# **RPEW4-06**

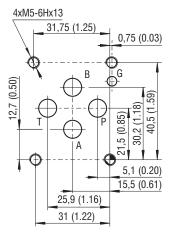
Size 06 (D03) • Q<sub>max</sub> 80 l/min (21 GPM) • p<sub>max</sub> 350 bar (5100 PSI)



### **Technical Features**

- Direct acting directional control valve with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 03)
- > 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 4401-03-02-0-05



Ports P, A, B, T - max ∅7.5 mm (0.29 in)

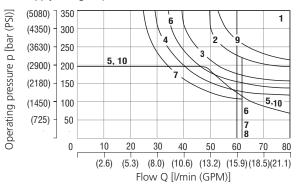
### **Technical Data**

Valve size	06 (D03)					
Max. flow	80 (21.1)					
Max. operating pressure at ports P, A, B		bar (PSI)	350 (5080) 320 (4640) for CSA			
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 (	-30 +50 (-22 +122)		
Supply voltage tolerance		%	AC: ±10	DC: ±10		
Max. switching frequency		1/h	15 000			
Enclosure type acc.to EN 60529			IP 65			
Switching time at v=32 mm <sup>2</sup> /s (156 SUS)	ON	ms	AC: 30 40	DC: 30 50		
3Witching time at v=32 min-75 (130 303)	OFF	ms	AC: 30 70	DC: 10 50		
Weight - valve with 1 solenoid - valve with 2 solenoids	kg (lbs)	1.3 (2.8) 1.9 (4.2)				
	Datasheet	Type				
General information	GI_0060	Products and operating conditions				
Coil types	C_8007	C22B*				
Mounting interface	SMT_0019	Size 06				
Spare parts	SP_8010					

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

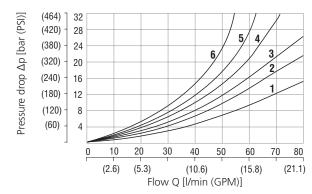
#### **Operating limits**

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



1	Z11	1	Z21	6	C51
6	C11	9	J75	1	Z51
3	H11	5	F11	7	H51
1	P11	3	R11	7	F51
2	Y11	4	R21	3	X11
5	L21	5	A51	7	N11
8	B11	1	P51	10	X25
1	J15	2	Y51		

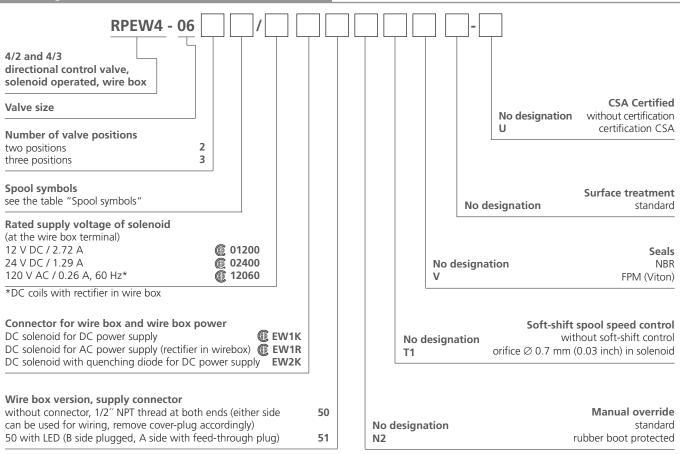
#### Pressure drop related to flow rate



	P-A	P-B	А-Т	В-Т	P-T		P-A	P-B	A-T	В-Т	P-T
Z11,L21,B11,R11 R21,X11,N11,J15	2	2	3	3		P51		1	3		
C11	5	5	5	6	3	Y51		2	2		
H11	2	2	2	3	3	C51	2			3	4
P11	1	1	3	3		C51	2			3	4
A51,J75	2	2				F11	1	2		3	3
Z21,Z51,H51,F51		2	3			Y11	2	2	2	2	

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.)

## Ordering Code

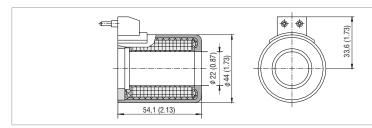


- For directional valves with two solenoids, one solenoid must be de-energized before the other solenoid can be charged.
- The orifice to the P port can be ordered separately, see datasheet SP\_8010.
- Mounting bolts M5 x 45 DIN 912-10.9 or studs must be ordered separately. Tightening torque is 8.9+1 Nm (6.56+0.7 lbf.ft).
- Besides the commonly used valve versions shown other special models are available. Contact our technical support for their identification, feasibility and operating limits.

Spoo	l Symbols							
Туре	Symbol	Interposition	Туре	Symbol	Interposition	Туре	Symbol	Interposition
Z11	a A B A B A B A B A B A B A B A B A B A		R11	a A B		Z11	M A B P T b	
C11	o A B b		R21	a ABM	XHIM	X11	MA B	
H11	a A B A B A B A B A B A B A B A B A B A	XHHHH	A51	a AB M		C11	M A B b	
P11	a A B		P51	e A B		H11	MAB b	
Y11	a A B A B A B A B A B A B A B A B A B A		X25	a A B		N11	M A B b	
L21	o A B b b		Y51	a ABM		F11	MAB b	
B11	o A B b b b b		C51	a A B M		J15	a AB b	
Z21	o A B I I I I I I I I I I I I I I I I I I		Z51	d A B		J75	a A B I	
F11	Q A B A B A B A B A B A B A B A B A B A		H51	a A B	XIHIH			
			F51	o ABM				

www.argo-hytos.com

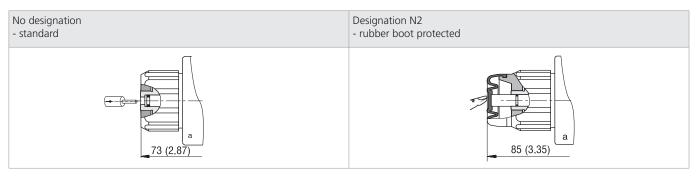




#### Protection degree IP65

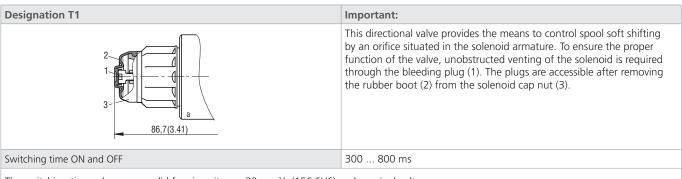
The specified IP rating applies only in the case of correctly connected connectors (male + female) with the corresponding IP rating.

## 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.

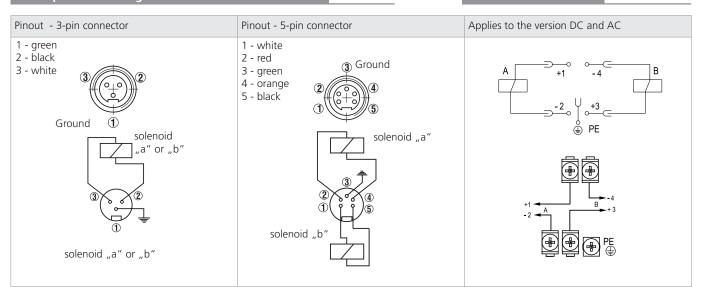
## Spool Speed Control Orifice in millimeters (inches)



The switching times shown are valid for viscosity  $\nu=32$  mm²/s (156 SUS) and nominal voltage. They depend on working pressure and flow rate of the directional control valve.

### **Example - connecting of connectors ANSI / B93.55M**

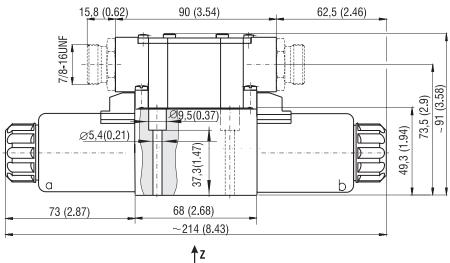
### **Electrical connection**



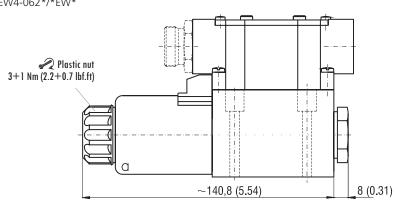


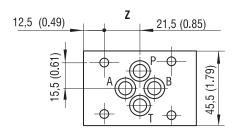
# Valve with two solenoids

RPEW4-063\*/\*EW\*



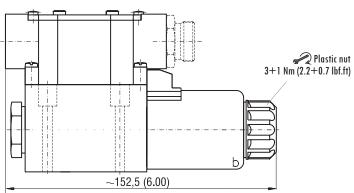
Valve with one solenoid "a" RPEW4-062\*/\*EW\*

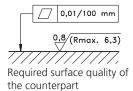




### Valve with one solenoid "b"

Spool symbols X11, Z11, C11, H11, N11, F11 RPEW4-062\*/\*EW\*





Mounting screws 3.9+1 Nm (6.56+0.7 lbf.ft) M5 x 45 DIN 912-10.9

Page 4 www.argo-hytos.com