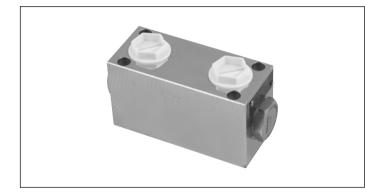


Flangeable elements with single or double acting Cross Piloted Check Valves

EDCM/EDCMF-VR



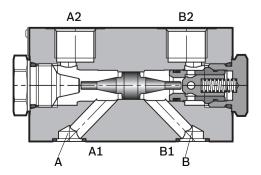
Description

These secondary flangeable elements can be interfaced and bolted on top of the A and B ports of the ED elements of the directional valve assembly.

They incorporate two cross piloted check valve which allow free flow toward the A and B outlet ports, and lock in a leak free mode the flow returning from the actuator, until sufficient pilot pressure is built up in the opposite line and the check valve in opened.

Depending on the version selected (AB, or 0A, or 0B), the PO check valve is in both A and B ports, or in A port only, or in B port only (see hydraulic symbols).

The pilot ratio in 3:1, consequently, the pilot pressure needs to be at least 1/3, or 33% of the load induced pressure in the actuator before Check Valve opens, and oil can return to tank. The body of these elements in made of Yellow Zinc Plated (Cr+3) Cast Iron (Cl). Hydraulic Ports A2 and B2 are size G3/8 or G1/2 or 34-16 UNF 2-B (SAE8).



Technical data

General				
Weight (AB, 0A, 0B version)	kg (lbs)	2.0 (4.4)		
Ambient Temperature	°C (°F)	–20+50 (-4+122) (NBR seals)		
Hydraulic				
Maximum pressure	bar (psi)	310 (4500)		
Maximum flow	l/min (gpm)	70 (18.5)		
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.		
Fluid Temperature	°C (°F)	-20+80 (-4+176) (NBR)		
Permissible degree of fluid contamination		ISO 4572: β _x ≥75 X=1012 ISO 4406: class 19/17/14 NAS 1638: class 8		
Viscosity range	mm²/s	5420		

Note

For applications with different specifications consult us

Replaces: 07.2012

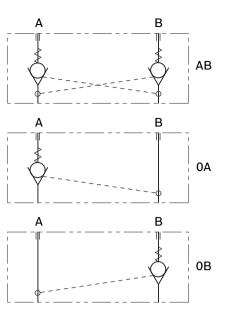
RE 18301-46 Edition: 02.2016

2 **EDCM/EDCMF-VR** | Flangeable elements Ordering details

Ordering details

01		02	03	04	05		06	07	
L		85	41			00		0	
Family									
01	Directional Valve								
Model									
02	Flangeable element for EDC valves								
Туре									
03	Cross Piloted Check Valves							41	
Configuration									
04	Ch	eck Valve	es for bot	h A and	B ports			00AB	
	Check Valve for port A only							000A	
	Check Valve for port B only							000B	
Cracking Pressure									
05	0.5	5 bar (7.3	3 psi)					01	
	5 k	oar (72,5	psi)					05 ¹⁾	
Ports	Ports								
06	G :	3/8 DIN 3	3852					0	
	G 1/2 DIN 3852							2	
	3/4" - 16 UNF - SAE8							3	
	Machined for interfacing to modular elements								
Additional fixtures									
07	Standard							0	

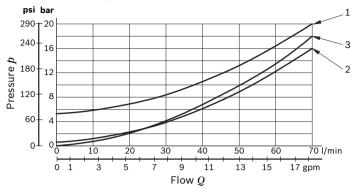
Symbols



1) Recommended version for EDC-P (RE18301-09)

Characteristic curves

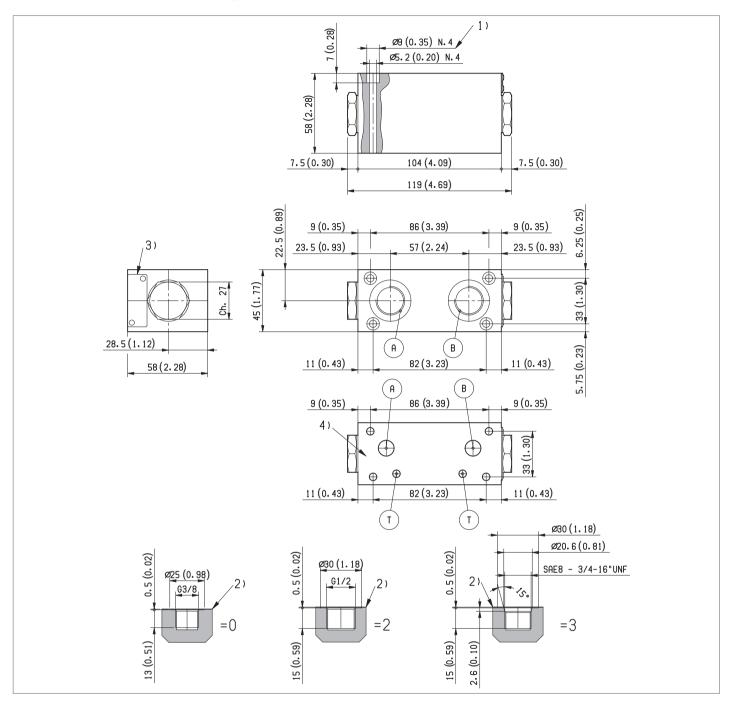
Pressure relieving



Cracking pressure	Curve no.
5 bar (72,5 psi) free flow either A1 > A2 or B1 > B2	1
0.5 bar (7.3 psi) free flow either A1 > A2 or B1 > B2	2
Returning flow, fully piloted, either A2 > A1 or B2 > B1	3

Measured with hydraulic fluid ISO-VG32 at 45° \pm 5 °C (113° \pm 9 °F); ambient temperature 20 °C (68 °F).

External dimensions and fittings



- 1 Four through holes Ø 5.2 mm (0.205 inch) for screw and tightening torques see data sheet RE 18301-90.
- 2 A and B ports for the actuator.

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- 3 Identification label.
- 4 Machined for interfacing to modular elements (=M ports version).

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Subject to change.