

INSTRUMENTATION Non Rotating- Stem Needle Valve

VNN Series





Non Rotating Stem Needle Valve - VNN Series

Features

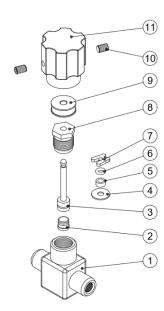
- Design Spec : ANSI / ASME B13.34
- PRESSURE RATING: 3000psig(206bar) @38°C(100°F)
- Compact, rugged design is available in straight and angle flow patterns.
- Protection handles are applied to prevent contaminants from entering the valve when it is operated.
- Female NPT, male NPT, UNILOK tube fitting, and mixed end connections are available
- Stem tips interchangeable
- Orifice sizes from 2.4 to 5.6mm are available.
- Flow coefficients (Cv) From 0.12 to 0.53 are available.

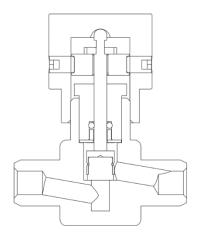


Every Valve is 100% factory tested with air and nitrogen at 1000psig(69bar) for leakage at the seat and packing.

Each test is performed to a maximum allowable leak rate of 0.1scc/min.

Hydrostatic shell test to be performed at 1.5 time of the working pressure with optional.





Cleaning

UNILOK valves are free from machine oils, loose particles and grease throughout the close cleaning process.

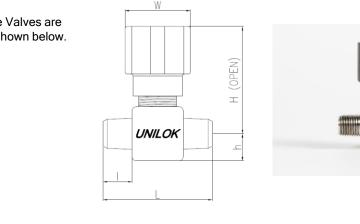
Materials of Construction

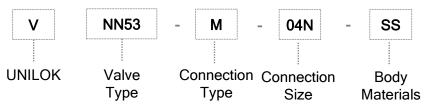
No.	Description	Materials	EA
1	Body	PCTFE	1
2	Soft Stem Tip	SUS316	1
3	Stem	SUS316	1
4	Washer	SUS316	1
5	Packing	PTFE	1
6	O-Ring	FKM	1
7	Stopper	SUS304	1
8	Packing Bolt	SUS316	1
9	Spool	AL	1
10	Handle Set Screw	SUS304	2
11	Handle	AL	1



How to Order

 UNILOK VNN Series Needle Valves are ordered by part number as shown below.





Valve Type				
NN53	CV 0.53			
NN27	CV 0.27			
NN12	CV 0.12			

Connection Size							
Male NPT or ISO7/1(PT)							
Size 1/8 1/4 3/8 1/2							
Designator 02M 04M 06M 08M							

Body Materials					
SS 316SS					
Stem Type					
None Soft seat stem					

Handle Type

Nylon Round Handle

None

	Connection Type					
U	UNILOK Tube Fitting					
F	Female NPT or ISO7/1(PT)					
М	Male NPT or ISO7/1(PT)					

Connection Size						
Female NPT or ISO7/1(PT)						
Size 1/8 1/4						
Designator 02F 04F						

Connection Size						
Fractional(Inch) Tube O.D. Designation						
Tube	inch	1/8	1/4	3/8		
O.D.	mm	3.17	6.35	9.52		
Designator 02T 04T 06T						

Connection Size					
	Metric Tube O.D. Designation				
Tube mm 6					
Desi	gnator	M06T			



Ordering Information & Dimensions

Part Number			orifice	0)/	Dimensions mm(in.)					
		End Connection	mm	CV	L	I	Н	h	W	
V-NN53	M-04N-SS	1/4" Male NPT	5.6	0.53	56.7	28.4	47.2	13.6		
	M-06N-SS	3/8" Male NPT	5.6	0.53	57.2	28.4	51.3	14.2		
	F-04N-SS	1/4" Female NPT	5.6	0.53	53.8	26.9	51.3	12.7		
	U-06T-SS	3/8 UNILOK	5.6	0.53	57.6	32.8	51.3	12.7	31.5	
	MU-04M08T-SS	1/4 Male NPT/ 3/8 UNILOK	5.6	0.53	60.5	28.4 / 32.0	51.3	12.7		
	MF-04M02F-SS	1/4 male NPT / 1/4 Female NPT	5.6	0.53	55.6	28.4 / 26.9	51.3	12.7		
	MF-08M04F-SS	1/2 Male NPT / 1/4 Female NPT	5.6	0.53	63.5	31.8	51.3	14.2		

Part Number		orifice	014	Dimensions mm(in.)					
		End Connection	mm	CV	L	ı	Н	h	W
	M-04N-SS	1/4" Male NPT	4.0	0.27	50.0	24.9	47.2	9.7	
	U-04T-SS	1/4" UNILOK	4.0	0.27	65.5	28.7	47.2	9.7	
V-NN27	U-M06T-SS	6MM UNILOK	4.0	0.27	57.6	28.7	47.2	9.7	31.5
	U-04TT-SS	1/4 UNILOK / 1/4 UNILOK	4.0	0.27	53.8	24.9 / 28.7	47.2	9.7	
	MU-04MM06T-SS	1/4 Male NPT / 6MM UNILOK	4.0	0.27	53.8	24.9 / 28.7	47.2	9.7	

Part Number		End Connection orifice mm		orifice	Dimensions mm(in.)					
				CV	L	ı	Н	h	W	
	12-U-02T-SS	1/8" UNILOK	2.4	0.12	55.9	27.9	47.2	7.9		
V-NN12	12-MU-02M04T-SS	1/8 Male NPT / 1/4 UNILOK	2.4	0.12	47.0	19.0 / 27.9	47.2	7.9	31.5	
	12-MF-02M02F-SS	1/8 Male NPT / 1/8 Female NPT	2.4	0.12	42.9	19.0 / 23.9	47.2	7.9		

