

Fd-Lok®





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Fal-Lok®

Contents

01 V15 Series 15,000 psi (1034 bar)

06 V20 Series 20,000 psi (1379 bar)

11 V30 Series 30,000 psi (2068 bar)

15 V60 Series 60,000 psi (4137 bar)

V15 Series 15,000 psi (1034 bar)

Features

- Tubing size from 1/4" to 1/2".
- Non-rotating stem and bar stock body design.
- Metal-to-metal seating achieves ideal shut off, longer stem/seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material, RPTFE glass and Graphite also available.
- The location of packing is under the thread of valve stem.
- The material of packing gland and stem sleeve have been selected to achieve reduced handle torque and extended thread cycle life.
- The material of body is 316 SS, The material of stem is 17-4PH SS.
- Options for Vee or Regulating stem tips.
- The locking device of packing gland is reliable.
- Five flow patterns are available.
- For In-line 2-way Needle Valves, contact authorized FD-LOK representative.

Technical Data

Tube O.D. in.	Orifice in. (mm)	Cv	Pressure @ Room Temperature psi (bar)
1/4	0.188 (4.77)	0.65	15,000 (1034)
3/8	0.250 (6.35)	0.95	15,000 (1034)
1/2	0.3.75 (9.53)	1.90	15,000 (1034)

Notes

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• The value of Cv shown are for 2-way straight valve pattern.

The value of Cv for 2-way angle pattern will be increase about 50 (Base on water)

Extreme Temperatures

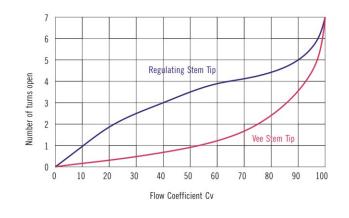
PTFE is the standard packing material for FD-LOK Needle Valve; RPTFE glass, Graphite and Extend stuffing box valve with graphite also available.

Normal Precise Metering valve with PTFE packing can be operated to $450^{\circ}F$ (232 $^{\circ}C$).

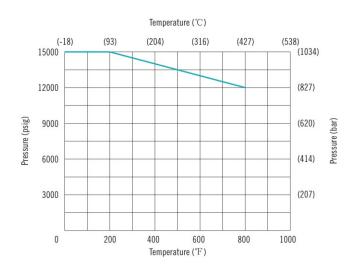
Normal Precise Metering valve with RPTFE glass packing can be operated to $600^{\circ}\mathrm{F}$ (316 $^{\circ}\mathrm{C}$).

Normal Precise Metering valve with Graphite packing can be operated to 800 $^{\circ}\mathrm{F}$ (427 $^{\circ}\mathrm{C}$).

Flow Data at 100°F (38°C)



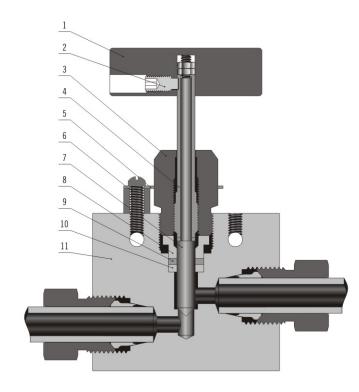
Pressure & Temperature



V15 Series 15,000 psi (1034 bar)

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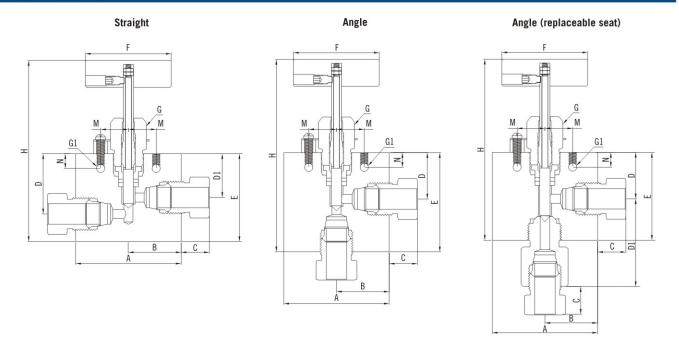
Standard Materials of Construction



Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless steel
2	Handle Screw	Stainless steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless steel
7	Stem	17-4PH/A564
8	Packing Ring	C63000/B150
9	Packing	PTFE/RPTFE/GRAPHITE
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
	Lubricant	Molybdenum disulfide

V15 Series 15,000 psi (1034 bar)

Dimensions



Dimensions (Straight)

Ordering Tube OD	Orifice	A	В	С	D	D1	E	F	G	G1	Н	M	N	Thickness		
Number	in.	in. (mm)	in. (mm)													
V15SS-S4-1	1/4	0.188 (4.77)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	1.62 (41.15)	1.19 (30.23)	2.00 (50.8)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.50 (114.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)	
V15SS-S6-1	3/8	0.250 (6.35)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.62 (41.15)	1.19 (30.23)	2.00 (50.8)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.50 (114.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)	
V15SS-S8-1	1/2	0.375 (9.53)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	2.38 (60.45)	1.75 (44.45)	2.88 (73.15)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	5.95 (151.4)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)	

Dimensions (Angle)

Ordering		Orifice	Α	В	С	D	D1	Е	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V15SS-S4-2	1/4	0.188 (4.77)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	1.19 (30.23)		2.19 (55.63)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S6-2	3/8	0.250 (6.35)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.19 (30.23)		2.19 (55.63)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S8-2	1/2	0.375 (9.53)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	1.75 (44.45)		3.38 (85.85)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	6.45 (163.8)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)

Dimensions (Angle/replaceable seat)

Ordering Tube OD	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V15SS-S4-3	1/4	0.188 (4.77)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	1.19 (30.23)	1.88 (47.75)	2.25 (57.15)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.75 (146.1)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S6-3	3/8	0.250 (6.35)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.19 (30.23)	2.19 (55.62)	2.25 (57.15)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.75 (146.1)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S8-3	1/2	0.375 (9.53)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	1.75 (44.45)	2.50 (63.5)	3.25 (82.55)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	7.51 (190.8)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)

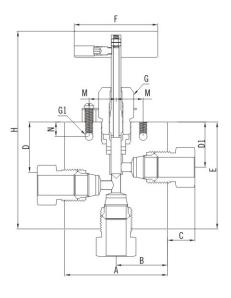
V15 Series 15,000 psi (1034 bar)

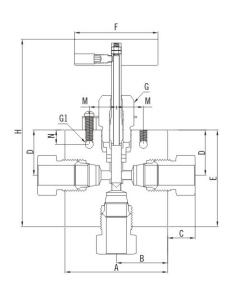
Dimensions

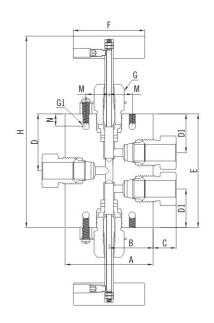
3-way/2 on pressure

3-way/1 on pressure

3-way/2 stem manifold







Dimensions (3-way/2 on pressure)

Ordering	0		Α	В	С	D	D1	E	F	G	G1	Н	M	N	Thickness		
Number				in. (mm)													
V15SS-S4-4	1/4	0.188 (4.77)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	1.62 (41.15)	1.19 (30.23)	2.62 (66.55)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.18 (131.6)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)		
V15SS-S6-4	3/8	0.250 (6.35)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.62 (41.15)	1.19 (30.23)	2.62 (66.55)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.18 (131.6)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)		
V15SS-S8-4	1/2	0.375 (9.53)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	2.38 (60.45)	1.75 (44.45)	3.62 (91.95)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	6.7 (170.2)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)		

Dimensions (3-way/1 on pressure)

Ordering Tube OD Orifice	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness	
Number	in.	in. (mm)							in. (m	m)					
V15SS-S4-5	1/4	0.188 (4.77)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	1.19 (30.23)		2.43 (61.72)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S6-5	3/8	0.250 (6.35)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.19 (30.23)		2.43 (61.72)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S8-5	1/2	0.375 (9.53)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	1.75 (44.45)		3.38 (85.85)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	6.45 (163.8)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)



V15 Series 15,000 psi (1034 bar)

Dimensions

Dimensions (3-way/2 stem manifold)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V15SS-S4-6	1/4	0.188 (4.77)	2.00 (50.8)	1.00 (25.4)	0.44 (11.2)	1.69 (42.93)	1.19 (30.23)	3.38 (85.85)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.94 (150.9)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S6-6	3/8	0.250 (6.35)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.69 (42.93)	1.19 (30.23)	3.38 (85.85)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.94 (150.9)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V15SS-S8-6	1/2	0.375 (9.53)	2.50 (63.5)	1.25 (31.75)	0.53 (13.5)	2.56 (65.02)	1.75 (44.45)	5.12 (130.1)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	8.20 (208.3)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)

Note:

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- 1. G is the drill dimension of packing gland mounting hole.
- 2. G1 is the dimension of bracket mounting hole.
- 3. Panel mounting drill size: 0.22" all valves.
- 4. H is the dimension of stem in closed position.
- All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or FD-LOK.

V20 Series 20,000 psi (1379 bar)

Features

- Tubing size from 1/4" to 1".
- Non-rotating stem and bar stock body design.
- · Easy to assemble and replace packing.
- Metal-to-metal seating achieves ideal shut off, longer stem/seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material, RPTFE glass, Graphite and Extend stuffing box valve with Graphite also available.
- Extend stuffing box valve with of Graphite can be operated to 1200°F (649°C).
- The material of packing gland and stem sleeve have been selected to achieve reduced handle torque and extended thread cycle life.
- The material of body is 316 SS, The material of stem is 17-4PH SS.
- Options for Vee or Regulating stem tips.
- The location of packing is under the thread of valve stem.
- The locking device of packing gland is reliable.
- Five flow patterns are available.

Technical Data

Tube O.D. in.	Orifice in. (mm)	Cv	Pressure @ Room Temperature psi (bar)			
1/4	0.125 (3.18)	0.31	20,000 (1379)			
3/8	0.219 (5.56)	0.75	20,000 (1379)			
9/16	0.312 (7.92)	1.30	20,000 (1379)			
3/4	0.438 (11.13)	2.50	20,000 (1379)			
1	0.562 (14.27)	4.40	20,000 (1379)			

Notes:

• The value of Cv shown are for 2-way straight valve pattern.

The value of Cv for 2-way angle pattern will be increase about 50 (Base on water)

Extreme Temperatures

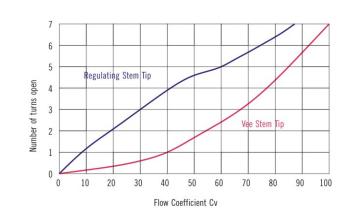
PTFE is the standard packing material for FD-LOK Needle Valve; RPTFE glass, Graphite and Extend stuffing box valve with graphite also available.

Normal Needle valve with PTFE packing can be operated to $450^{\circ}F$ ($232^{\circ}C$). Normal Needle valve with RPTFE glass packing can be operated to $600^{\circ}F$ ($316^{\circ}C$).

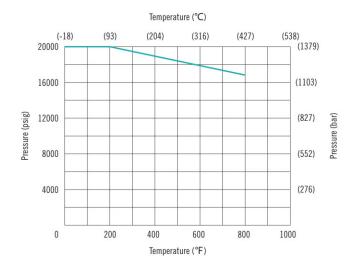
Normal Needle valve with Graphite packing can be operated to 800°F (427°C).

Extend stuffing box valve with of Graphite can be operated to 1200° F (649° C).

Flow Data at 100°F (38°C)



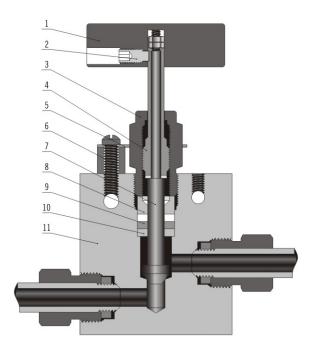
Pressure & Temperature



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V20 Series 20,000 psi (1379 bar)

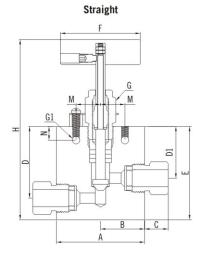
Standard Materials of Construction

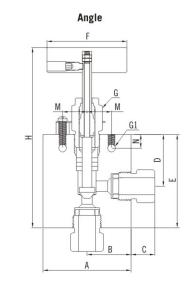


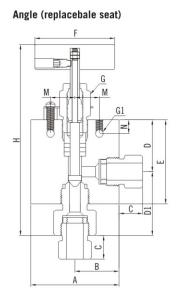
Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless steel
2	Handle Screw	Stainless steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless steel
7	Stem	17-4PH/A564
8	Packing Ring	C63000/B150
9	Packing	PTFE/RPTFE/GRAPHITE/Extend stuffing box valve with of Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
	Lubricant	Molybdenum disulfide

V20 Series 20,000 psi (1379 bar)

Dimensions







Dimensions (Straight)

								7,000							
Ordering			Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	Tube Size in.	in. (mm)							in. (m	m)					
V20SS-S4-1	1/4	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.38 (9.65)	1.62 (41.15)	1.19 (30.23)	2.00 (50.8)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.69 (119.1)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S6-1	3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	0.47 (11.94)	1.62 (41.15)	1.19 (30.23)	2.00 (50.8)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.69 (119.1)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S9-1	9/16	0.312 (7.92)	2.50 (63.5)	1.25 (31.75)	0.53 (13.46)	2.38 (60.45)	1.75 (44.45)	2.88 (73.15)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	5.93 (150.9)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)
V20SS-S12-1	3/4	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	0.62 (15.75)	3.00 (76.2)	2.25 (57.15)	3.75 (95.25)	10.25 (260.4)	1.12 (28.45)	0.44 (11.18)	7.00 (177.8)	0.88 (22.35)	0.63 (16.0)	1.38 (35.05)
V20SS-S16-1	1	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	0.63 (16.00)	3.75 (95.25)	2.81 (71.37)	4.63 (117.6)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	9.00 (228.6)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

Dimensions (Angle)

Outside Ordering Diameter	Orifice	Α	В	С	D	D1	Е	F	G	G1	Н	М	N	Thickness	
Number	Tube Size in.	in. (mm)							in. (m	m)					
V20SS-S4-2	1/4	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.38 (9.65)	1.19 (30.23)		2.44 (61.9)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.81 (122.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S6-2	3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	0.47 (11.94)	1.19 (30.23)		2.44 (61.9)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.81 (122.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S9-2	9/16	0.312 (7.92)	2.50 (63.5)	1.25 (31.75)	0.53 (13.46)	1.75 (44.45)		3.38 (85.85)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	6.43 (163.6)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)
V20SS-S12-2	3/4	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	0.62 (15.75)	2.25 (57.15)		4.25 (108.0)	10.25 (260.4)	1.12 (28.45)	0.44 (11.18)	7.50 (190.5)	0.88 (22.35)	0.63 (16.0)	1.38 (35.05)
V20SS-S16-2	1	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	0.63 (16.00)	2.81 (71.37)		5.12 (130.1)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	9.00 (228.6)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)



V20 Series 20,000 psi (1379 bar)

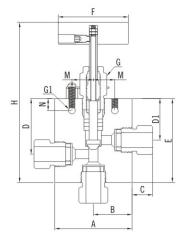
V20 Series 20,000 psi (1379 bar)

Dimensions (Angle/replaceable seat)

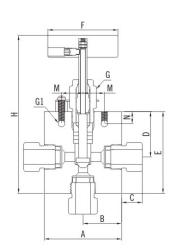
Ordering	Outside Diameter	Orifice	A	В	C	D	D1	E	F	G	G1	Н	M	N	Thickness
Number	Tube Size in.	in. (mm)							in. (m	m)					
V20SS-S4-3	1/4	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.38 (9.65)	1.19 (30.23)	2.13 (53.98)	2.25 (57.15)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.75 (146.1)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S6-3	3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	0.47 (11.94)	1.19 (30.23)	2.13 (53.98)	2.25 (57.15)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.75 (146.1)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S9-3	9/16	0.312 (7.92)	2.50 (63.5)	1.25 (31.75)	0.53 (13.46)	1.75 (44.45)	2.50 (63.5)	3.13 (79.38)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	7.43 (186.7)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)
V20SS-S12-3	3/4	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	0.62 (15.75)	2.25 (57.15)	3.44 (87.38)	4.25 (108.0)	10.25 (260.4)	1.12 (28.45)	0.44 (11.18)	9.00 (228.6)	0.88 (22.35)	0.63 (16.0)	1.38 (35.05)
V20SS-S16-3	1	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	0.63 (16.00)	2.69 (68.33)	4.38 (111.1)	5.25 (133.4)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	11.00 (279.7)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

Dimensions

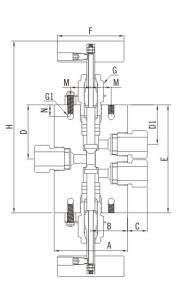
3-way/2 on pressure



3-way/1 on pressure



3-way/2 stem manifold



Dimensions (3-way/2 on pressure)

Ordering	Outside Diameter	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	M	N	Thickness
Number	Tube Size in.	in. (mm)							in. (m	m)					
V20SS-S4-4	1/4	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.38 (9.65)	1.63 (41.28)	1.19 (30.23)	2.63 (66.68)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S6-4	3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	0.47 (11.94)	1.63 (41.28)	1.19 (30.23)	2.63 (66.68)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	5.00 (127.0)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S9-4	9/16	0.312 (7.92)	2.50 (63.5)	1.25 (31.75)	0.53 (13.46)	2.38 (60.45)	1.75 (44.45)	3.63 (92.08)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	6.51 (165.6)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)
V20SS-S12-4	3/4	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	0.62 (15.75)	3.00 (76.2)	2.25 (57.15)	4.63 (117.5)	10.25 (260.4)	1.12 (28.45)	0.44 (11.18)	7.88 (200.0)	0.88 (22.35)	0.63 (16.0)	1.38 (35.05)
V20SS-S16-4	1	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	0.63 (16.00)	3.75 (95.25)	2.81 (71.37)	5.88 (149.4)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	9.75 (247.9)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

Dimensions

Dimensions (3-way/1 on pressure)

Ordering	Outside Diameter	Orifice	Α	В	С	D	D1	Е	F	G	G1	Н	М	N	Thickness
Number	Tube Size in.	in. (mm)							in. (m	m)					
V20SS-S4-5	1/4	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.38 (9.65)	1.19 (30.23)		2.44 (61.9)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.81 (122.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S6-5	3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	0.47 (11.94)	1.19 (30.23)		3.38 (85.85)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	4.81 (122.3)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S9-5	9/16	0.312 (7.92)	2.50 (63.5)	1.25 (31.75)	0.53 (13.46)	1.75 (44.45)		5.13 (130.2)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	6.31 (160.5)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)
V20SS-S12-5	3/4	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	0.62 (15.75)	2.25 (57.15)		6.50 (165.1)	10.25 (260.4)	1.12 (28.45)	0.44 (11.18)	7.50 (190.5)	0.88 (22.35)	0.63 (16.0)	1.38 (35.05)
V20SS-S16-5	1	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	0.63 (16.00)	2.81 (71.37)		7.50 (190.5)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	9.09 (231.1)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

Dimensions (3-way/2 stem manifold)

Ordering	Outside Diameter	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	Tube Size in.	in. (mm)							in. (m	m)					
V20SS-S4-6	1/4	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.38 (9.65)	1.69 (42.85)	1.19 (30.23)	3.38 (85.73)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	8.13 (206.4)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S6-6	3/8	0.219 (5.56)	2.00 (50.8)	1.00 (25.4)	0.47 (11.94)	1.69 (42.85)	1.19 (30.23)	3.38 (85.73)	3.00 (76.2)	0.75 (19.05)	0.22 (5.59)	8.13 (206.4)	0.62 (15.75)	0.38 (9.65)	0.75 (19.05)
V20SS-S9-6	9/16	0.312 (7.92)	2.50 (63.5)	1.25 (31.75)	0.53 (13.46)	2.56 (65.07)	1.75 (44.45)	5.13 (130.2)	4.00 (101.6)	1.00 (25.4)	0.34 (8.64)	11.31 (287.6)	0.69 (17.53)	0.50 (12.7)	1.00 (25.4)
V20SS-S12-6	3/4	0.438 (11.13)	3.00 (76.2)	1.50 (38.1)	0.62 (15.75)	3.00 (76.2)	2.25 (57.15)	6.50 (165.1)	10.25 (260.4)	1.12 (28.45)	0.44 (11.18)	13.0 (330.2)	0.88 (22.35)	0.63 (16.0)	1.38 (35.05)
V20SS-S16-6	1	0.562 (14.27)	4.12 (104.6)	2.06 (52.3)	0.63 (16.00)	3.75 (95.25)	2.81 (71.37)	7.50 (190.5)	10.25 (260.4)	1.62 (41.15)	0.56 (14.22)	15.44 (292.4)	1.25 (31.75)	1.13 (28.7)	1.75 (44.45)

- G is the drill dimension of packing gland mounting hole.
 G1 is the dimension of bracket mounting hole.

- 3. Panel mounting drill size: 0.22" all valves.

 4. H is the dimension of stem in closed position.
- 5. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or FD-LOK.

V30 Series 30,000 psi (2068 bar)

Features

- Tubing size from 1/4" to 9/16".
- Non-rotating stem and bar stock body design.
- Easy to assemble and replace packing
- Metal-to-metal seating achieves ideal shut off, longer stem/seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
- PTFE is the standard packing material, RPTFE glass and Graphite also available.
- Extend stuffing box valve with of Graphite can be operated to 1200° F (649 $^{\circ}$ C).
- The material of packing gland and stem sleeve have been selected to achieve reduced handle torque and extended thread cycle life.
- The material of body is 316 SS, The material of stem is 17-4PH SS.
- Options for Vee or Regulating stem tips.
- The locking device of packing gland is reliable.
- Five flow patterns are available.

Technical Data

Tube O.D. in.	Orifice in. (mm)	Rated Cv	Pressure @ Room Temperature psi (bar)
1/4	0.094 (2.39)	0.12	30,000 (2068)
3/8	0.125 (3.18)	0.23	30,000 (2068)
9/16	0.125 (3.18)	0.33	30,000 (2068)

Notes:

• The value of Cv shown are for 2-way straight valve pattern.

The value of Cv for 2-way angle pattern will be increase about 50 (Base on water)

Extreme Temperatures

PTFE is the standard packing material for FD-LOK Needle Valve; RPTFE glass, Graphite and Extend stuffing box valve with graphite also available.

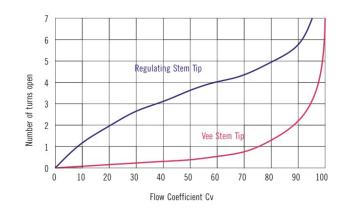
Normal Needle valve with PTFE packing can be operated to 450°F (232°C).

Normal Needle valve with RPTFE glass packing can be operated to $600^\circ\! F$ (316 $^\circ\! C$).

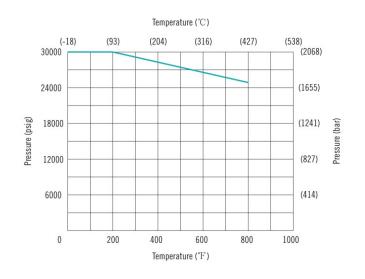
Normal Needle valve with Graphite packing can be operated to $800^{\circ}F$ (427 $^{\circ}C$).

Extend stuffing box valve with of Graphite can be operated to 1200°F (649°C).

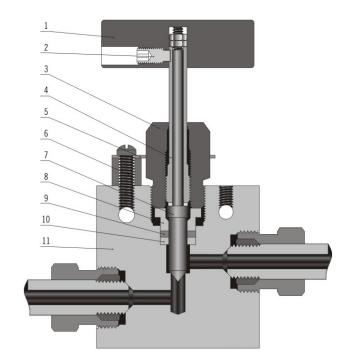
Flow Data at 100°F (38°C)



Pressure & Temperature



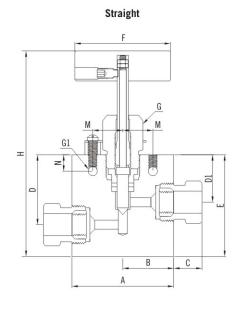
Standard Materials of Construction

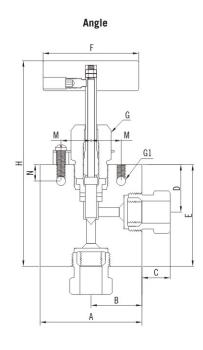


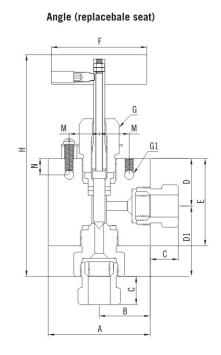
Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless steel
2	Handle Screw	Stainless steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless steel
7	Stem	17-4PH/A564
8	Packing Ring	17-4PH/A564
9	Packing	PTFE/RPTFE/GRAPHITE/Extend stuffing box valve with of Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
	Lubricant	Molybdenum disulfide

V30 Series 30,000 psi (2068 bar)

Dimensions







Dimensions (Straight)

Ordering	Tube OD	Orifice	Α	В	C	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V30SS-S4-1	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.50 (38.1)	1.12 (28.45)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.62 (117.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S6-1	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.50 (38.1)	1.12 (28.45)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.68 (118.9)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S9-1	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.81 (20.57)	1.56 (39.62)	1.12 (28.45)	2.44 (61.98)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.06 (128.5)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

Dimensions (Angle)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V30SS-S4-2	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.12 (28.45)		2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.62 (117.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S6-2	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.12 (28.45)		2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.68 (118.9)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S9-2	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.81 (20.57)	1.12 (28.45)		2.44 (61.98)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.06 (128.5)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

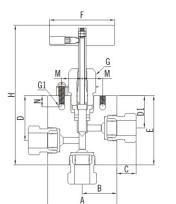
Dimensions (Angle/replaceable seat)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V30SS-S4-3	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.12 (28.45)	2.06 (52.32)	2.38 (60.45)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.80 (147.3)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S6-3	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.12 (28.45)	2.31 (58.67)	2.38 (60.45)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	6.05 (153.7)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S9-3	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.81 (20.57)	1.19 (30.23)	2.62 (66.55)	2.44 (61.98)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	6.45 (163.8)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

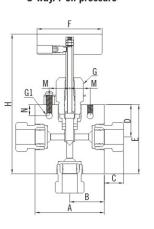
V30 Series 30,000 psi (2068 bar)

Dimensions

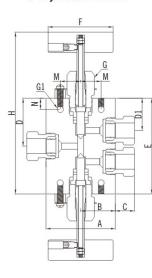
3-way/2 on pressure



3-way/1 on pressure



3-way/2 stem manifold



Dimensions (3-way/2 on pressure)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V30SS-S4-4	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.50 (38.1)	1.12 (28.45)	2.12 (53.85)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.74 (120.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S6-4	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.50 (38.1)	1.12 (28.45)	2.50 (63.5)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.12 (130.1)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S9-4	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.81 (20.57)	1.56 (39.62)	1.12 (28.45)	2.88 (73.15)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.49 (139.5)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

Dimensions (3-way/1 on pressure)

Ordering	Tube OD	Orifice	Α	В	C	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V30SS-S4-5	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.12 (28.45)	2.06 (52.32)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.62 (117.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S6-5	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.12 (28.45)	2.31 (58.67)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.74 (120.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S9-5	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.81 (20.57)	1.12 (28.45)	2.62 (66.55)	2.44 (61.98)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.12 (130.1)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

Dimensions (3-way/2 stem manifold)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V30SS-S4-6	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.53 (38.86)	1.12 (28.45)	3.06 (77.72)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.68 (144.3)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S6-6	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.62 (41.15)	1.12 (28.45)	3.25 (82.55)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.87 (149.1)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V30SS-S9-6	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.81 (20.57)	1.88 (47.75)	1.12 (28.45)	3.75 (95.25)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	6.37 (161.8)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

- G is the drill dimension of packing gland mounting hole.
 Gl is the dimension of bracket mounting hole.
- 3. Panel mounting drill size: 0.22" all valves.
- 4. H is the dimension of stem in closed position.
- 5. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or FD-LOK.

Features

- Tubing size from 1/4" to 9/16".
- Non-rotating stem and bar stock body design.
- Easy to assemble and replace packing
- Metal-to-metal seating achieves ideal shut off, longer stem/seat service lifetime for abrasive
- flow, excellent corrosion resistance and greater durability for repeated on/off cycles.

 Nylon is the standard packing material, RPTFE glass and Graphite also available.
- Extend stuffing box valve with of Graphite can be operated to 1200°F (649°C).
- The material of packing gland and stem sleeve have been selected to achieve reduced handle torque and extended thread cycle life.
- The material of body is 316 SS, The material of valve stem is 17-4PH SS.
- Options for Vee or Regulating stem tips.
- The locking device of packing gland is reliable.
- Five flow patterns are available.

Technical Data

Tube O.D. in.	Orifice in. (mm)	Rated Cv	Pressure @ Room Temperature psi (bar)
1/4	0.062 (1.57)	0.08	60,000 (4137)
3/8	0.062 (1.57)	0.09	60,000 (4137)
9/16	0.078 (1.98)	0.14	60,000 (4137)

Notes:

• The value of Cv shown are for 2-way straight valve pattern.

The value of Cv for 2-way angle pattern will be increase about 50 (Base on water)

Extreme Temperatures

Nylon is the standard packing material for FD-LOK Needle Valve; RPTFE glass, Graphite and Extend stuffing box valve with graphite also available.

Normal Needle valve with Nylon packing can be operated to 230°F (110°C).

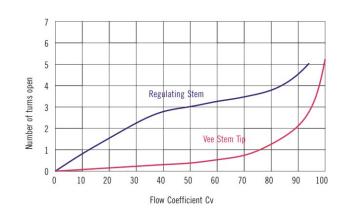
Normal Needle valve with Nylon packing can be operated to 250 F (110 C).

Normal Needle valve with RPTFE glass packing can be operated to 600°F (316°C).

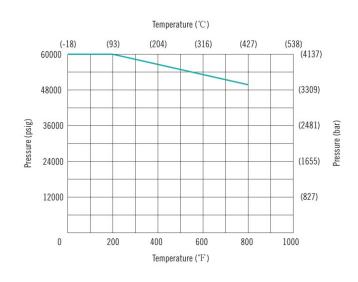
Normal Needle valve with Graphite packing can be operated to 800°F (427°C).

Extend stuffing box valve with of Graphite can be operated to 1200°F (649°C).

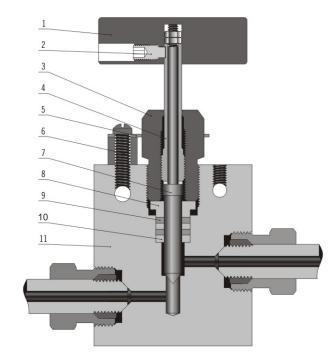
Flow Data at 100°F (38°C)



Pressure & Temperature



Standard Materials of Construction

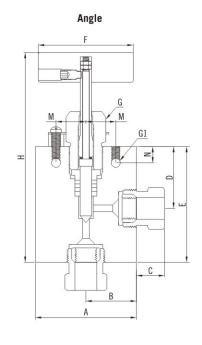


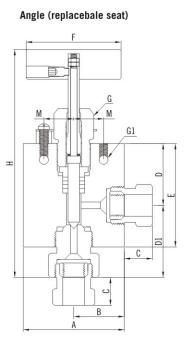
Item	Component	Material Grade/ASTM Specification
1	Handle	Stainless steel
2	Handle Screw	Stainless steel
3	Packing Gland	C63000/B150
4	Sleeve	316 SS/479
5	Locking Plate	304 SS/A240
6	Locking Screw	Stainless steel
7	Stem	17-4PH/A564
8	Packing Ring	17-4PH/A564
9	Packing	PTFE/RPTFE/GRAPHITE/Extend stuffing box valve with of Graphite
10	Packing Washer	17-4PH/A564
11	Body	316 SS/A479
	Lubricant	Molybdenum disulfide

V60 Series 60,000 psi (4137 bar)

Standard Materials of Construction

Straight





Dimensions (Straight)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	1.00 (25.4) 1.00 (25 4)
Number	in.	in. (mm)		in. (mm)											
V60SS-S4-1	1/4	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.69 (42.93)	1.31 (33.27)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.75 (120.7)	0.69 (17.53)	0.38 (9.65)	200000
V60SS-S6-1	3/8	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.69 (42.93)	1.31 (33.27)	2.00 (50.8)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.75 (120.7)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S9-1	9/16	0.078 (1.98)	2.62 (66.55)	1.31 (33.27)	0.72 (18.29)	1.75 (44.45)	1.31 (33.27)	2.50 (63.5)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.13 (130.3)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

Dimensions (Angle)

Ordering Number	Tube OD	Orifice in. (mm)	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
	in.		in. (mm)												
V60SS-S4-2	1/4	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.31 (33.27)		2.38 (60.45)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.00 (127.0)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S6-2	3/8	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.31 (33.27)		2.62 (66.55)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.25 (133.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S9-2	9/16	0.078 (1.98)	2.62 (66.55)	1.31 (33.27)	0.72 (18.29)	1.31 (33.27)		2.81 (71.37)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.44 (138.2)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

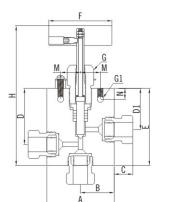
Dimensions (Angle/replaceable seat)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)							in. (m	m)					
V60SS-S4-3	1/4	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.31 (33.27)	2.12 (53.85)	2.38 (60.45)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	6.28 (159.5)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S6-3	3/8	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.31 (33.27)	2.36 (59.94)	2.62 (66.55)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	6.52 (165.6)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S9-3	9/16	0.078 (1.98)	2.62 (66.55)	1.31 (33.27)	0.72 (18.29)	1.31 (33.27)	2.68 (68.07)	2.62 (66.55)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	6.90 (175.3)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

V60 Series 60,000 psi (4137 bar)

Dimensions

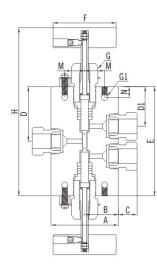
3-way/2 on pressure



3-way/1 on pressure



3-way/2 stem manifold



Dimensions (3-way/2 on pressure)

Ordering Number	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
	in.	in. (mm)		in. (mm)											
V60SS-S4-4	1/4	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.69 (42.93)	1.31 (33.27)	2.38 (60.45)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.75 (120.7)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S6-4	3/8	0.062 (1.57)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.69 (42.93)	1.31 (33.27)	2.75 (68.86)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	4.75 (120.7)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S9-4	9/16	0.078 (1.98)	2.62 (66.55)	1.31 (33.27)	0.72 (18.29)	1.75 (44.45)	1.31 (33.27)	3.03 (76.96)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.13 (130.3)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

Dimensions (3-way/1 on pressure)

							-									
Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	M	N	Thickness	
Number	in.	in. (mm)	in. (mm)													
V60SS-S4-5	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.31 (33.27)		2.38 (60.45)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.00 (127.0)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)	
V60SS-S6-5	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.31 (33.27)		2.62 (66.55)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	5.25 (133.4)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)	
V60SS-S9-5	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.72 (18.29)	1.31 (33.27)		2.81 (71.37)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	5.44 (138.2)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)	

Dimensions (3-way/2 stem manifold)

Ordering	Tube OD	Orifice	Α	В	С	D	D1	E	F	G	G1	Н	М	N	Thickness
Number	in.	in. (mm)	in. (mm)												
V60SS-S4-6	1/4	0.094 (2.39)	2.00 (50.8)	1.00 (25.4)	0.50 (12.7)	1.72 (43.68)	1.31 (33.27)	3.44 (87.38)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	6.07 (154.2)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S6-6	3/8	0.125 (3.18)	2.00 (50.8)	1.00 (25.4)	0.53 (13.5)	1.88 (47.75)	1.31 (33.27)	3.75 (95.25)	3.00 (76.2)	1.00 (25.4)	0.22 (5.59)	6.37 (161.8)	0.69 (17.53)	0.38 (9.65)	1.00 (25.4)
V60SS-S9-6	9/16	0.125 (3.18)	2.62 (66.55)	1.31 (33.27)	0.72 (18.29)	2.06 (52.32)	1.31 (33.27)	4.12 (104.7)	3.00 (76.2)	1.00 (25.4)	0.28 (7.11)	6.37 (161.8)	0.69 (17.53)	0.38 (9.65)	1.50 (38.1)

- G is the drill dimension of packing gland mounting hole.
 Gl is the dimension of bracket mounting hole.
- 3. Panel mounting drill size: 0.22" all valves.
- 4. H is the dimension of stem in closed position.
- 5. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or FD-LOK.

Ordering Information

