RE 18316-87/10.09

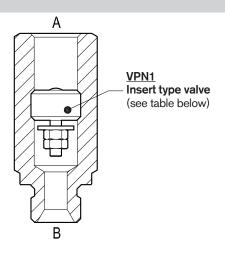
1/2

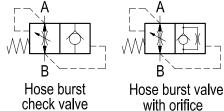
Hose burst insert type check valves

With male-female threaded sleeve



VPN-MF (G1/4 - G3/8)





OE.F4.01.02-Y-Z

Description

This valve is composed by a sleeve with an inserted "Hose Burst" steel made cartridge type VPN1 (refer to RE 18329-85). Flow is always allowed to pass from A to B according to the Δp curves included in the Performance diagrams. The reverse flow "B" to "A", or reaction flow, is unrestricted up to the pre-set value, above which the pressure drop across the floating disc will push the disc against the valve body, and will determine immediate closing of the line in a checked, leak free mode. The valve will remain closed (checked) from B to A until pressure is removed from the B, or until the A port pressure equalizes the B pressure. To help re-setting, or shorten the time for the disc to go back to the open position, the inserted cartridge can be supplied with the Extra Orifice "F" on request. The orifice diameter has to be specified when ordering (refer to table "Z"). Precision machining and hardening processes allow virtually leak free performance in the checked condition.

Technical data

VPN1 Code	Ports A-B	Pressure P max bar (psi)	Flow Q max I/min (gpm)	Weight kg (lbs)
0T.F4.01.03.09	G 1/4	315 (4500)	4-25 (1-7)	0.01 (0.02)
0T.F4.01.03.02	G 3/8	315 (4500)	6-50 (2-13)	0.03 (0.07)

Steel body, zinc plated

Special, Metric, UNF: sizes available on request.

Z

00

01

02

03

04

05

no orifice

0.5 (0.019)

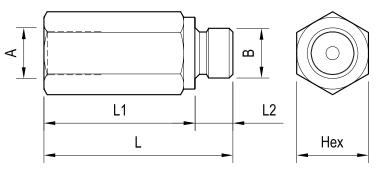
0.6 (0.023)

0.7 (0.027)

0.8 (0.031)

0.9 (0.035)

Dimensions



1 (0.039)

1.2 (0.047)

1.3 (0.051)

1.5 (0.059)

1.9 (0.074)

2 (0.078)

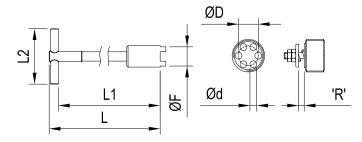
Ports size / Dimensions

	Ports	L	L1	L2	Hex	
Y	A-B	mm	mm	mm	mm	Sleeve code
	A-D	(inches)	(inches)	(inches)	(inches)	
00	G 1/4	50	40	10	19	OC.51.01.014
US	G 1/4	(1.97)	(1.58)	(0.39)	(0.75)	00.51.01.014
00	0.00	55	43	12	22	00 51 01 015
02	G 3/8	(2.17)	(1.69)	(0.47)	(0.87)	OC.51.01.015

Fitting tool dimension

VPN1 code thread	ØF	L	L1	L2	ØD	Ød	Inst. torque	Tool code
0T.F4.01.03.09	11.3	120	110	60	8.5	2.4	2 Nm	AVA18
G 1/4	(0.45)	(4.72)	(4.33)	(2.36)	(0.34)	(0.10)	(1.5)ft-lb	
0T.F4.01.03.02	15	120	108	80	10.5	3.5	3 Nm	AVA18-01
G 3/8	(0.59)	(4.72)	(4.25)	(3.15)	(0.41)	(0.14)	(2)ft-lb	

'R'= GAP corresponding to the maximum desired free flow.



Applications

In a variety of cases when oil flow must be immediately stopped in case of failure of an hose in order to prevent the load from falling freely. The smallest size G 1/4 is often employed in pressure pick-up lines from cylinders.

ORIFICE DIAMETER mm (inches)

06

07

08

09

10

11

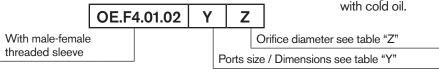
NOTE

The complete valve here shown is supplied with the Gap "R" Factory adjusted at 0.5 mm, corresponding to: Approx. (10 - 14) I/min, for size G 1/4, and Approx. (16 – 20) I/min, for size G 3/8, depending from oil viscosity. For special settings consult us.

Important: the pre-set R gap corresponds to the theoretical shut-off flow: please make sure that the selected shutoff flow is at least 50% higher than the actual Maximum Working Flow, in order to prevent inadvertent valve shutting

Type

Ordering code



Туре	Material number
OEF401020200	R931001646
OEF401020201	R932007183
OEF401020202	R932007184
OEF401020203	R932007185
OEF401020204	R932007186
OEF401020205	R932007187
OEF401020206	R932007188
OEF401020207	R932007189
OEF401020208	R932007190
OEF401020209	R932007191

Туре	Material number
OEF401020210	R932007192
OEF401020211	R932007193
OEF401020900	R931001641
OEF401020901	R932007173
OEF401020902	R932007174
OEF401020903	R932007175
OEF401020904	R932007176
OEF401020905	R932007177
OEF401020906	R932007217
OEF401020907	R932007178

OEF401020908	R932007179
OEF401020909	R932007180
OEF401020910	R932007181
OEF401020911	R932007182
	-

Material number

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Subject to change.