Needle Valves
VNV Series

VIGOUR

Product Features

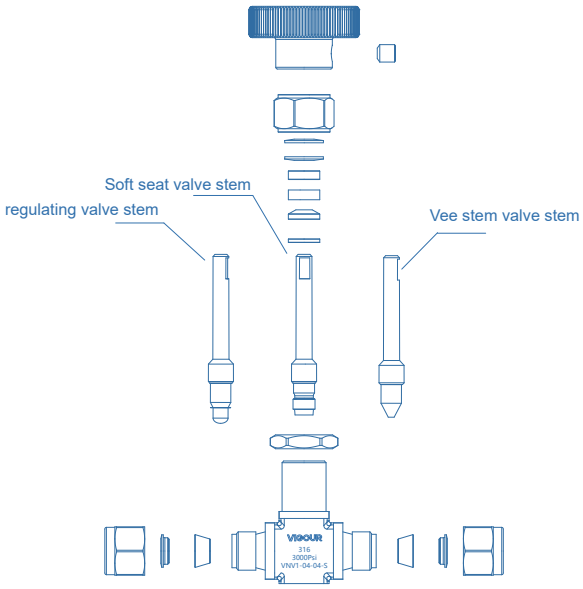
- Live-loaded packing system
- Vee stem, regulating stem, soft-seat stem are optional
- Compact design
- Panel mounting
- Straight, angle, and cross flow patterns
- Working presssure up to 3000 psig (206 bar)

Typical Applications

- Component Testing
- Calibration Systems
- Laboratory Pressure Control
- High Pressure Sampling Systems
- Service & Test Equipment

Technical Data

Type:	Needle valve
Inlet pressure P_1:	max. 206 bar
Material	
Body:	see ordering info
Seat:	PCTFE
Filter:	316
Inlets / Outlets:	see ordering info
Temperature range:	-54℃ to +232℃
Leak rate:	0.1 cc/min
Orifice:	see ordering info
Weight:	0.1kg



Ordering Information

SS - VNV0 - 06 - 06 - V - A

Body Material

SS: 316

Series

0: VNV0 series
1: VNV1 series
2: VNV2 series

Inlets / Outlets

Fractional tube fitting: see below table
Metric tube fitting: see below table
Femal NPT: see below table
Male NPT: see below table

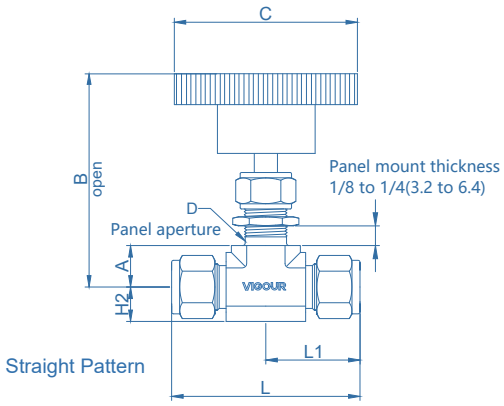
Type

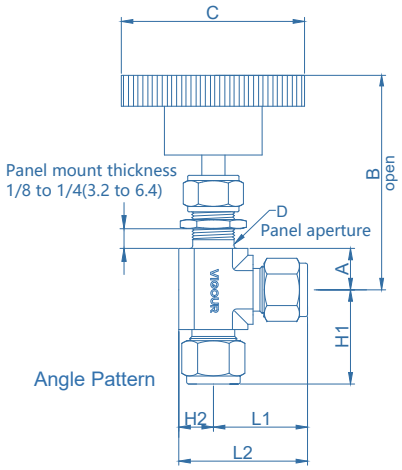
None: straight
A: angle

Stem Option

V: Vee stem
R: Regulating stem
S: Soft-seat stem

Dimensions (mm)





Size in.(mm)	Ordering Number	Orifice in.	Cv	Dimensions, in.(mm)								
				L	L1	H1	L2	A	H2	C	D	B
Fractional tube fittings												
1/8	SS-VNV0-02-02	0.080 (2.0)	0.09	1.94 (49.3)	0.98 (24.9)		1.29 (32.8)	0.44 (11.2)	0.31 (7.9)	1 (25.4)	0.47 (11.9)	2.28 (57.9)
1/4	SS-VNV1-04-04	0.172 (4.4)	0.37	2.27 (57.6)	1.13 (28.7)		1.51 (38.4)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
3/8	SS-VNV1-06-06	0.250 (6.4)	0.73	2.58 (65.5)	1.29 (32.8)		1.79 (45.5)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
1/2	SS-VNV1-08-08			2.80 (71.1)	1.40 (35.6)		1.90 (48.3)					
1/2	SS-VNV2-08-08	0.375 (9.5)	1.80	3.80 (96.5)	1.90 (48.3)		2.65 (67.3)	0.75 (19.1)		3.00 (76.2)	1.03 (26.2)	3.91 (99.3)
3/4	SS-VNV2-12-12											
Metric tube fittings												
3mm	SS-VNV0-3M-3M	0.080 (2.0)	0.09	1.94 (49.3)	0.98 (24.9)		1.29 (32.8)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.48 (12.2)	2.28 (57.9)
6mm	SS-VNV1-6M-6M	0.172 (4.4)	0.37	2.27 (57.6)	1.13 (28.7)		1.51 (38.4)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
8mm	SS-VNV1-8M-8M			2.34 (59.4)	1.17 (29.7)		1.54 (39.1)					
10mm	SS-VNV1-10M-10M	0.250 (6.4)	0.73	2.60 (66.0)	1.30 (33.0)		1.80 (45.7)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
12mm	SS-VNV1-12M-12M			2.80 (71.1)	1.40 (35.6)		1.90 (48.3)					
Female NPT												
1/8	SS-VNV0-F2-F2	0.080 (2.0)	0.09	1.88 (47.8)	0.94 (23.9)		1.25 (31.8)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.47 (11.9)	2.28 (57.9)
1/8	SS-VNV1-F2-F2	0.172 (4.4)	0.37	1.62 (41.1)	0.81 (20.6)		1.19 (30.2)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
1/4	SS-VNV1-F4-F4	0.250 (6.4)	0.73	2.12 (53.8)	1.06 (26.9)		1.56 (39.6)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
3/8	SS-VNV2-F6-F6	0.375 (9.5)	1.80	3.00 (76.2)	1.50 (38.1)		2.25 (57.2)	0.75 (19.1)		3.00 (76.2)	1.03 (26.2)	3.88 (98.6)
1/2	SS-VNV2-F8-F8											
Male NPT												
1/8	SS-VNV0-M2-M2	0.080 (2.0)	0.09	1.50 (38.1)	0.75 (19.1)		1.06 (26.9)	0.44 (11.2)	0.31 (7.9)	1.00 (25.4)	0.47 (11.9)	2.28 (57.9)
1/8	SS-VNV1-M2-M2	0.172 (4.4)	0.37	1.62 (41.1)	0.81 (20.6)		1.19 (30.2)		0.38 (9.7)	1.38 (35.1)	0.53 (13.5)	2.50 (63.5)
1/4	SS-VNV1-M4-M4	0.250 (6.4)		1.97 (50.0)	0.98 (24.9)		1.36 (34.5)					
3/8	SS-VNV1-M6-M6	0.375 (9.5)	0.73	2.25 (62.5)	1.12 (28.4)		1.62 (41.1)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)	2.97 (75.4)
1/2	SS-VNV2-M8-M8		1.80	3.00 (76.2)	1.50 (38.1)		2.25 (57.2)	0.75 (19.1)		3.00 (76.2)	1.03 (26.2)	3.88 (98.6)