

Tritium Compatible High Vacuum Bellow Valve

Engineered in Switzerland



HV Series Manual Valves

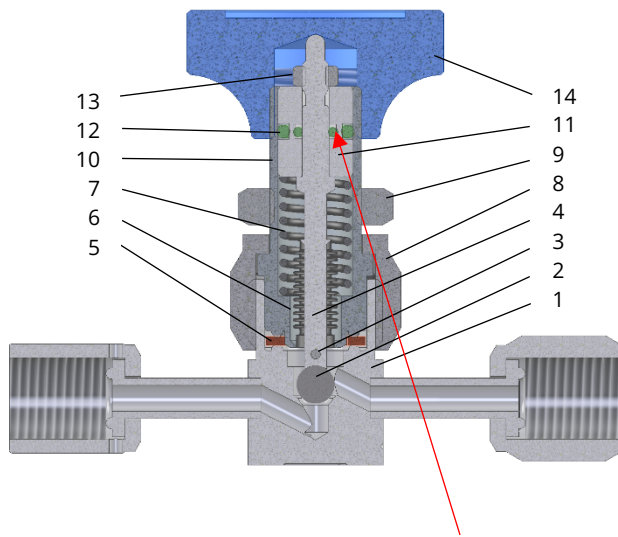
Leak rate	1x10 ⁻⁹ mbar*l/s
Maximum working pressure	40 bar
Working Temperature Range	- 50 to + 160 deg. C
End Connectors	Compatible to other brands
Dual Safety guaranteed by Material	Spindle O-Rings
Exchangable Spindle Stock	Stainless Steel (Copper seal)

Options:

- All Metal (All stainless Steel option available)
- Available in ¼ to 1.5Inch
- Compact Pneumatic Actuator
- Lockable Handwheel

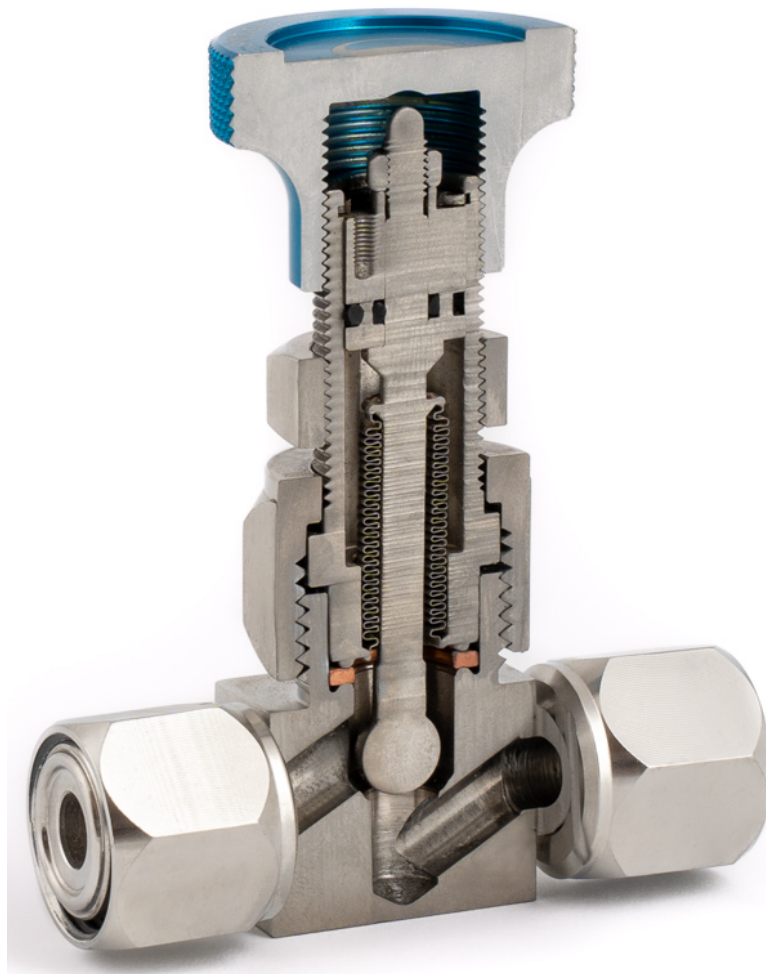


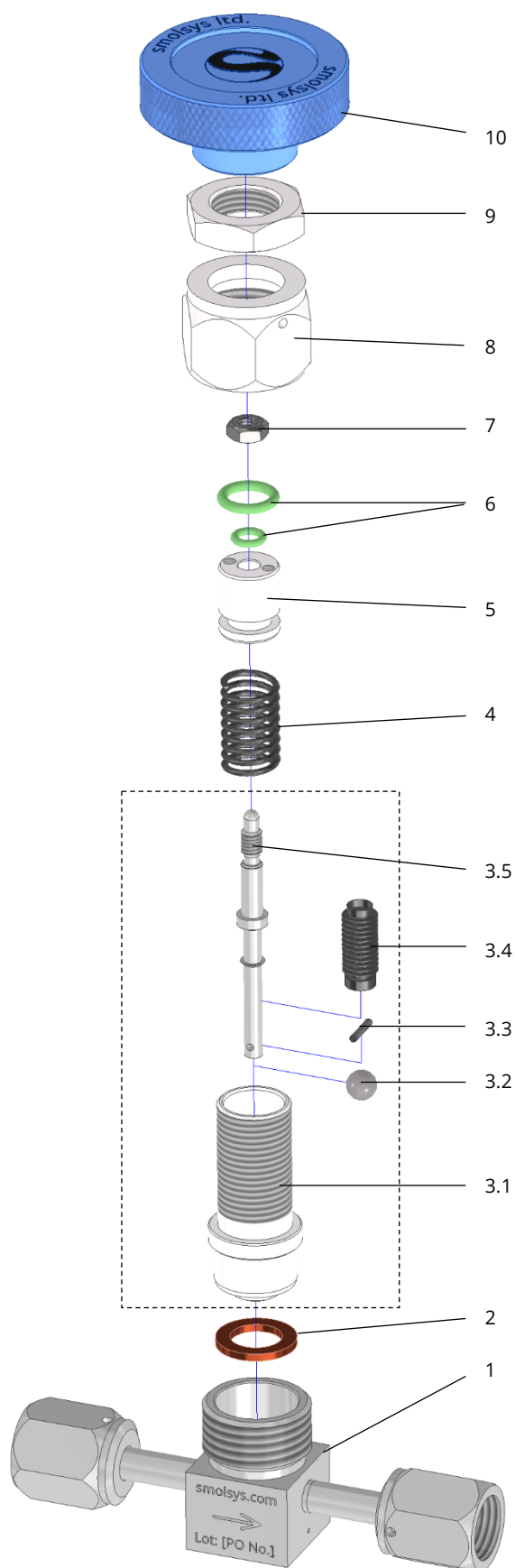
Material



Component		Material
1	Body	1.4404 - 316L
2	«Smolball»	1.3505 Chrome Steel
3	Opening stop	Stainless steel – A1
4	Stem	1.4404 - 316L
5	Gasket	Copper
6	Bellows	1.4541
7	Spring	1.4310
8	Union nut	1.4404 - 316L
9	Nut	1.4404 - 316L
10	Slider base	1.4404 - 316L
11	Sealing sleeve	1.4404 - 316L
12	O-Rings	FKM
13	Nut	Stainless steel – A2
14	Handle	Aluminium

The spindle O-Rings (No. 12) provide additional “blow out / blow in” prevention in the unlikely case of a bellow rupture.



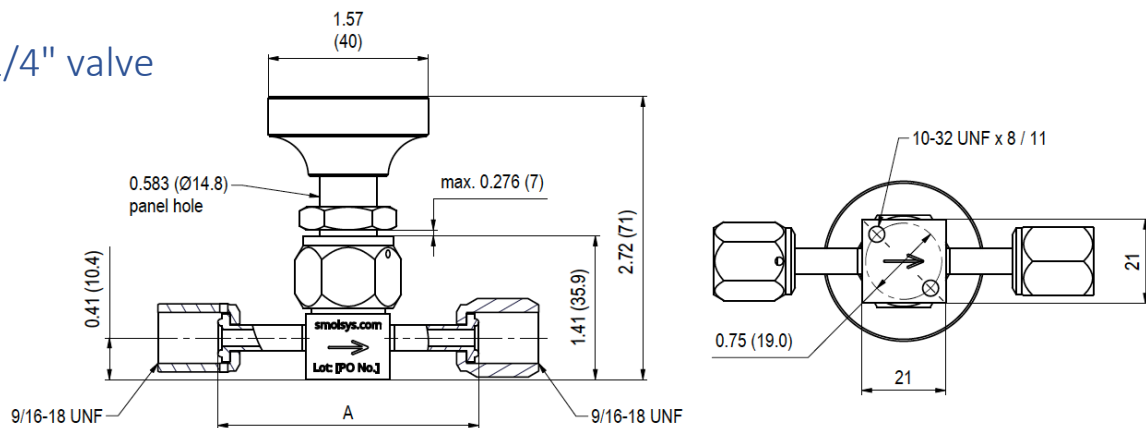


Valve Components

1	Body
2	Gasket
3.1	Slider base
3.2	«Smolball»
3.3	Opening stop*
3.4	Bellow
3.5	Stem
4	Spring
5	Sealing sleeve
6	O-Rings
7	Nut
8	Union nut
9	Nut
10	Handle with recess for marker

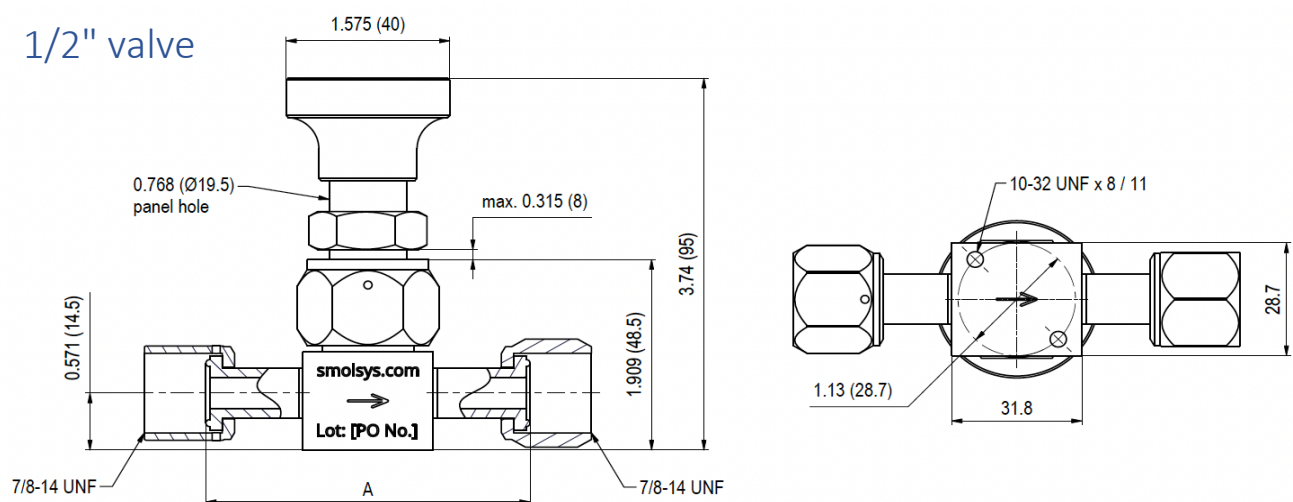
* Missing with the 1/2" valve

1/4" valve



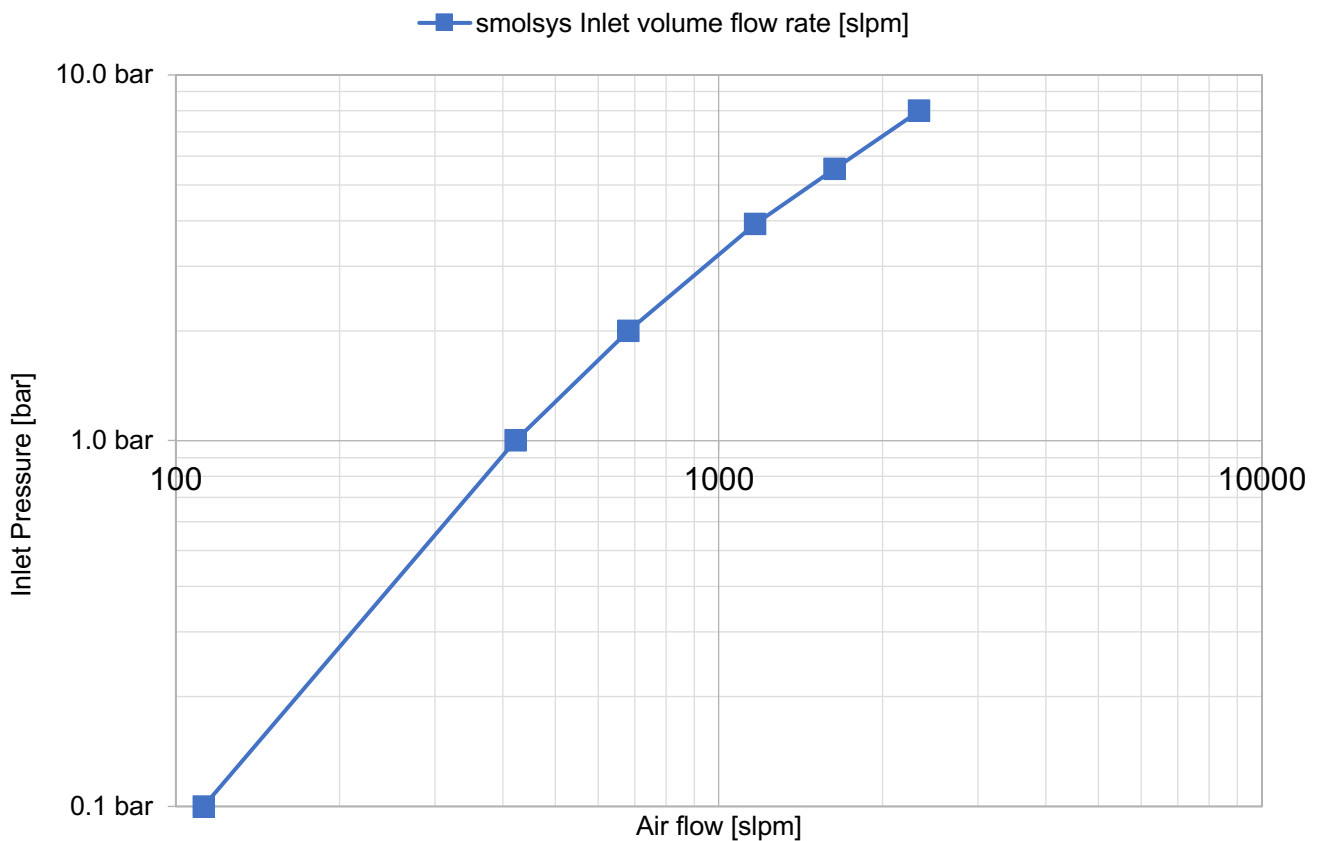
Article Number		Orifice in. (mm)		Cv	Dimension in. (mm)
		Body	Port		A
500100	1/4" Female	0.15 (3.8)	0.157 (4.0)		65.3
500101	1/4" Male				93.5

1/2" valve



Article Number		Orifice in. (mm)		Cv	Dimension in. (mm)
		Body	Port		A
500104	1/2" Female	0.303 (7.7)	0.318 (8.0)	1.1	79.2
500106	1/2" Male				

½ Inch Valve Flow Rate



Pressure Test*

Burst Pressure [bar]	Bellow	Safety O-Rings	Additional Safety Margin
¼" Valve	362	538	+48%
½" Valve	531	659	+24%

* Rupture Test conducted by Swiss PST Laboratory, Zwillikon