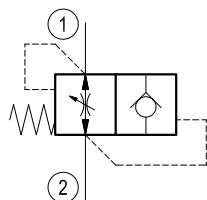
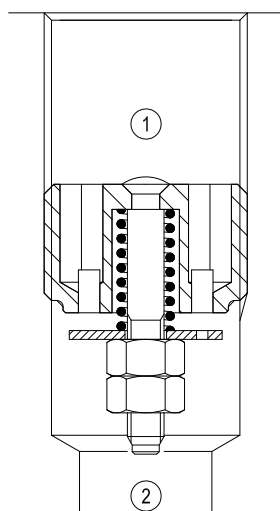


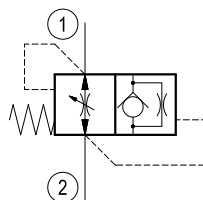
# Insert type Hose burst

VPN1

OT.F4.01 - X - Y - Z



Hose burst check valve



Hose burst check valve  
with orifice

## Description

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.

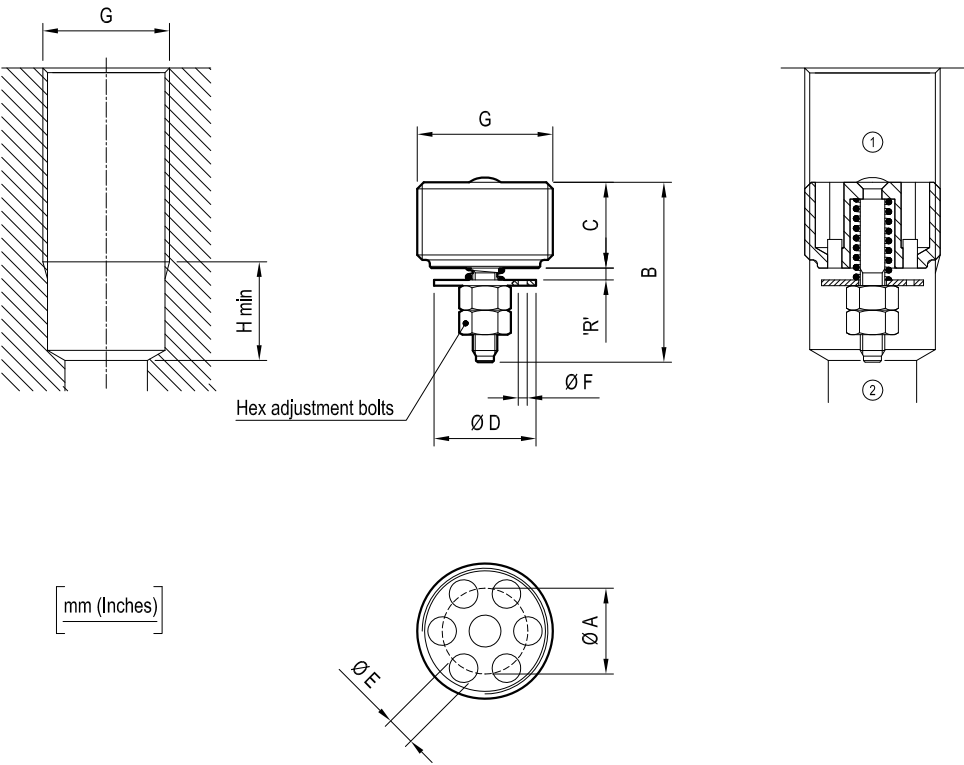
The valve is only supposed to be operated in case of hose failure. Should this circumstance occur, we strongly recommend to verify the integrity of the valve and eventually to replace it in the event that the pressure spike generated by the hose failure was such to damage permanently some valve components.

**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	l/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"
MTTFD		150 years see RE 18350-51
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 <sup>2</sup> /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

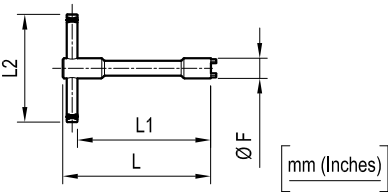
Dimensions



G *	A	B	C	D	E	F	H	Hex	Weight kg (lbs)	Inst. torque Nm (ft-lbs)	Flow max. l/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)

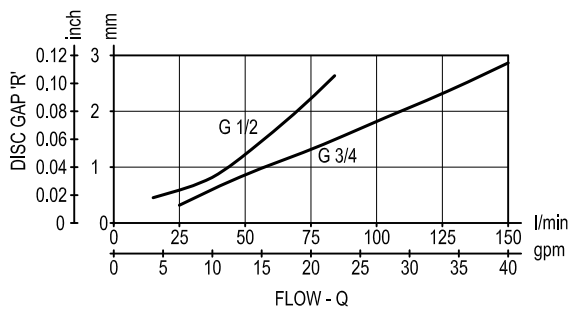
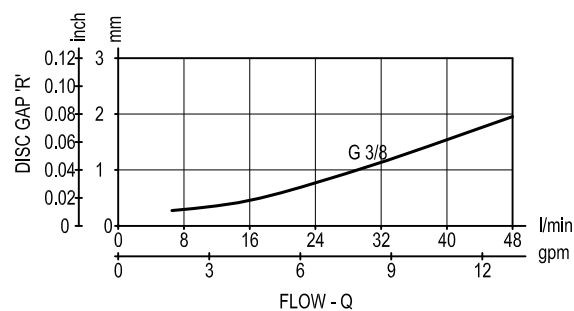
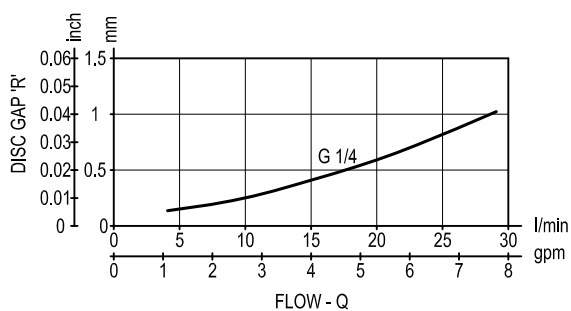
\* Thread in accordance with ISO 228-1     Note: Metric versions available on request. Consult factory.

Fitting tool dimensions



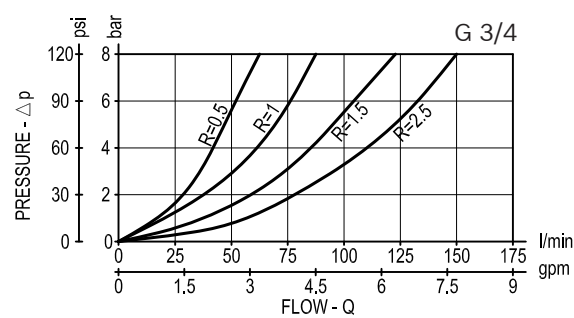
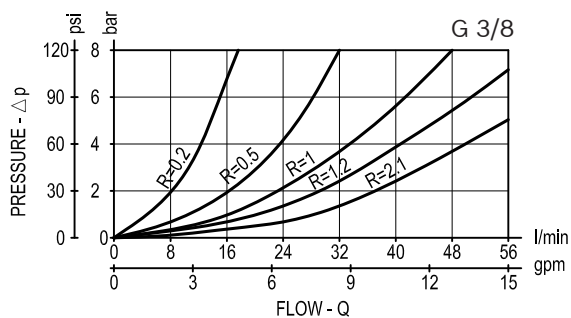
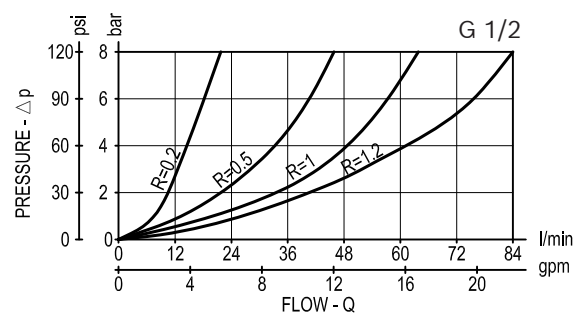
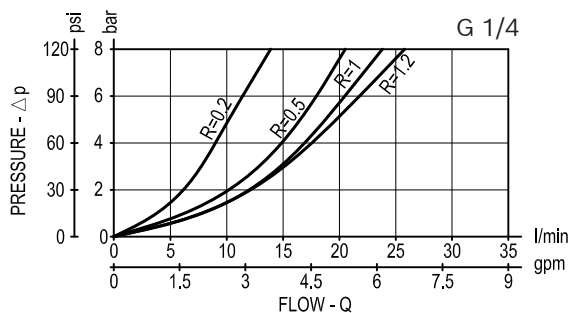
Type	F	L	L1	L2	Tool code	Material number
VPN1.G14	11.3 (0.45)	120 (4.72)	110 (4.33)	60 (2.36)	AVA18	R930009677
VPN1.G38	15 (0.59)	120 (4.72)	108 (4.25)	80 (3.15)	AVA18-01	R931002468
VPN1.G12	18.8 (0.74)	120 (4.72)	108 (4.25)	80 (3.15)	AVA18-02	R931002469
VPN1.G34	24 (0.95)	120 (4.72)	108 (4.25)	80 (3.15)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

## Performance



Performance curves R/flow (allowance can be  $\pm 10\%$  from the curve)

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



Ordering code

OT.F4.01	X	Y	Z	*	Series 0/A to L unchanged performances and dimensions
Insert type - Check, hose burst					
Adjustments					Orifice diameter (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
					= 05 0.9
Port sizes					= 06 1
= 09 G 1/4					= 07 1.2
= 02 G 3/8					= 08 1.3
= 03 G 1/2					= 09 1.5
= 04 G 3/4					= 10 1.9
					= 11 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	Type	Material number
OTF401030200000	R931000017		
OTF401030300000	R901127828		
OTF401030400000	R901161819		
OTF401030900000	R931000021		