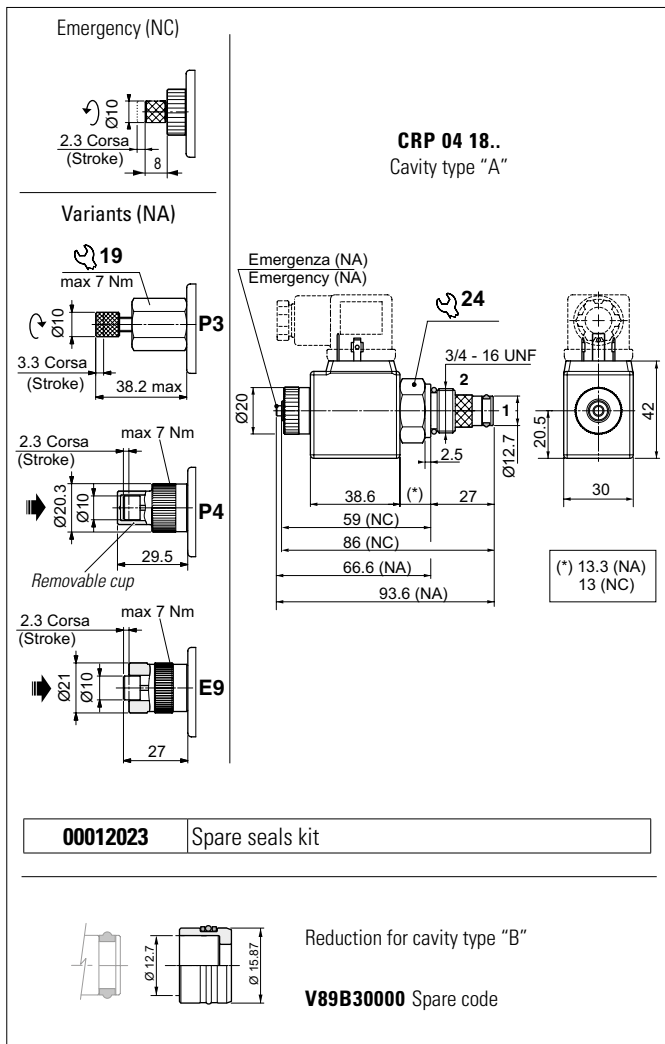


PILOTED OPERATED SOLENOID VALVE



Connector to be ordered separately, see sect. 20

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.

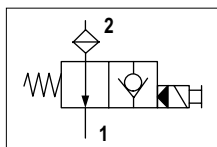
Valve	Free passage	Coil	Type
CRP..NA	2 → 1	DE-ENERGISED	Unidirectional
CRP..NC	2 → 1 1 → 2	ENERGISED DE-ENERGISED	
CRB..NA	1 → 2 2 → 1	DE-ENERGISED	Bidirectional
CRB..NC	1 → 2 2 → 1	ENERGISED / DE-ENERGISED ENERGISED	

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 nickel coated.

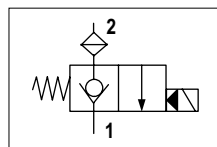
FEATURES

Max. pressure	300 bar
Max. Flow	40 l/min
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 19/17/14
Cartridge filter	280µm
Type of protection (in relation to the connection used)	IP65
Weight (with coil)	0.27 kg
Cartridge tightening torque	25 ÷ 30 Nm
Coil ring nut tightening torque	7 Nm
Emergency tightening torque	
Cavity standard "A" (3/4 - 16 UNF)	CD018006 (See section 17)
Cavity standard "A" + seat VSCOA**01	CD018009 (See section 17)
Cavity with reduction "B" (3/4 - 16 UNF)	CD018012 (See section 17)

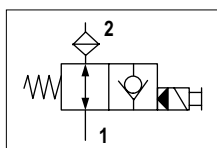
HYDRAULIC SYMBOLS



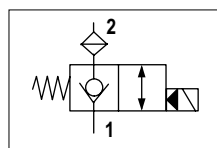
CRP - Normally open



CRP - Normally closed



CRB - Normally open

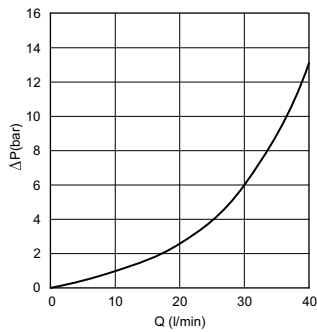


CRB - Normally closed

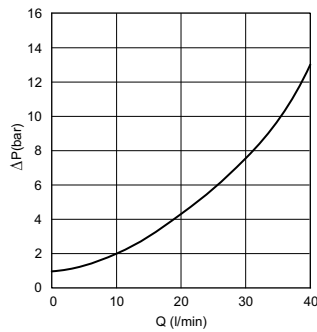
PRESSURE DROPS

LIMITS OF USE

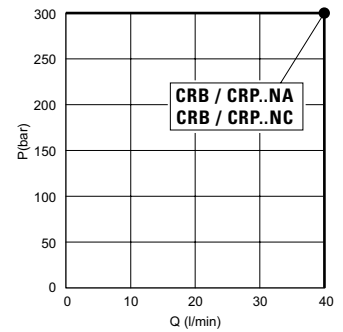
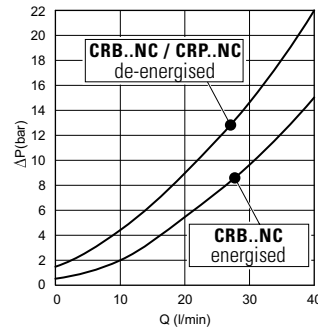
CRB..NA (1 → 2 2 → 1)
CRP..NA (2 → 1)



CRB..NC (2 → 1)
CRP..NC (2 → 1)



CRB..NC (1 → 2)
CRP..NC (1 → 2)



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

	CR*	04	18	**	*	*	*	**	*															
	Series	Size	Coil	Version	Seat size	Version	Voltage	Variants																
<p>CRB = Piloted solenoid valve bidirectional</p> <p>CRP = Piloted solenoid valve unidirectional</p>		<p>04 = 3/4 - 16 UNF</p>	<p>18 = 18W dc (NA-NC) - C30</p>	<p>NA = Normally open (solo con bobine DC o RAC)</p> <p>NC = Normally closed</p>	<p>A = Standard - Ø 12.7 mm</p> <p>B = With reduction - Ø 15.9 mm</p>	<p>S = Without emergency (NC)</p> <p>E = With emergency (NA-NC)</p>		<p>00 = No variants</p> <p>P4 = Push button Emergency with removable protection (..NA)</p> <p>P3 = Rotary Emergency (..NA)</p> <p>E9 = Push button Emergency direct control (..NA)</p> <p>SF = Without cartridge filter</p> <p>FK = With flying leads 600 mm (1)</p> <p>CX = Deutsch connection with bidirectional diode (2)</p> <p><i>Connector to be ordered separately, see sect. 20</i></p>	<p>1 = CRB - Serial No.</p> <p>3 = CRP - Serial No.</p>															
							<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">DC 18W (C30)</th> <th style="text-align: left;">AC 18W (C30) (7)</th> </tr> </thead> <tbody> <tr> <td>L = 12 VDC</td> <td>A = 24 VAC 50 Hz</td> </tr> <tr> <td>M = 24 VDC</td> <td>J = 115 VAC 50 Hz</td> </tr> <tr> <td>N = 48 VDC</td> <td>I = 230 VAC 50 Hz</td> </tr> <tr> <td>2 = 21.6 VDC RAC (3)</td> <td>F = 24 VAC 60 Hz</td> </tr> <tr> <td>Z = 102 VDC RAC (4)</td> <td>C = 110 VAC 60 Hz</td> </tr> <tr> <td>X = 205 VDC RAC (5)</td> <td>D = 220 VAC 60 Hz</td> </tr> <tr> <td>W = Without coil (6)</td> <td>W = Without coil (6)</td> </tr> </tbody> </table>	DC 18W (C30)	AC 18W (C30) (7)	L = 12 VDC	A = 24 VAC 50 Hz	M = 24 VDC	J = 115 VAC 50 Hz	N = 48 VDC	I = 230 VAC 50 Hz	2 = 21.6 VDC RAC (3)	F = 24 VAC 60 Hz	Z = 102 VDC RAC (4)	C = 110 VAC 60 Hz	X = 205 VDC RAC (5)	D = 220 VAC 60 Hz	W = Without coil (6)	W = Without coil (6)	
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W = Without coil (6)	W = Without coil (6)																							
									<p><i>Coils technical data, see sect. 19</i></p>															

<p>(1) Only voltages 12 VDC - 24 VDC</p> <p>(2) Only voltages 12 VDC - 24 VDC</p> <p>(3) With rectifier: 24 VAC/50-60Hz</p> <p>(4) With rectifier: 115 VAC/50Hz - 120VAC/60Hz</p>	<p>(5) With rectifier: 230 VAC/50Hz - 240VAC/60Hz</p> <p>(6) Performance are guaranteed only using valves completed with BFP coil</p> <p>(7) Only for NC valves</p>
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