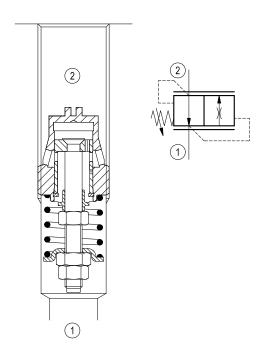
# Rexroth Bosch Group

RE 18329-80/01.11 1/2 Replaces: RE 00162-02/01.06

# 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

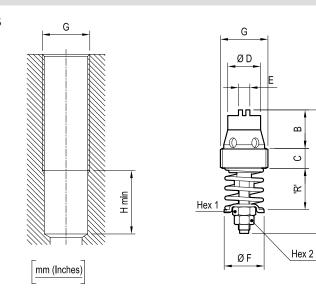
# Description

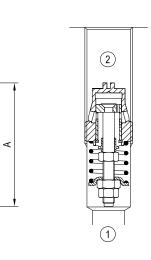
These valves can be used either as lowering control devices or as two ways flow regulators. In the firs option, they keep the lowering speed largely independent from the load, while, in the second option, they limit flow to the preset value which can be adjusted within the regulate flow path. On the 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	ure bar (psi)	315 (4500)				
Max. flow	l/min. (gpm)	see "Flow range adjustment" table and "Performance" graphs				
Fluid temperature ran	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"				
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt)				
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14				
Installation		No restrictions				
Other Technical Data	a	See data sheet RE 18350-50				

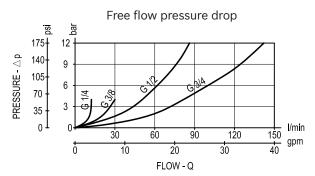
## **Dimensions**



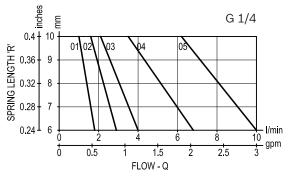


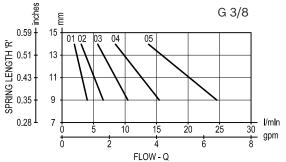
G	А	В	С	D	E	F	Hex 1	Hex 2	Н	Weight kg (lbs)	Inst. torque Nm (ft-lbs)	Flow max. I/min. (gpm)
G 1/4	38.3 (1.51)	12.5 (0.49)	7 (0.28)	10 (0.39)	4 (0.16)	10.3 (0.41)	5.5 (0.22)	4.5 (0.18)	22 (0.87)	0.012 (0.027)	6 (4)	10 (3)
G 3/8	43 (1.69)	13.5 (0.53)	7 (0.28)	11.5 (0.45)	4 (0.16)	14 (0.55)	7 (0.28)	6 (0.24)	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)

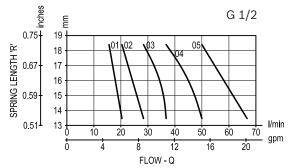
## Performance

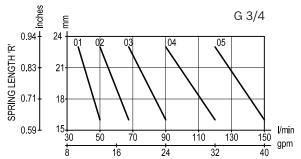


Performance curves: spring's length - flow (regulated flow) with nominal pressure of 50 bar (725 psi). Curves rapresent the obtained flow range related to orifices 01-02-03-04-05.

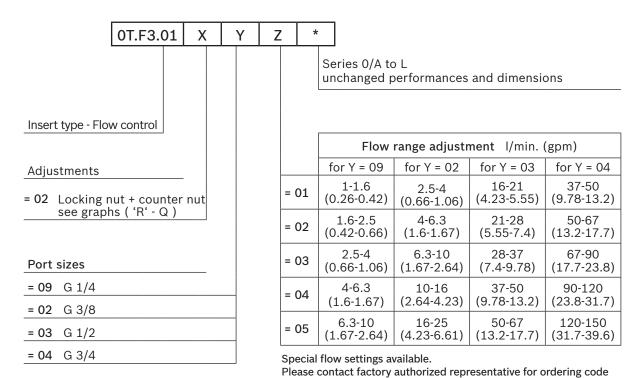








# Ordering code



Type Material number Material number Type OTF301020201000 R931002328 0TF301020202000 R931002329 OTF301020203000 R931000012 OTF301020204000 R931000013 0TF301020205000 R931000424 OTF301020301000 R931002330 0TF301020302000 R931002332 0TF301020303000 R931002034 OTF301020304000 R931000342 0TF301020305000 R931002333 OTF301020401000 R931000014 0TF301020402000 R931002334 OTF301020403000 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 cartridges@oilcontrol.com www.boschrexroth.com © 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.

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Subject to change.