

1000 psig (68.9 bar) Type (VUBF-96P、VUBFD-96P Type)

Features

1. Precision-formed metal bellows provides reliable seal to atmosphere.
2. Sealed between body and bellows by gasket.
3. A positive seal is repeatedly possible with nonrotating spherical disk.
(Metal Seal Type, Soft Seal Type)
4. Panel and bottom mounting.
5. End Connections: **V-Lok** Tube Fittings 1/4, 3/8, 1/2



Metal Seal Type (VUBF-96P Type)

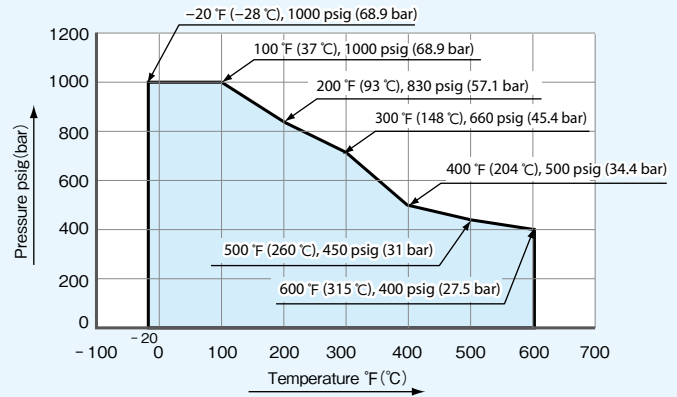
Technical Data

Temperature and Pressure Rating

Nominal Sizes	1/4	3/8	1/2
Temperature °F (°C)	-20 (-28) ~ 600 (315)		
Working Pressure psig (bar)	1000 (68.9)		

Outside Leakage, Seat Leakage

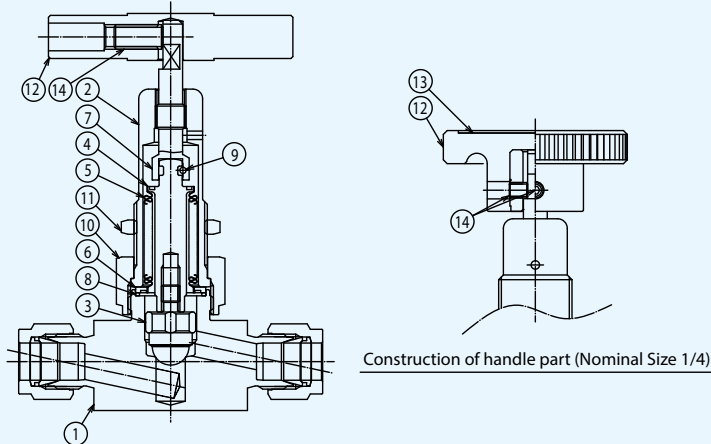
After Pressurise test, we do He leakage test.
We confirm at the time of test that the leakage amount is less than 4.0×10^{-10} Pa·m³/sec. (Vacuum process)



Applicable Fluid

Air, Nitrogen gas, Inert gas like Helium, and non - corrosive gas and liquid.

Materials of Construction



No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BONNET	ASTM A479 316
3	DISK ※	COBALT - BASED ALLOY + ASTM A479 316
4	STEM(1) ※	ASTM A479 316
5	BELLOWS ※	ASTM A240 321 or AMS5510 TYPE321
6	WELD RING ※	ASTM A479 316
7	STEM(2)	ASTM A582 416 or ASTM A582 410
8	GASKET ※	ASTM A580 316
9	STOP PIN	ASTM A276 304
10	BONNET NUT	ASTM A479 316
11	PANEL NUT	ASTM A276 304 or ASTM A276 316
12	HANDLE	Nom. Size 6.35: PHENOLIC RESIN + ZDC2 Nom. Size 9.52, 12.7: ALUMINUM A5056B or A6061B(T6)
13	NAME PLATE(Nominal Size 1/4)	POLYESTER
14	SET SCREW	ASTM A276 304

※ : Wetted Parts

Soft Seal Type (VUBFD-96P Type)

Technical Data

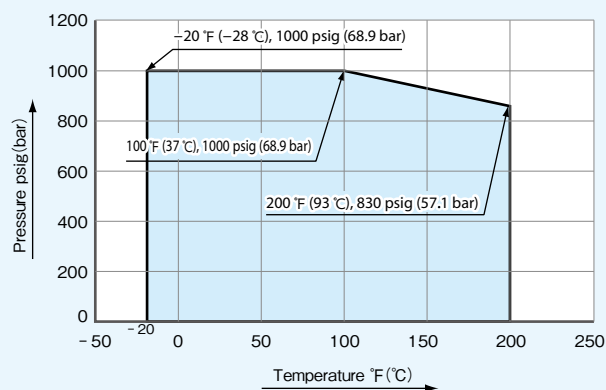
Temperature and Pressure Rating

Nominal Sizes	1/4	3/8	1/2
Temperature °F (°C)	- 20 (- 28) ~ 200 (93)		
Working Pressure psig (bar)	1000 (68.9)		

Outside Leakage, Seat Leakage

After Pressurise test, we do He leakage test.

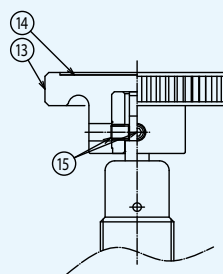
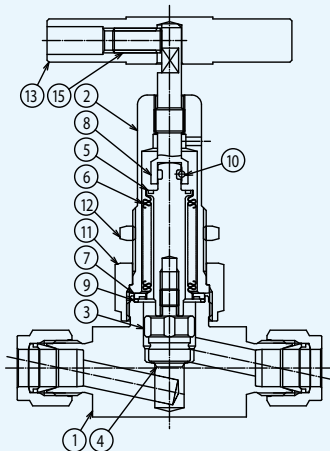
We confirm at the time of test that the leakage amount is less than 4.0×10^{-10} Pa·m³/sec. (Vacuum process)



Applicable Fluid

Air, Nitrogen gas, Inert gas like Helium, and non - corrosive gas and liquid.

Materials of Construction



Construction of handle part (Nominal Size 1/4)

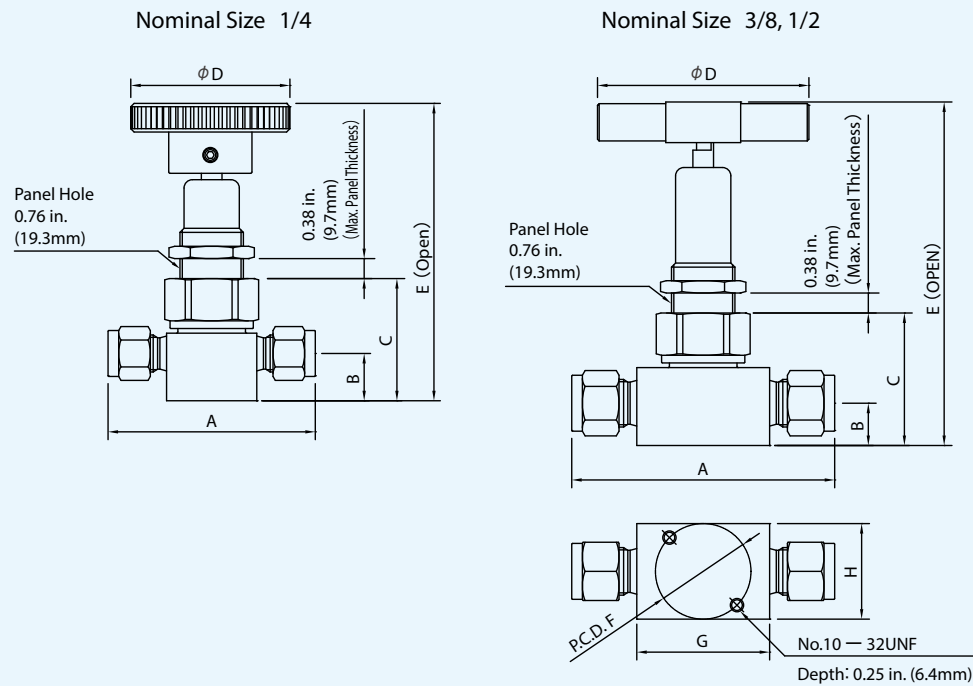
No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BONNET	ASTM A479 316
3	DISK ※	ASTM A479 316
4	DISK PACKING ※	PCTFE
5	STEM(1) ※	ASTM A479 316
6	BELLOWS ※	ASTM A240 321 or AMS 5510 TYPE 321
7	WELD RING ※	ASTM A479 316
8	STEM(2)	ASTM A582 416 or ASTM A582 410

※ : Wetted Parts

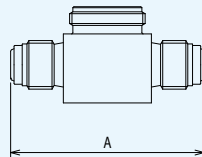
No.	Description	Materials
9	GASKET ※	ASTM A580 316
10	STOP PIN	ASTM A276 304
11	BONNET NUT	ASTM A276 304 or ASTM A276 316
12	PANEL NUT	ASTM A276 316
13	HANDLE	Nom. Size 6.35: PHENOLIC RESIN + ZDC2 Nom. Size 9.52, 12.7: ALUMINUM A5056B or A6061B(T6)
14	NAME PLATE(Size 6.35)	POLYESTER
15	SET SCREW	ASTM A276 304

Dimensions and Ordering Numbers

End Connection V-Lok Tube Fitting Type



End Connection UJR Tube Fitting Type



End Connections (Inlet/Outlet)	Nominal Diameter	Orifice inch (mm)	Dimensions inch (mm)								Ordering Numbers
			A	B	C	D	E	F	G	H	
V-Lok	1/4	0.16 (4.1)	2.46 (62.5)	0.56 (14.2)	1.45 (36.8)	1.88 (47.8)	3.64 (92.5)	1 (25.4)	1.06 (26.9)	1 (25.4)	VUBF-96P-6.35
											VUBFD-96P-6.35
	3/8	0.3 (7.6)	3.09 (78.5)	0.5 (12.7)	1.57 (39.9)	2.5 (63.5)	4.17 (106)	1.13 (28.7)	1.57 (39.9)	1.13 (28.6)	VUBF-96P-9.52
											VUBFD-96P-9.52
	1/2	3.3 (83.8)									VUBF-96P-12.7
											VUBFD-96P-12.7
UJR	1/4	0.16 (4.1)	2.24 (56.9)	0.44 (11.2)	1.45 (36.8)	1.88 (47.8)	3.64 (92.5)	1 (25.4)	1.02 (25.9)	1 (25.4)	VUBF-76P-6.35
											VUBFD-76P-6.35
	3/8	0.3 (7.6)	3 (76.2)	0.46 (11.7)	1.57 (39.9)	2.5 (63.5)	4.17 (106)	1.13 (28.7)	1.5 (38)	1.13 (28.7)	VUBF-76P-9.52
											VUBFD-76P-9.52

1000 psig (68.9 bar) Compact Type (VUBFH-96P Type)

Features

1. Precision-formed metal bellows provides reliable seal to atmosphere.
2. Welded bonnet to body provides perfect seal to atmosphere.
3. A positive seal is repeatedly possible with nonrotating spherical disk.
4. Panel and bottom mounting.
5. End Connections: **V-Lok** Tube Fittings 1/16, 1/4



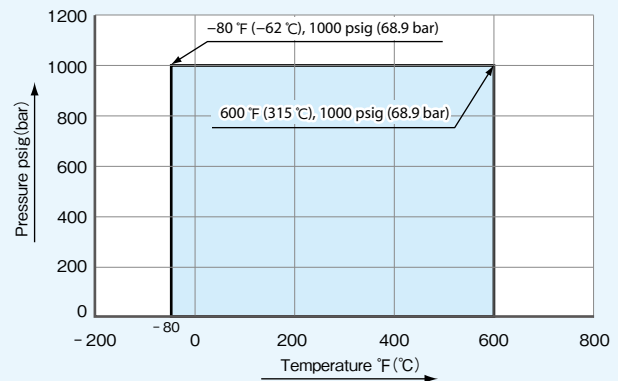
Technical Data

Temperature and Pressure Rating

Size	1/16	1/4
Temperature °F (°C)	-80 (-62) ~ 600 (315)	
Working Pressure psig (bar)	1000 (68.9)	

Outside Leakage, Seat Leakage

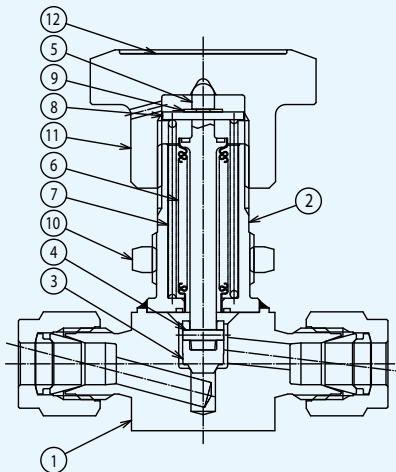
After Pressurise test, we do He leakage test.
We confirm at the time of test that the leakage amount is less than 4.0×10^{-10} Pa·m³/sec. (Vacuum process)



Applicable Fluid

Air, Nitrogen gas, Inert gas like Helium, and non - corrosive gas and liquid.

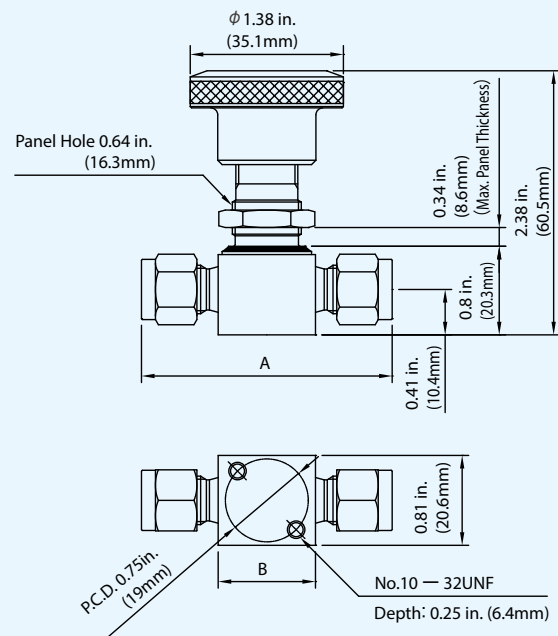
Materials of Construction



No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BONNET ※	ASTM A479 316
3	DISK ※	S17400 or ASTM A276 630
4	STOP PIN ※	SUS304
5	STEM ※	ASTM A479 316
6	BELLOWS ※	ASTM A240 321 or AMS 5510 TYPE 321
7	SPRING	S17700 or ASTM A276 631
8	WASHER	ASTM A240 316
9	E - RING	ASTM A276 304
10	PANEL NUT	ASTM A276 304 or ASTM A479 316
11	HANDLE	ALUMINUM A5056B or A6061B(T6)
12	NAME PLATE	TETORON

※ : Wetted Parts

Dimensions and Ordering Numbers



End Connections	Nominal Sizes	Orifice inch (mm)	Dimensions inch (mm)		Ordering Numbers
			A	B	
Inlet / Outlet	1/8	0.15 (3.8)	2.09 (53.1)	0.88 (22.3)	VUBFH - 96P - 3.2
	1/4		2.27 (57.7)		VUBFH - 96P - 6.35

700 psig (48.2 bar) Metering Needle Bellows Valves (VUBFN-94MP Type)

Features

1. Minutes flow control type disk.
2. Micrometer handles provide precise flow control repeatedly.
3. Precision- formed metal bellows provides reliable seal to atmosphere.
4. Valves open to maximum flow in six turns.
5. Slotted handle tops enable adjustments with screwdriver.
6. Sealed between body and bellows by gaskets.
7. Panel and bottom mounting.
8. End Connection: **V-Lok** Tube Fitting 1/4



Technical Data

Temperature and Pressure Rating

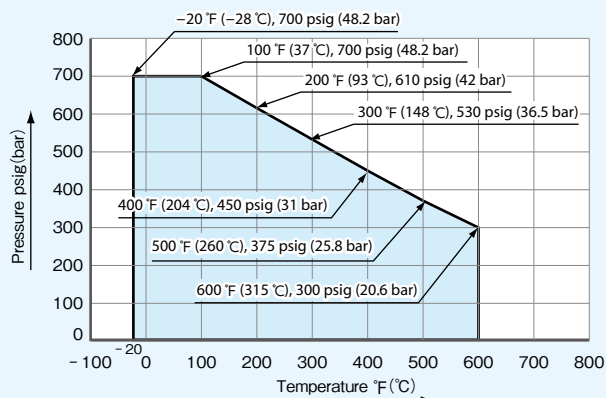
Nominal Size	1/4
Temperature °F(°C)	- 20 (- 28) ~ 600 (315)
Working Pressure psig (bar)	700 (48.2)

Outside Leakage, Seat Leakage

After Pressurise test, we do He leakage test.
We confirm at the time of test that the leakage amount is less than 4.0×10^{-10} Pa·m³/sec. (Vacuum process)

Flow Rate at the shut time

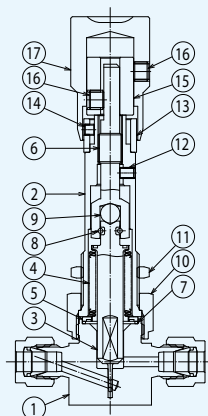
We adjust the flow rate of 9.86psig (0.68bar) Nitrogen gas
10-15cm³/min. (At the shipment time)



Applicable Fluid

Air, Nitrogen gas, Inert gas like Helium, and non - corrosive gas and liquid.

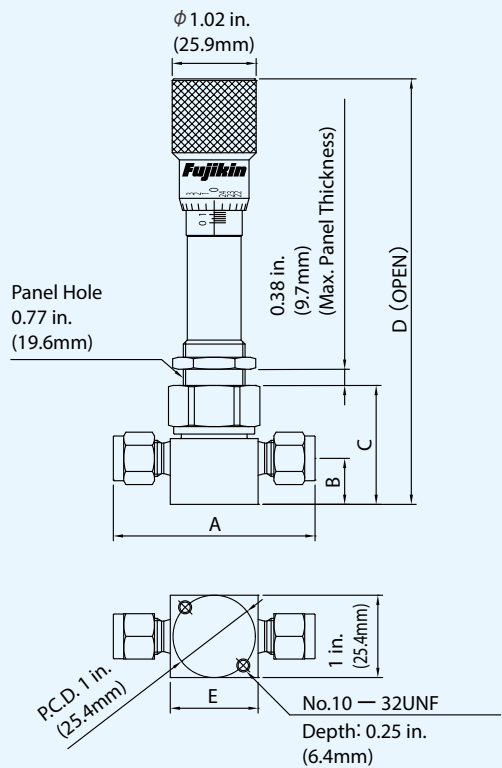
Materials of Construction



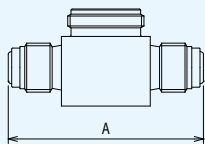
No.	Description	Materials
1	BODY ※	ASTM A479 316
2	BONNET	ASTM A479 316
3	DISK ※	ASTM A479 316
4	BELLOWS ※	ASTM A240 321 or AMS 5510 TYPE 321
5	WELD RING ※	ASTM A479 316
6	STEM	ASTM A582 416 or ASTM A582 410
7	GASKET ※	ASTM A580 316
8	STOP PIN	SUS304
9	BALL	SUS420C
10	BONNET NUT	ASTM A479 316
11	PANEL NUT	ASTM A276 304 or ASTM A276 316
12	SET SCREW	ASTM A276 304
13	INDICATOR SCALE	ASTM A582 303
14	SET SCREW	ASTM A276 304
15	BUSH	ASTM A582 303
16	SET SCREW	ASTM A276 304
17	HANDLE	ASTM A582 313

※ : Wetted Parts

Dimensions and Ordering Numbers



V-Lok Type



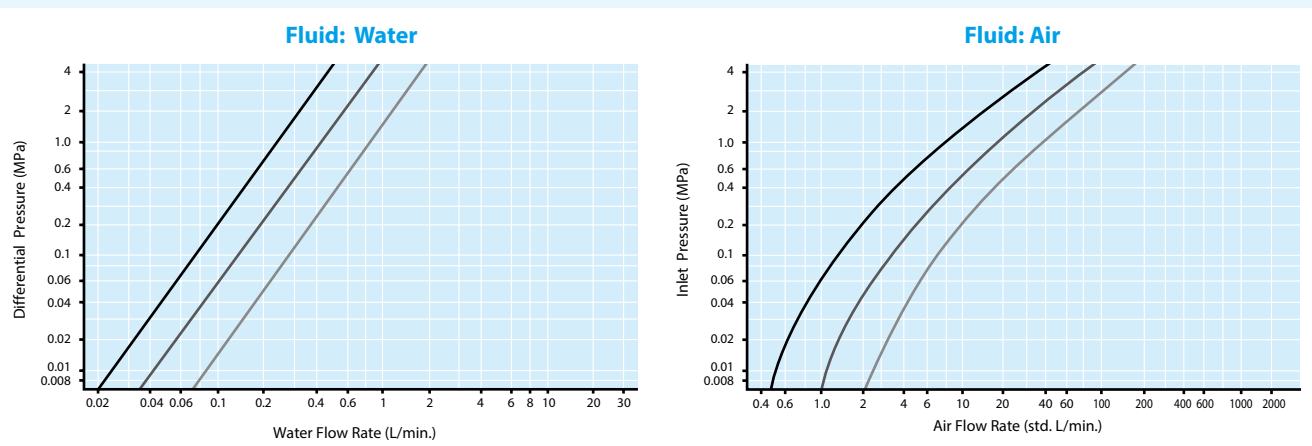
UJR Type



End Connections	Nominal Diameter	Orifice inch (mm)	Dimensions inch (mm)					Ordering Numbers
			A	B	C	D	E	
V-Lok	1/4	0.055 (1.4)	2.46 (62.5)	0.56 (14.2)	1.45 (36.8)	5.24 (133)	0.07 (27.1)	VUBFN-94MP-6.35
UJR	1/4	0.055 (1.4)	2.24 (56.9)	0.44 (11.2)	1.45 (36.8)	5.16 (131)	1.02 (25.9)	VUBFN-74MP-6.35

Flow Rate Curve & Cv Value

Flow Rate Curve



Cv Value

