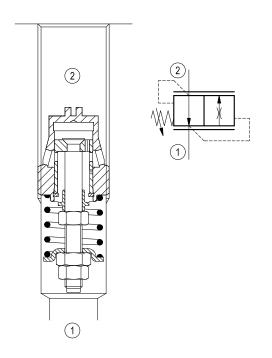


RE 18329-80/01.19 1/2 Replaces: RE 18329-80/03.16

Insert type Flow control, 2-way pressure compensated, partially adjustable

VCD1 0T.F3.01 - X - Y - Z



Note: available also as "Sleeve valve for line mounting" See data sheets RE 18316-14, RE 18316-15, RE 18316-16 and RE 18316-17

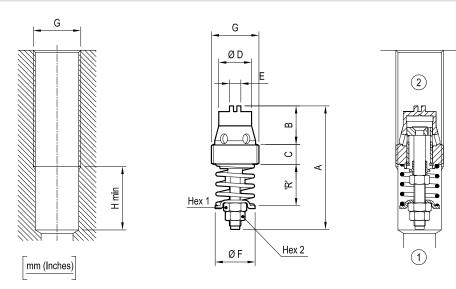
Description

These valves can be used either as lowering control devices or as two ways flow regulators. In the firs option, they keep the lowering speed largely independent from the load, while, in the second option, they limit flow to the preset value which can be adjusted within the regulate flow path. On the opposite flow direction, from 2 to 1, the valve is acting as a free flow check reducing the pressure drop to low values (see diagram $\Delta P - Q$).

Technical data

Max. operating press	sure bar (psi)	315 (4500)		
Max. flow	l/min. (gpm)	see "Flow range adjustment" table and "Performance" graphs		
Fluid temperature ra	nge °C (°F)	-30 to 100 (-22 to 212)		
Installation torque	Nm (ft-lbs)	see "Dimensions" table		
Weight	kg (lbs)	see "Dimensions" table		
Special cavity		see "Dimensions"		
Lines bodies and st assemblies	andard	Please refer to section "Hydraulic integrated circuit" or consult factory		
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)		
Recommended degree contamination	of fluid	Nominal value max. 10µm (NAS 8) ISO 4406 20/18/15		
Installation		No restrictions		
Other Technical Dat	ia	See data sheet RE 18350-50		

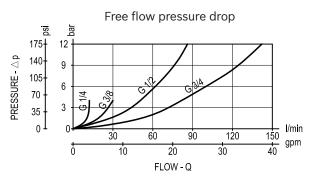
Dimensions



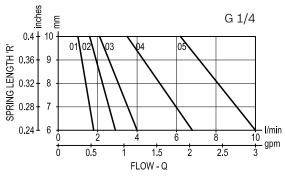
G *	А	В	С	D	E	F	Hex 1	Hex 2	Н	Weight kg (lbs)	Inst. torque Nm (ft-lbs)	Flow max. I/min. (gpm)
G 1/4	38.3 (1.51)	12.5 (0.49)	7 (0.28)	10 (0.39)	4 (0.16)	10.3 (0.41)	5.5 (0.22)	4.5 (0.18)	22 (0.87)	0.012 (0.027)	6 (4)	10 (3)
G 3/8	43 (1.69)	13.5 (0.53)	7 (0.28)	11.5 (0.45)	4 (0.16)	14 (0.55)	7 (0.28)	6 (0.24)	23 (0.91)	0.025 (0.055)	8 (6)	25 (7)
G 1/2	49 (1.93)	16 (0.63)	8 (0.32)	15 (0.59)	6 (0.24)	18.2 (0.72)	7 (0.28)	6 (0.24)	27 (1.06)	0.038 (0.084)	12 (9)	67 (18)
G 3/4	60 (2.36)	21 (0.83)	10 (0.39)	20 (0.79)	6 (0.24)	23 (0.91)	7 (0.28)	6 (0.24)	31 (1.22)	0.070 (0.154)	15 (11)	150 (40)

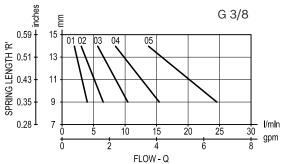
^{*} Thread in accordance with ISO 228-1 Note: Metric versions available on request. Consult factory.

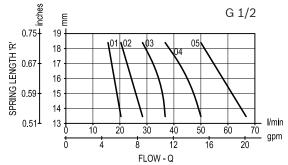
Performance

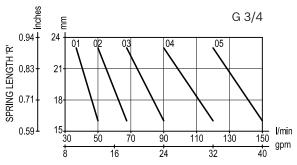


Performance curves: spring's length - flow (regulated flow) with nominal pressure of 50 bar (725 psi). Curves rapresent the obtained flow range related to orifices 01-02-03-04-05.

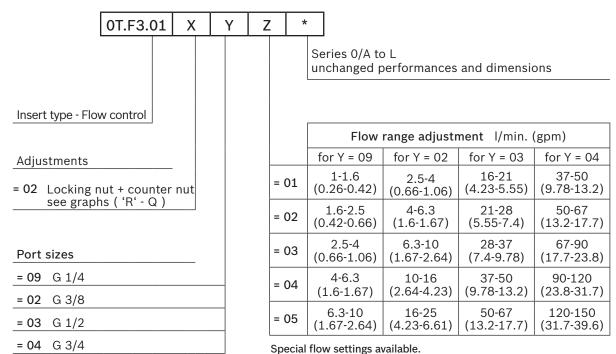








Ordering code



Please contact factory authorized representative for ordering code

Note: Metric versions available on request. Consult factory.

Туре	Material number	Type	Material number
0TF301020201000	R931002328		
0TF301020202000	R931002329		
0TF301020203000	R931000012		
0TF301020204000	R931000013		
0TF301020205000	R931000424		
0TF301020301000	R931002330		
0TF301020302000	R931002332		
0TF301020303000	R931002034		
0TF301020304000	R931000342		
0TF301020305000	R931002333		
0TF301020401000	R931000014		
0TF301020402000	R931002334		
0TF301020403000	R931002335		
0TF301020404000	R931002336		
0TF301020405000	R931002337		
0TF301020901000	R931000015		
0TF301020902000	R931002324		
0TF301020903000	R931002325		
0TF301020904000	R931002326		
0TF301020905000	R931002327		

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
compact-hydraulics-cv@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.