

[17.2MPa] [20.6MPa] Instrument-use

Features

VUBVS, VUBVST-920 Series

1. Reduction the parts which may leak by one-piece seat
2. Self-compensation of the wear of a seat by the spring structure of a gland
3. Simple design with one piece body
4. Tight and smooth, low torque and easy operation
5. One-piece ball stem
6. Panel mountable
7. End Connections **New -Lok**, Rc, Female pipe (NPT)



Technical Data

Working Pressure, Temperature Rating

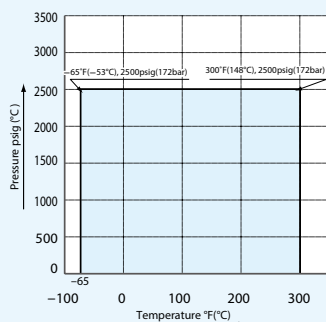
Series	Nominal Sizes	Orifice inch(mm)	Working Pressure psig(bar) ※	Temperature °F (°C)
VUBVS-920 Series	1/8B, 1/4B, 6mm, 8mm, 1/4in., 3/8in.	0.19(4.8)	3000(206)	-65 (-53) to +300 (+148)
	1/8B, 3mm, 6mm, 1/16in., 1/8in., 1/4in.	0.13(3.2)	2500(172)	
	3/8B, 10mm, 3/8in.	0.28(7.1)		
	1/2B, 12mm, 1/2in., 3/4in.	0.41(10.3)		
VUBVST-920 Series	3mm, 6mm, 1/16in., 1/8in., 1/4in.	0.13(3.2)	2500(172)	-65 (-53) to +300 (+148)

※ : Working Pressure: Please refer to following Temperature and Pressure Rating.

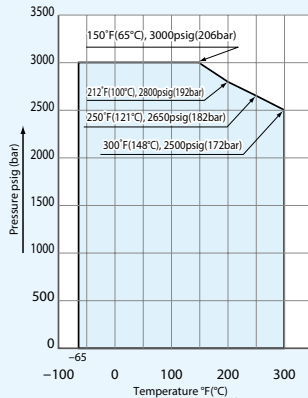
Temperature and Pressure Rating

VUBVS-920 Series

Nominal Sizes:
1/8B, 3mm, 6mm, 1/16in., 1/8in., 1/4in. (Orifice:0.13in)
3/8B, 10mm, 3/8in. (Orifice:0.28in)
1/2B, 12mm, 1/2in., 3/4in. (Orifice:0.41in)



Nominal Sizes:
1/8B, 1/4B, 6mm, 1/4in., 3/8in. (Orifice:0.19in)



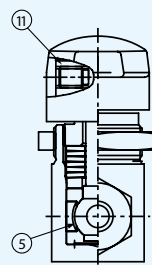
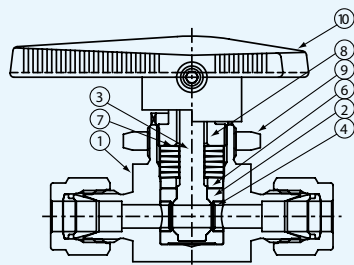
Note: If the end connection is **New -Lok** type, the working pressure may be low depending on the tube used.
For details, please refer to 1-1, 1-2 in the table of P12.

Applicable Fluid

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

Materials of Construction

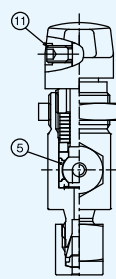
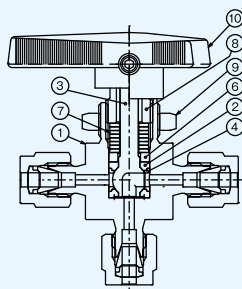
VUBVS-920 Series



No.	Description	Materials
1	BODY ※	ASTM A479 316
2	SEAT ※	PTFE
3	STEM ※	ASTM A276 316
4	RETAINER1 ※	SUS316L
5	RETAINER2 ※	SUS316L
6	GLAND	ASTM A276 316
7	DISH SPRING	S17700 or SUS631
8	PACKING GLAND SCREW	ASTM A276 316
9	PANEL NUT	ASTM A276 304 or 316
10	HANDLE	NYLON6 + SUS316L
11	SET SCREW	S17400 or SUS630/SUS304 (ORIFICE SMALL)

※ : Wetted Parts

VUBVST-920 Series



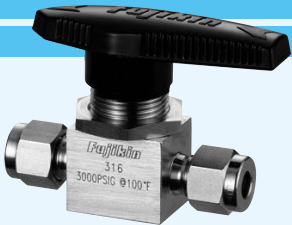
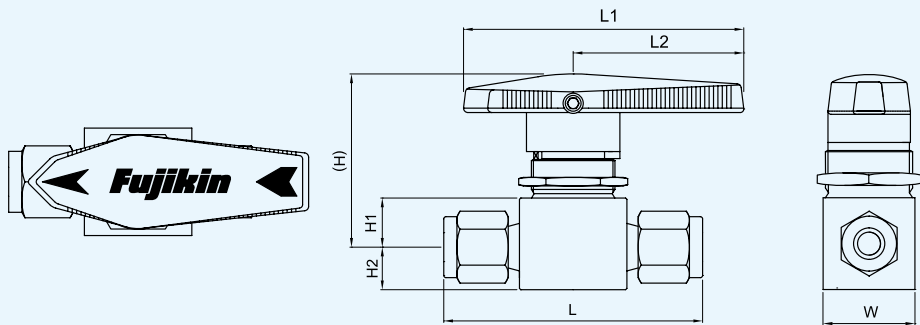
No.	Description	Materials
1	BODY ※	ASTM A479 316
2	SEAT ※	PTFE
3	STEM ※	ASTM A276 316
4	RETAINER1 ※	SUS316L
5	RETAINER2 ※	SUS316L
6	GLAND	ASTM A276 316
7	DISH SPRING	S17700 or SUS631
8	PACKING GLAND SCREW	ASTM A276 316
9	PANEL NUT	ASTM A276 304 or 316
10	HANDLE	NYLON6 + SUS316
11	SET SCREW	S17400 or SUS630/SUS304 (ORIFICE SMALL)

※ : Wetted Parts

Dimensions

Manual Valves

VUBV / VUBVS-920 Series

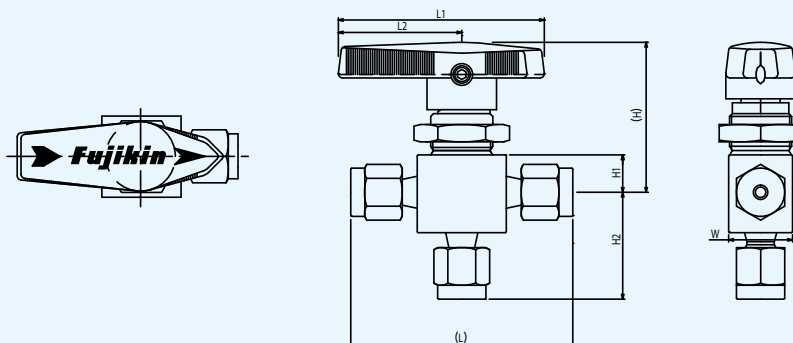


Connections	Nominal Sizes	Working Pressure psig (bar)	Orifice inch (mm)	Dimensions inch (mm)							Ordering Numbers	Handle color									
				L	L1	L2	H	H1	H2	W	VUBVS-920 Series	Black	Blue								
New V-Lok	1/16in. (1.6mm)	2500 (172)	0.05 (1.3)	1.68 (42.7)	1.87 (47.4)	1.12 (28.4)	1.36 (34.5)	0.34 (8.6)	0.28 (7.1)	0.58 (14.7)	VUBVS-920P-1.6-V	○	○								
	1/8in. (3.2mm)		0.09 (2.4)	2.01 (51.1)							VUBVS-920P-3.2-V	○	○								
	1/4in. (6.35mm)		0.13 (3.2)	2.21 (56.1)							VUBVS-920P-6.35-S-V	○	○								
	1/4in. (6.35mm)	3000 (206)	0.19 (4.8)	2.39 (60.7)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-920P-6.35-V	○	—								
	3/8in. (9.52mm)			2.58 (65.5)							VUBVS-920P-9.52-V	○	○								
	1/2in. (12.7mm)			2500 (172)							0.41 (10.3)	3.92 (99.6)	4.26 (108.2)	3 (76.2)	2.43 (61.7)	0.69 (17.5)	0.69 (17.5)	1.5 (38.1)	VUBVS-920P-12.7-V	—	○
	3/4in. (19.05mm)	VUBVS-920P-19.05-V	—		○																
	3mm	0.09 (2.4)	2.01 (51.1)		1.87 (47.4)	1.12 (28.4)	1.36 (34.5)	0.34 (8.6)	0.28 (7.1)	0.58 (14.7)									VUBVS-920P-3-V	○	○
	6mm	0.13 (3.2)	2.21 (56.1)																VUBVS-920P-6-S-V	○	○
	6mm	3000 (206)	0.19 (4.8)	2.39 (60.7)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-920P-6-V	○	—								
	8mm			2.46 (62.5)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-920P-8-V	○	—								
	Female NPT	1/8	2500 (172)	0.13 (3.2)	1.63 (41.4)	1.87 (47.4)	1.12 (28.4)	1.36 (34.5)	0.34 (8.6)	0.28 (7.1)	0.58 (14.7)	VUBVS-120PAN-S	○	○							
1/8		3000 (206)	0.19 (4.8)	2 (50.8)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-120PAN	○	—								
1/4				2.06 (52.3)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-120PBN	○	—								
Rc	1/8	3000 (206)	0.19 (4.8)	2 (50.8)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-120PA	○	—								
	1/4			2.06 (52.3)	2.52 (63.9)	1.53 (38.9)	1.47 (37.3)	0.44 (11.2)	0.38 (9.7)	0.78 (19.8)	VUBVS-120PB	○	—								

Dimensions

Manual Valves

VUBVST-920 Series



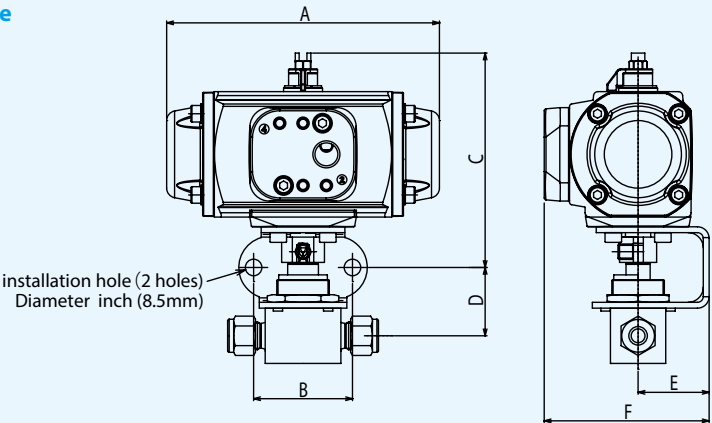
Connections	Nominal Sizes	Working Pressure psig (bar)	Orifice inch (mm)	Dimensions inch (mm)							Ordering Numbers	Handle color	
				L	L1	L2	H	H1	H2	W		Black	Blue
New V-Lok	1/16in. (1.6mm)	2500 (172)	0.05 (1.3)	1.68 (42.7)	1.87 (47.4)	1.12 (28.4)	1.36 (34.5)	0.34 (8.6)	0.81 (20.6)	0.58 (14.7)	VUBVST-920P-1.6-V	—	○
	1/8in. (3.2mm)		0.09 (2.4)	2.01 (51.1)					0.97 (24.6)		VUBVST-920P-3.2-V	—	○
	1/4in. (6.35mm)		0.13 (3.2)	2.21 (56.1)					1.07 (27.2)		VUBVST-920P-6.35-S-V	—	○
	3mm		0.09 (2.4)	2.01 (51.1)	1.87 (47.4)	1.12 (28.4)	1.36 (34.5)	0.34 (8.6)	0.97 (24.6)	0.58 (14.7)	VUBVST-920P-3-V	—	○
	6mm		0.13 (3.2)	2.21 (56.1)					1.07 (27.2)		VUBVST-920P-6-S-V	—	○
Female NPT	1/8		0.13 (3.2)	1.63 (41.4)	1.87 (47.4)	1.12 (28.4)	1.36 (34.5)	0.34 (8.6)	0.81 (20.6)	0.58 (14.7)	VUBVST-120PAN-S	○	○

Dimensions

Automated Valves

APR-VUBV / VUBVS-920 Series

Spring Return Type



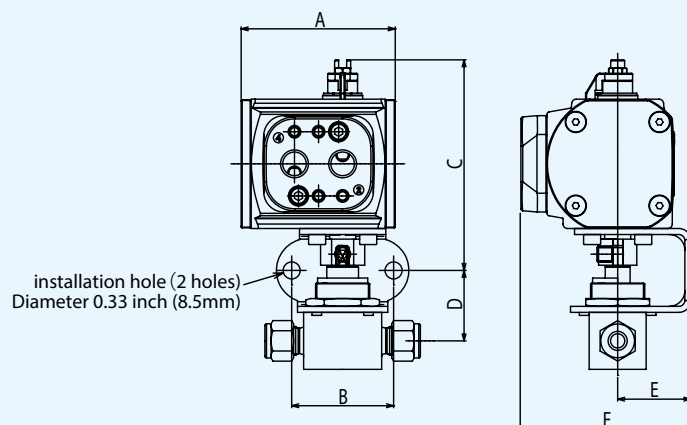
Connections	Nominal Sizes	Actuator Type	Dimensions inch (mm)						Ordering Numbers
			A	B	C	D	E	F	APR-VUBVS-920 Series
New V-Lok	1/4in. (6.35mm)	AC2S	5.52 (140.2)	2 (50.8)	4.18 (106.1)	1.1 (27.9)	1.44 (36.5)	3.66 (93)	APR-VUBVS-920P-6.35-V
	3/8in. (9.52mm)				4.33 (109.9)	1.38 (35.1)			APR-VUBVS-920P-9.52-V
	6mm	AC2S	5.52 (140.2)	2 (50.8)	4.18 (106.1)	1.1 (27.9)	1.44 (36.5)	3.66 (93)	APR-VUBVS-920P-6-V
	8mm								APR-VUBVS-920P-8-V
Rc	1/8	AC2S	5.52 (140.2)	2 (50.8)	4.18 (106.1)	1.1 (27.9)	1.44 (36.5)	3.66 (93)	APR-VUBVS-120PA-S
	1/8								APR-VUBVS-120PA
	1/4								APR-VUBVS-120PB

Dimensions

Automated Valves

APDM-VUBV / VUBVS-920 Series

Double Acting Type



Connections	Nominal Sizes	Actuator Type	Dimensions inch (mm)						Ordering Numbers
			A	B	C	D	E	F	APDM-VUBVS-920 Series
New V-Lok	1/4in. (6.35mm)	AC1	3.02 (76.8)	2 (50.8)	3.98 (101.1)	1.1 (27.9)	1.44 (36.5)	3.33 (84.7)	APDM-VUBVS-920P-6.35-V
	3/8in. (9.52mm)				4.13 (104.9)	1.38 (35.1)			APDM-VUBVS-920P-9.52-V
	6mm	AC1	3.02 (76.8)	2 (50.8)	3.98 (101.1)	1.1 (27.9)	1.44 (36.5)	3.33 (84.7)	APDM-VUBVS-920P-6-V
	8mm								APDM-VUBVS-920P-8-V
Female NPT	1/4	AC1	3.02 (76.8)	2 (50.8)	3.98 (101.1)	1.1 (27.9)	1.44 (36.5)	3.33 (84.7)	APDM-VUBVS-120PBN
Rc	1/4	AC1	3.02 (76.8)	2 (50.8)	3.98 (101.1)	1.1 (27.9)	1.44 (36.5)	3.33 (84.7)	APDM-VUBVS-120PB

Ordering Information

APR – VUBVST – 920P – 6.35 – S – B – KL – V
 ① – ② ③ ④ ⑤ – ⑥ ⑦ ⑧ – ⑨ – ⑩ – ⑪ – ⑫ – ⑬

- ① Actuator Type
 APR : Spring Back Type
 APDM : Double Acting Type
 Blank: Manual Type

- ② Valve Series

- ③ Body Material
 Stainless Steel

- ④ Valve Type
 BVS: One-piece Seat
 Ball Valves

- ⑤ Valve Type
 Blank: 2-Way Valve
 T: 3-Way Valve

- ⑥ End Connections
 1: Thread Type
 9: **New V-Lok** Type

- ⑦ Working Pressure
 20 : 206 bar

- ⑧ Panel Mount Type

- ⑨ Connection Sizes
 1.6 : **New V-Lok** 1/16in.
 3.2 : **New V-Lok** 1/8in.
 6.35 : **New V-Lok** 1/4in.
 9.52 : **New V-Lok** 3/8in.
 12.7 : **New V-Lok** 1/2in.
 19.05 : **New V-Lok** 3/4in.
 3 : **New V-Lok** 3mm
 6 : **New V-Lok** 6mm
 8 : **New V-Lok** 8mm
 10 : **New V-Lok** 10mm
 12 : **New V-Lok** 12mm
 Note: In the case of Thread Type,
 "-" is not added before ⑨.

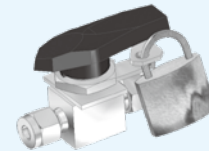
- ⑩ Orifice
 Blank : Standard
 S : Small

AN : 1/8 NPT
 BN : 1/4 NPT
 CN : 3/8 NPT
 DN : 1/2 NPT
 A : Rc 1/8
 B : Rc 1/4
 C : Rc 3/8
 D : Rc 1/2

- ⑪ Handle Color

Handle Color	Code
Blue	-B
Green	-G
Orange	-YR
Red	-RE
Yellow	-Y
Black	-

- ⑫ Key Lock
 Blank : without Key Lock
 KL : with Key Lock



- ⑬ **New V-Lok** Type