

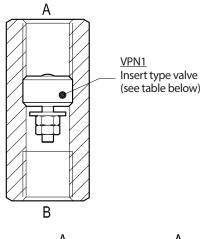
RE 18316-85/05.18 _{1/} Replaces: RE 18316-85/10.09

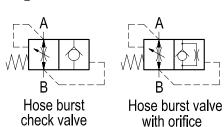
Hose burst insert type check valves With female threaded sleeve



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

OE.F4.01.01-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 l/min (gpm)	Weight kg (lbs)
0T.F4.01.03.09	G 1/4	315 (4568)	4-25 (1-7)	0.01 (0.02)
0T.F4.01.03.02	G 3/8	315 (4568)	6-50 (2-13)	0.03 (0.07)

Steel body, zinc plated

Special, Metric, UNF: sizes available on request.

ORIFICE DIAMETER mm (inches)

06

07

08

09

10

11

Dimensions

Ζ

00

01

02

03

04

05

no orifice

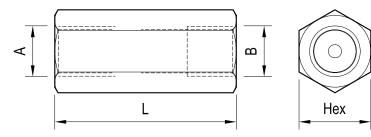
0.5 (0.019)

0.6 (0.023)

0.7 (0.027)

0.8 (0.031)

0.9 (0.035)



1 (0.039)

1.2 (0.047)

1.3 (0.051)

1.5 (0.059)

1.9 (0.074)

2 (0.078)

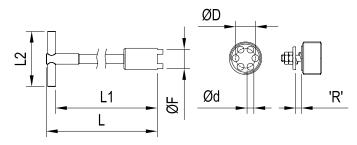
Ports size / Dimensions

Υ	Ports A-B	L mm (inches)	Hex mm (inches)	Sleeve code
09	G 1/4	48 (1.89)	19 (0.75)	OC.51.02.014
02	G 3/8	52 (2.05)	22 (0.87)	OC.51.02.010

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.

NOTE

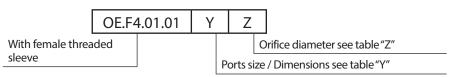
The complete valve here shown is supplied with the Gap "R" Factory adjusted at 0.5 mm, corresponding to: Approx. (10-14) l/min, for size G1/4, and Approx. (16-20) l/min, for size G 3/8, depending from oil viscosity.

For special settings consult us.

Type

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

Ordering code



Туре	Material number
OEF401010200	R931001665
OEF401010201	R932007227
OEF401010202	R932007228
OEF401010203	R932007229
OEF401010204	R932007230
OEF401010205	R932007231
OEF401010206	R931001669
OEF401010207	R932007232
OEF401010208	R932007233
OEF401010209	R932007234

Туре	Material number
OEF401010210	R932007235
OEF401010211	R932007236
VPN3.G14.00.000	R931001660
OEF401010901	R932007216
OEF401010902	R932007218
OEF401010903	R932007219
OEF401010904	R932007220
OEF401010905	R932007221
OEF401010906	R931001663
OEF401010907	R920207222

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OEF401010908	R932007223
OEF401010909	R932007224
OEF401010910	R932007225
OEF401010911	R932007226

Material number

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Subject to change.