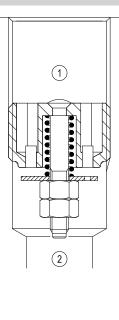
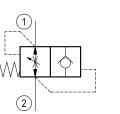


RE 18329-85/01.19 1/2 Replaces: RE 18329-85/01.18

Insert type Hose burst

VPN1





Hose burst check valve

Hose burst check valve

with orifice

0T.F4.01 - X - Y - Z

nominal regulated flow from the actuator.

Description

The valve is only supposed to be operated in case of hose failure. Should this circumstance occur, we strongly recommend to verify the integrity of the valve and eventually to replace it in the event that the pressure spike generated by the hose failure was such to damage permanently some valve components.

When the lowering speed exceeds preset value, as it might happen in case of hose failure, the flow is blocked. These valves should ideally be screwed directly into the actuator outlet port. Sealing

parts are superfinished and enable to lock the load in the position where the actuator is in the moment of hose failure. These valves can be supplied, on request, with an orifice on the disc, allowing an emergency lowering of the load. It is recommended to fit a flow regulator valve downstream the hose burst valve, at the end of the flexible hose, to control the lowering speed at the nominal value. The "R" gap must be adjusted to allow a flow at least 50% over the

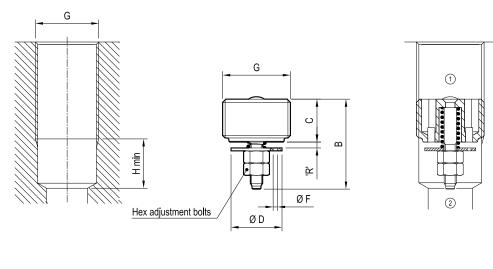
Technical data

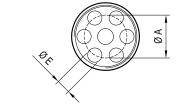
Note: available also as "Sleeve valve for line mounting"

See data sheets RE 18316-85, RE 18316-86, RE 18316-87 and RE 18316-88

Max. operating pressure bar (psi)	315 (4500)				
Max. flow I/min. (gpm)	see performance graphs ('R'-Q)				
Fluid temperature range °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 standard assemblies	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 of fluid contamination	Nominal value max. 10µm (NAS 8) ISO 4406 20/18/15				
Installation	No restrictions				
Other Technical Data	See data sheet RE 18350-50				

Dimensions

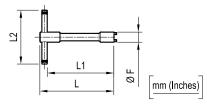




G* A	А	В	С	D	E	F	н	Hex	Weight kg (lbs)	Inst. torque Nm (ft-lbs)	Flow max. I/min. (gpm)	
											min.	max.
G 1/4	8.5 (0.34)	17.5 (0.69)	8 (0.32)	9.5 (0.37)	2.4 (0.1)	on request	11 (0.43)	5.5 (0.22)	0.005 (0.011)	2 (1.5)	4 (1)	25 (7)
G 3/8	10.5 (0.41)	23 (0.91)	10.5 (0.41)	12.5 (0.49)	3.5 (0.14)	on request	11 (0.43)	5.5 (0.22)	0.010 (0.022)	3 (2)	6 (2)	50 (13)
G 1/2	13 (0.51)	25 (0.98)	12 (0.47)	15 (0.59)	4.5 (0.18)	on request	15 (0.59)	7 (0.28)	0.020 (0.044)	4 (3)	16 (4)	80 (21)
G 3/4	16 (0.63)	30.5 (1.2)	17 (0.67)	18.5 (0.73)	6 (0.24)	on request	16 (0.63)	7 (0.28)	0.042 (0.093)	10 (7)	25 (7)	150 (40)

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

Fitting tool dimensions



mm (Inches)

Туре	F	L	L1	L2	Tool code	Material number
VPN1.G14	11.3 (0.45)	120 (4.72)	110 (4.33)	60 (2.36)	AVA18	R930009677
VPN1.G38	15 (0.59)	120 (4.72)	108 (4.25)	80 (3.15)	AVA18-01	R931002468
VPN1.G12	18.8 (0.74)	120 (4.72)	108 (4.25)	80 (3.15)	AVA18-02	R931002469
VPN1.G34	24 (0.95)	120 (4.72)	108 (4.25)	80 (3.15)	AVA18-03	R931002470

Performance

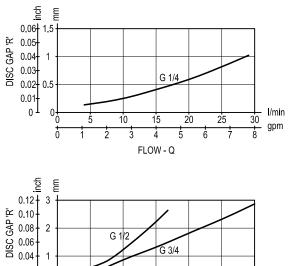
1 0.02 01

0

0

25

5



G 3/4

75

20 25 30 35

FLOW - Q

100

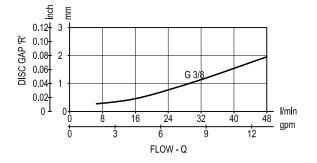
125

G 1/2

50

15

10



Performance curves R/flow (allowance can be ±10% from the curve)

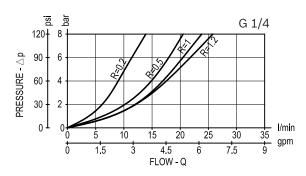
Flow performance from '1' to '2' depending on R-lenght

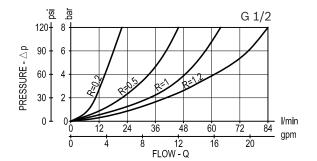
l/min

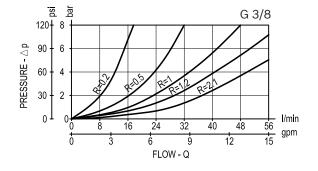
gpm

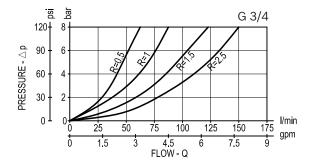
150

40









Ordering code

	V	V	7	*	7	
0T.F4.01	X	Y	Z			
					Series 0/A to L Inchanged performar	nces and dimensions
Insert type - Check, hose burst						
Adjustments					Orifice diameter (mm)	
			= 0	0	no orifice	
= 03 Locking nut + counter	nut		= C	1	0.5	
see graphs ('R' - Q)			= C	2	0.6	
			= C	3	0.7	
			= C	4	0.8	
Port sizes			= C	5	0.9	
= 09 G 1/4			= C	6	1	
= 02 G 3/8			= 0	7	1.2	
			= C	8	1.3	
= 03 G 1/2			= C	9	1.5	
= 04 G 3/4			= 1	0	1.9	
			= 1	1	2	

After assembling the standard type valves^{*} are preadjusted at approximately the following values: 0.5mm (0.02 in) for G1/4 and G3/8 0.7mm (0.03 in) for G1/2 and G3/4

Specific flow settings available.

Please contact factory authorized representative for related ordering code with a checked setting.

Standard type*	Material number	Туре	Material number
0TF401030200000	R931000017		
0TF401030300000	R901127828		
0TF401030400000	R901161819		
0TF401030900000	R931000021		

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.