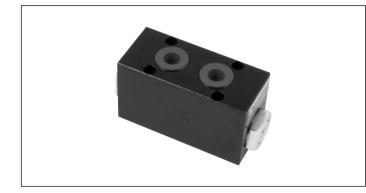


RE 18301-40 Edition: 02.2016

Replaces: 07.2012

Flangeable elements with single or double acting Cross Piloted Check Valves

EDM-VR



Description

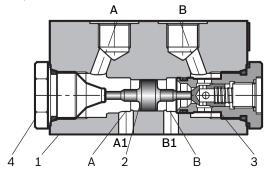
The secondary flangeable elements EDM-VR-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly.

They incorporate two Cross Piloted Check Valves 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 is 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 is 4:1, consequently, the pilot pressure needs to be at least 1/4, or 25% of the load induced pressure in the actuator before the Check Valve opens, and oil can return to tank.

The body of the EDM-VR- elements is made of Black Anodized Aluminium (AL). Hydraulic Ports A2 and B2 are size G 3/8.



Technical data

Q				
General				
Weight	kg (lbs)	0.8 (1.76)		
EDM-VR AB and A/B				
Ambient Temperature	°C (°F)	-20+50 (-4+122)		
		(NBR seals)		
Hydraulic				
Maximum pressure	bar (psi)	250 (3625)		
Maximum flow	l/min (gpm)	50 (13.2)		
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 _x ≥75 X=1215		
fluid contamination		ISO 4406: class 20/18/15		
		NAS 1638: class 9		
Viscosity range	mm²/s	5420		

Note

For applications with different specifications consult us

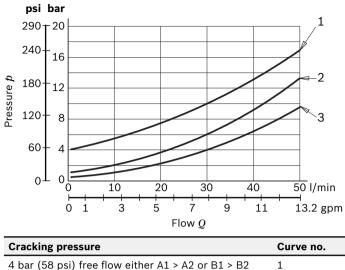
2 **EDM-VR** | Flangeable elements Ordering details

Ordering details

01	. 02	03	04	05		06			
L	88	40			00	0	0		
Family									
01	Directional Valve elements ED								
Mode	el								
02	Flangeable element secondary valves								
Туре									
03	Cross Piloted Check Valves								
Confi	iguration								
04	Check Valves for both A and B ports								
	Check Valve for port A only								
	Check Valv	e for por	t B only				000B		
Cracl	king Pressu	re							
05	0.5 bar (7.	3 psi)					01		
	4 bar (58 p	osi)					04		
Ports	5								
06	G 3/8 DIN	3852					0		

A B AB

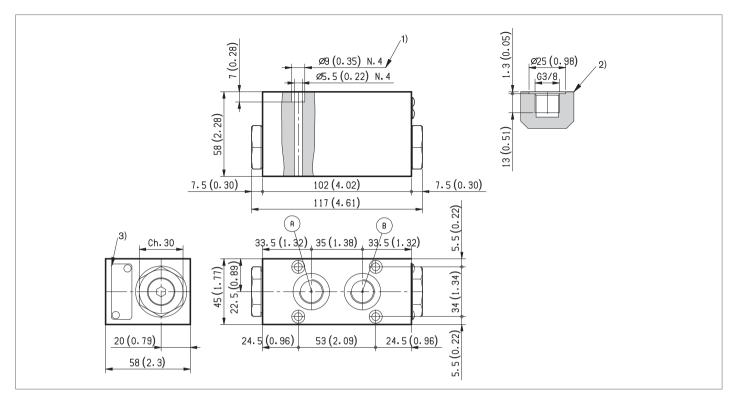
Characteristic curves



4 bar (50 psi) nee now children A1 × A2 of D1 × D2	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 $45^{\circ} \pm 5 \text{ °C}$ (113° $\pm 9 \text{ °F}$); ambient temperature 20 °C (68 °F).

External dimensions and fittings



- 1 Four through holes Ø 5.5 mm (0.217 inch) for screws and tightening torques see data sheet RE 18301-90.
- 2 A and B ports for the actuator.
- 3 Identification label.

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 © 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.