHIH
B11	о ДА В В В В В В В В В В В В В В В В В В		X11	MAB B	
C21	· A B A B A B A B A B A B A B A B A B A		C11	M P D b	
R11	• A B		H11	M B b b	
R21	o ABM	XIHIM	J15	A B b b b	
A51	o TT A B		J75	A B V b	

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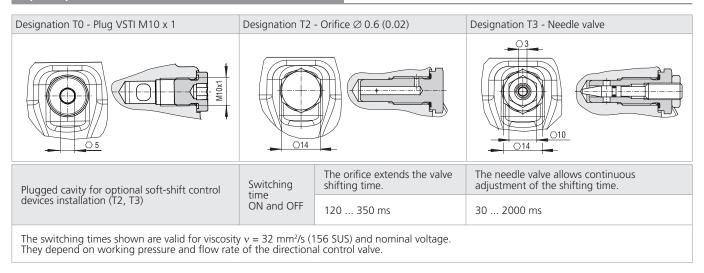


Manual Override in millimeters (inches)



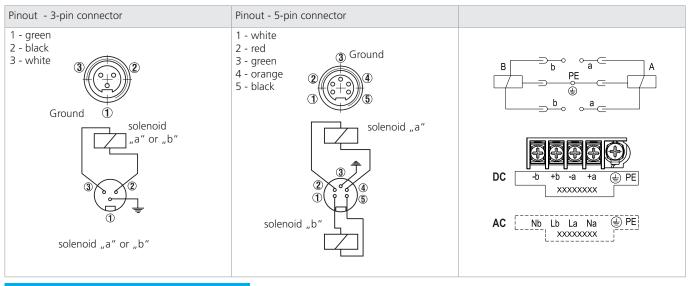
In case of solenoid malfunction or power failure, the spool of the valve can be shifted by manual override as long as the pressure in port T does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

Spool Speed Control in millimeters (inches)



Example - connecting of connectors ANSI / B93.55M

Electrical connection





Valve with two solenoids

RPEW4-103*/*EW1*

