

# Needle Valve / Nadelventile

## VNV Series

### 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 pressure up to 5000 psig (345 bar)

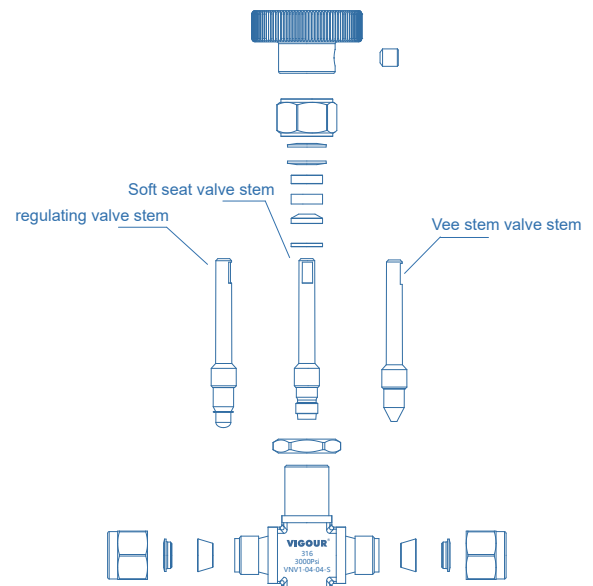
### Typical Applications

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

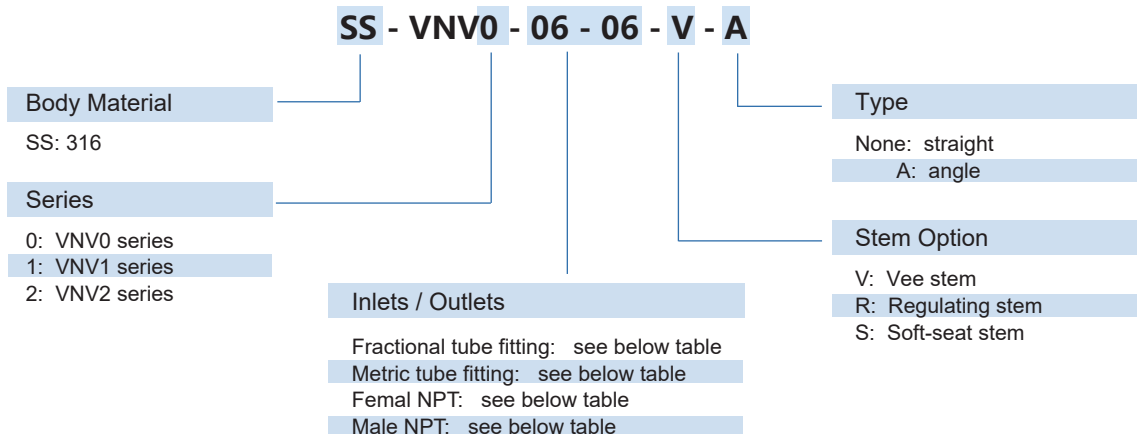


### Technical Data

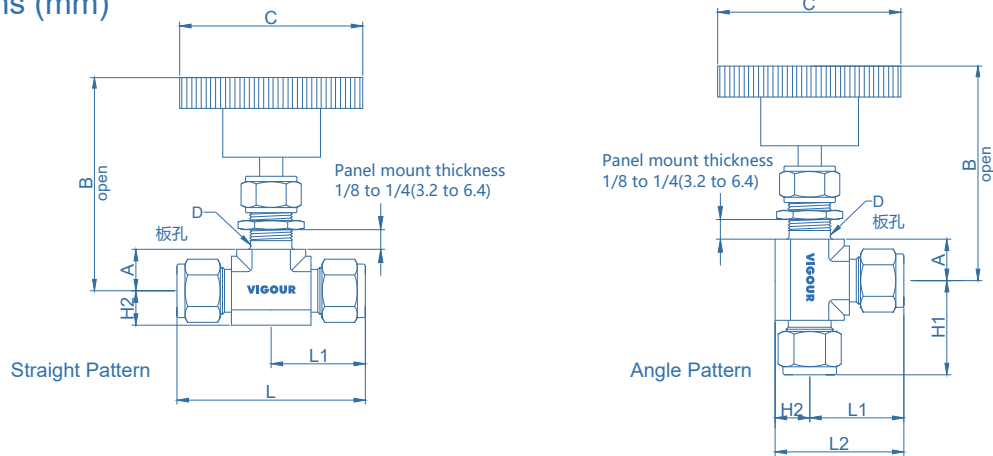
Type:	Needle valve
Inlet pressure P1:	max. 345 bar
Material	
Body:	see ordering info
Seat:	Metal to metal
Diaphragm:	Hastelloy® C276
Filter:	316
Inlets / Outlets:	see ordering info
Temperature range:	-54°C to +232°C
Leak rate:	0.1 cc/min
Orifice:	see ordering info
Weight:	0.1kg



### Ordering Information



### 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)						
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)						
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)						
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)						
1/4	SS-VNV1-M4-M4			0.250 (6.4)	0.73	1.97 (50.0)	0.98 (24.9)	1.36 (34.5)	0.55 (14.0)	0.50 (12.7)	1.88 (47.8)	0.78 (19.8)
3/8	SS-VNV1-M6-M6	0.375 (9.5)	1.80	2.25 (62.5)	1.12 (28.4)	1.62 (41.1)						
1/2	SS-VNV2-M8-M8			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)		

