

PILOTED OPERATED SOLENOID VALVE



Connector to be ordered separately, see sect. 18

The pilot-operated electric 2-way 2-position directional valve is controlled electrically.

The tapered poppet is in tempered and ground steel.

Available in normally open (NA) or normally closed (NC) versions.

- NA, free passage from 2 to 1 with de-energised coil.
- NC, free passage from 2 to 1 with energised coil or from 1 to 2 with deenergised coil.

Normally closed valves can work with DC or AC coils.

Normally open valves work with DC coils whereas RAC coils with a connector and incorporated rectifier must be used for AC applications.

The NC valve sleeve is in galvanised steel and the NA valve sleeve with nikel coated.

FEATURES

Max. pressure	300 bar (NA)				
Max. Flow	280 bar (NC) 20 I/min (CRP418NC) 40 I/min (CRP422NC-CRP418NA)				
Max. Leakage (0 ÷ 10 drops/min)	0 ÷ 0.5 cm ³ /min				
Max. excitation frequency	2 Hz				
Duty cycle	100% ED				
Hydraulic fluids	DIN 51524 Mineral oils				
Fluid viscosity	10 ÷ 500 mm ² /s				
Fluid temperature	-25°C ÷ 75°C				
Ambient temperature	-25°C ÷ 60°C				
Max. contamin. level class with filter	ISO 4406:1999 - class 21/19/16				
Cartridge filter	280µm				
Type of protection (in relation to the connection used)	IP65				
Weight (with coil)	0.27 kg (18) - 0.35 kg (22)				
Cartridge tightening torque	25 ÷ 30 Nm				
Coil ring nut tightening torque Emergency tightening torque	7 Nm				
Cavity standard "A" (3/4 - 16 UNF)	CD018006 - CD018009 (See section 15)				
Cavity with reduction "B" (3/4 - 16 UNF)	CD018012 (See section 15)				

HYDRAULIC SYMBOLS





8

LIMITS OF USE

PRESSURE DROPS



The tests were carried out with the solenoids at operating temperature, with a supply voltage 10% below nominal value and with a 40°C fluid temperature. The fluid used is a mineral oil with viscosity of 46 mm²/s at 40°C.

ORDERING CODE

IE/CRP04/002/2012

	CRP	04	** *	* *	÷ -	*	* *	* 2		
CRP = Piloted solenoid valve	Series								INO.	
04 = 3/4 - 16 UNF 18 - 18W dc (NA-NC) - C30]]	Size					00 = No P4 = Pu P3 = Ro SF = W	o variants ush bott.emerg. (.NA) otary emerg. (.NA) /ithout cartridge filter	FK = Wi AJ = AN CX = De bidirection	th flying leads 600 mm (<i>t</i>) <i>A</i> P Junior connection (<i>2</i>) eutsch connection with onal diode (<i>3</i>)
22 = 22W dc (NC) - C36			<u>'</u>				Connecto	or to be ordered separ	ately, se	ee sect. 18
NA = Normally open]		Version					DC 18W/22W (C30	-C36)	AC 18W (C30)
NC = Normally closed A = Standard - Ø 12.7 mm B = With reduction - Ø 15.9 mm]			Seat size		Vo	oltage	L = 12 VDC M = 24 VDC N = 48 VDC 2 = 21.6 VDC RAC (4 Z = 102 VDC RAC (5)	e)	A = 24 VAC 50 Hz J = 115 VAC 50 Hz I = 230 VAC 50 Hz F = 24 VAC 60 Hz C = 110 VAC 60 Hz
S = Without emergency (NC)	Version					$\mathbf{X} = 205 \text{ VDC RAC } (6)$ $\mathbf{W} = \text{Without coil } (7)$			$\mathbf{D} = 220 \text{ VAC } 60 \text{ Hz}$ $\mathbf{K} = \text{Without coil } (7)$	
E = With emergency (NA-NC)								Coils technical data,	see sect.	17
(1) Only voltages 12 VDC - 24 VDC (2) Only voltages 12 VDC - 24 VDC and coil 1 (3) Only voltages 12 VDC - 24 VDC and coil (4) With rectifier: 24 VAC/50-60Hz	22W 18W			(5) V (6) V (7) P	Vith recti Vith recti erformar	fier: 11 fier: 23 nce are	5 VAC/50Hz 30 VAC/50H guaranteed	z - 120VAC/60Hz z - 240VAC/60Hz only using valves con	npleted v	vith BFP coil

SHEET: 2/2

SOLENOID VALVES - 2-WAY

CAT: BFP/VCAR Page: 71