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RE 18316-15/03.22 Replaces:10.09

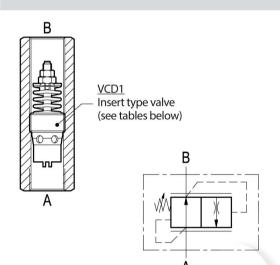
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Flow control valves

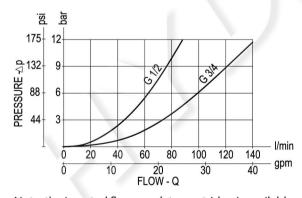
Pressure compensated partially adjustable flow regulators, with female sleeve

VCDC-H-MC (G1/2 - G3/4)

OE.22.03.01-Y-Z



Performance



Description

This valve is composed by a sleeve with an inserted pressure compensated flow regulator cartridge (VCD1); it controls the oil flow from B to A, and prevents it from exceeding the adjusted value regardless of working pressure, while establishing a minimum pressure differential between 3 bar and 8 bar (45 psi and 115 psi) approximately between the two ports. The inserted cartridge is available in different sizes (as well as the sleeve), and each size is available with different orifices, each one for a specific flow range (see Performance Diagram and Flow Range "Z" table). For each selected size and flow range, the pressure compensated flow can be tuned finely by changing the spring load (see table of Dimensions).

In the reverse direction, A to B, the valve behaves as a fixed restriction, and it allows free flow depending from the pressure available (see Performance diagram).

Technical data

VCD1 Code	Ports A-B	Pressure P max bar (psi)	Flow Q max I/min (gpm)	Weight kg (lbs)
0T.F3.01.02.03	G 1/2	315 (4500)	67 (18)	0.04 (0.09)
0T.F3.01.02.04	G 3/4	315 (4500)	150 (40)	0.07 (0.15)

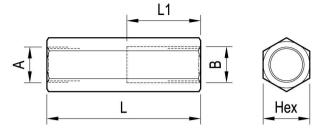
Steel body, zinc plated Special ports available on request.

Note: the inserted flow regulator cartridge is available with a number of different orifices for different flow ranges, as specified by the "Z" table: when ordering please specify the needed Flow Range ("Z table"), as well as the needed Port Size ("Y table"). Customer tailored flow adjustments are available on request: for details, please consult us.

Advantages

- -Compact design and inline mounting for space saving.
- -Mounting position is unrestricted
- -The inserted flow regulator cartridge can be purchased separately for easy service or for modifications to the original flow adjustment (see data sheet RE 18329-80).

Dimensions



Ports size / Dimensions

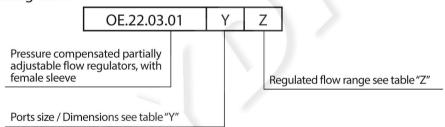
Υ	Ports A-B	L mm (inches)	L1 mm (inches)	Hex mm (inches)	Sleeve code
03	G 1/2	80 (3.15)	48 (1.89)	27 (1.06)	OC.51.02.008
04	G 3/4	100 (3.94)	59 (2.32)	32 (1.26)	OC.51.02.009

7	REGULATED FLOW RANGE /min (gpm)				
Z	G 1/4	G 3/8	G 1/2	G 3/4	
01 -	2.5-4.0	16-21	37-50		
	_	(0.66-1.06)	(4.23-5.55)	(9.78-13.21)	
02	1-1.6	4.0-6.3	21-28	50-67	
02	(0.26-0.43)	(1.06-1.67)	(5.55-7.40)	(13.21-17.7)	
02	1.6-2.5	6.3-10	28-37	67-90	
03	(0.43-0.66)	(1.67-2.64)	(7.40-9.78)	(17.7-23.78)	
04	2.5-4.0	10-16	37-50	90-120	
04	(0.66-1.06)	(2.64-4.23)	(9.78-13.21)	(23.78-31.7)	
05	4.0-6.3	16-25	50-67	120-150	
	(1.06-1.67)	(4.23-6.61)	(13.21-17.7)	(31.7-39.63)	
06	6.3-10	2000		_	
	(1.67-2.64)		_		

Applications

Typical applications are the control of the maximum speed of an actuator (double or single acting cylinder, or motor), which is generally achieved by regulating the maximum flow out from the actuator (or meter-OUT). The flow, and consequently the maximum actuator speed, will vary slightly with changes in fluid viscosity, but will be largely independent from the load and from the working pressure.

Ordering code



Туре	Material number
OE2203010301	R934001694
OE2203010302	R934001695
OE2203010303	R934001697
OE2203010304	R934001699
OE2203010305	R934001700
OE2203010401	R932007279
OE2203010402	R934001701
OE2203010403	R934001702
OE2203010404	R932007280

Туре	Material number		

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Material number

Type