

RE 18301-46

# Flangeable elements with single or double acting Cross Piloted Check Valves

EDCM/EDCMF-VR

Edition: 02.2016 Replaces: 07.2012



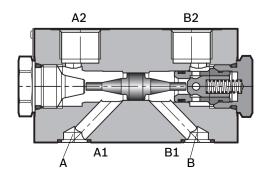
#### **Description**

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 3/4-16 UNF 2-B (SAE8).



#### Technical data

General				
Weight	kg (lbs)	2.0 (4.4)		
(AB, 0A, 0B version)				
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	Mineral oil based hydraulic			
General properties: it mu	fluids HL (DIN 51524 part 1).			
physical lubricating and o	Mineral oil based hydraulic			
properties suitable for us	fluids HLP (DIN 51524 part 2).			
hydraulic systems such a	For use of environmentally			
example:		acceptable fluids		
		(vegetable or polyglycol		
		base) please consult us.		
Fluid Temperature	°C (°F)	-20+80 (-4+176) (NBR)		
Permissible degree of		ISO 4572: β <sub>x</sub> ≥75 X=1012		
fluid contamination		ISO 4406: class 19/17/14		
		NAS 1638: class 8		
Viscosity range	mm²/s	5420		

#### Note

For applications with different specifications consult us.

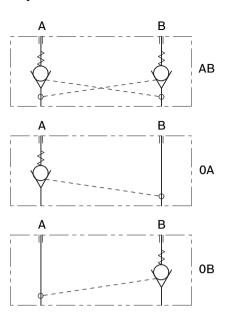
# 2

# **Ordering details**

01	L 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	Check Valves for both A and B ports						00AB
	Check Valve for port A only						000A
	Check Valve for port B only						000B
Cracl	king Pressur	e					
05	0.5 bar (7.3	3 psi)					01
	5 bar (72,5 psi)						05 <sup>1)</sup>
Ports	3						
06	G 3/8 DIN 3	3852					0
	G 1/2 DIN 3	3852					2
	3/4" - 16 U	NF - SAE	8	•			3
	Machined for interfacing to modular elements						
Additional fixtures							
07	Standard						0

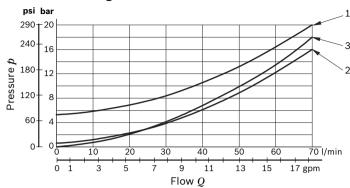
<sup>1)</sup> Recommended version for EDC-P (RE18301-09)

#### Symbols



### **Characteristic curves**

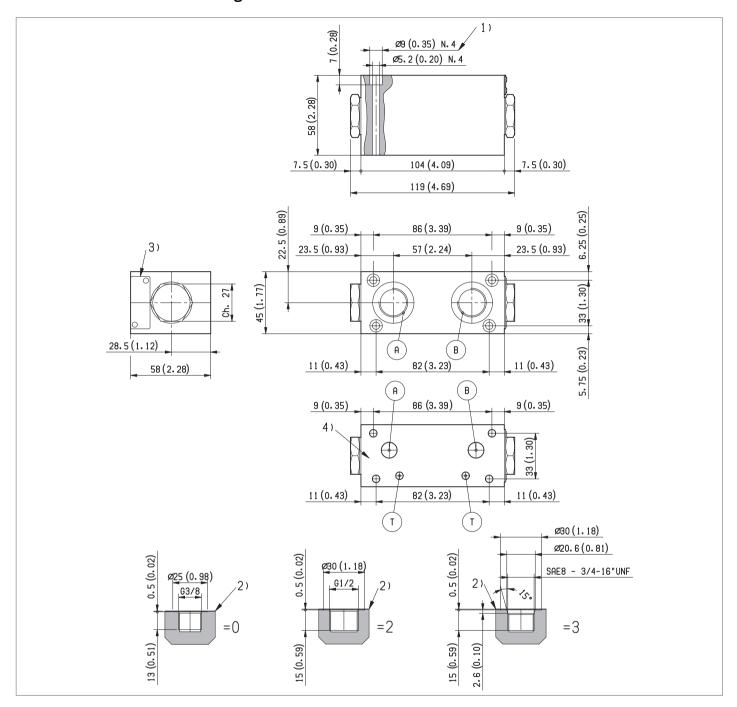
### Pressure relieving



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.

#### Bosch Rexroth Oil Control S.p.A.

Oleodinamica LC Division
Via Artigianale Sedrio, 12
42030 Vezzano sul Crostolo
Reggio Emilia - Italy
Tel. +39 0522 601 801
Fax +39 0522 606 226 / 601 802
compact-hydraulics-cdv@boschrexroth.com
www.boschrexroth.com/compacthydraulics

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

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Subject to change.