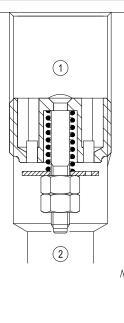
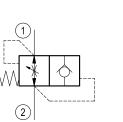


#### RE 18329-85/08.10 1/2 Replaces: RE 00162-02/01.06

# Insert type Hose burst

#### VPN1





Hose burst check valve

Hose burst check valve with orifice

(2)

### Description

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

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 nominal regulated flow from the actuator.

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.

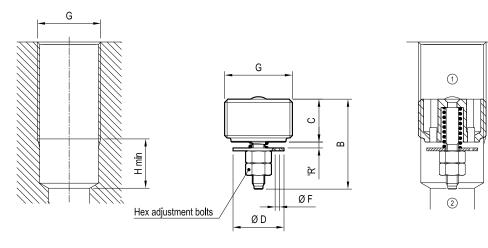
Note: available also as "Sleeve valve for line mounting"

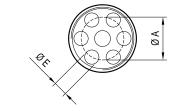
See data sheets RE 18316-85, RE 18316-86, RE 18316-87 and RE 18316-88

#### Technical data

Max. operating pressure	bar (psi)	315 (4500)			
Max. flow I/m	in. (gpm)	see performance graphs ('R'-Q)			
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)			
Installation torque Ni	m (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		See data sheet RE 18350-50			

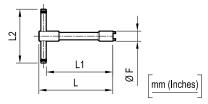
## Dimensions





G	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 (0.71)	6 (0.24)	on request	16 (0.63)	7 (0.28)	0.042 (0.093)	10 (7)	25 (7)	150 (40)

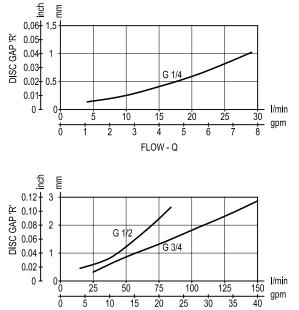
# Fitting tool dimensions



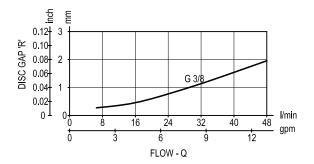
mm (Inches)

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	R931002467
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



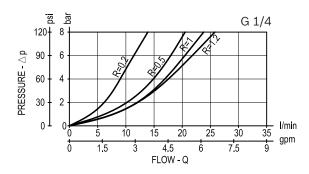
FLOW - Q

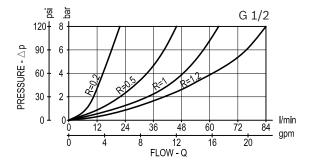


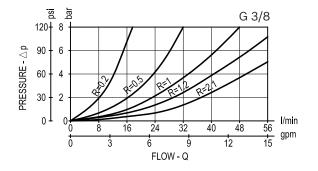
Performance curves R/flow (allowance can be  $\pm 10\%$  from the curve) After assembling the valve are preadjustated at the following values

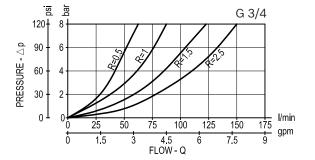
> 0.5 mm (0.02 in) for G 1/4 and G 3/8 0.7 mm (0.03 in) for G 1/2 and G 3/4

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









Special flow settings available. Please contact factory authorized representative for ordering code

## Ordering code

Insert type - Check, hose burstOrifice diameter (mm)= 03 Locking nut + counter nut see graphs ('R' - Q) $\bigcirc$ Orifice = 00 no orifice = 01 0.5 = 02 0.6 = 03 0.7 = 04 0.8 = 05 0.9 = 06 1 = 07 1.2 = 08 1.3 = 09 1.5 = 10 1.9		0T.F4.01	X	Y	Z	*		
Check, hose burst       Orifice diameter $(mm)$ Adjustments       = 00       no orifice         = 03       Locking nut + counter nut see graphs ('R' - Q)       = 00       no orifice         = 01       0.5       = 02       0.6         = 03       0.7       = 04       0.8         = 04       0.8       = 05       0.9         = 02       G 3/8       = 06       1         = 03       G 1/2       = 08       1.3         = 03       G 1/2       = 09       1.5								nces and dimensions
Adjustments(mm)= $03$ Locking nut + counter nut see graphs ('R' - Q)= $00$ no orifice= $01$ 0.5= $02$ 0.6= $03$ 0.7= $04$ 0.8= $04$ 0.8= $05$ 0.9= $06$ 1= $06$ 1= $06$ 1= $07$ 1.2= $08$ 1.3= $09$ 1.5		burst						
= 03  Locking nut + counter nut $= 00  no orifice $ $= 01  0.5 $ $= 02  0.6 $ $= 03  0.7 $ $= 04  0.8 $ $= 04  0.8 $ $= 05  0.9 $ $= 05  0.9 $ $= 06  1 $ $= 07  1.2 $ $= 08  1.3 $ $= 09  1.5$	Adiustments							
See graphs ('R' - Q) $= 01$ $0.3$ Port sizes $= 02$ $0.6$ $= 09$ G 1/4 $= 05$ $0.9$ $= 02$ G 3/8 $= 06$ $1$ $= 03$ G 1/2 $= 08$ $1.3$ $= 09$ $1.5$			-		=	00	no orifice	
Port sizes $= 03$ $0.7$ $= 09$ $6 1/4$ $= 05$ $0.9$ $= 02$ $6 3/8$ $= 06$ $1$ $= 03$ $6 1/2$ $= 08$ $1.3$ $= 09$ $6 1/2$ $= 09$ $1.5$		nut + counter	r nut		=	01	0.5	
Port sizes= $04$ $0.8$ = $09$ G 1/4= $05$ $0.9$ = $02$ G 3/8= $06$ 1= $03$ G 1/2= $08$ $1.3$ = $09$ $1.5$	see gra	phs ( 'R' - Q )			=	02	0.6	
Port sizes       = 05 $0.9$ = 09       G 1/4       = 06       1         = 02       G 3/8       = 07       1.2         = 03       G 1/2       = 08       1.3         = 09       1.5       = 09       1.5					=	03	0.7	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					=	04	0.8	
= 02 G 3/8       = 07       1.2         = 03 G 1/2       = 08       1.3         = 09       1.5	Port sizes				=	05	0.9	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	= 09 G 1/4				=	06	1	
= 03 G 1/2 = 09 1.5	= 02 G 3/8				=	07	1.2	
					=	08	1.3	
= 04 G 3/4 = 10 1.9	= 03 G 1/2				=	09	1.5	
	= 04 G 3/4				=	10	1.9	

= 11

2

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

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Subject to change.