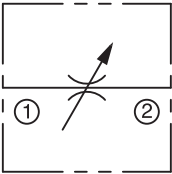


**N Needle Valve**  
Female-to-Female

IN-LINE



**FLOW RATING**

Size	Max Recommended Flow gpm (lpm)	Co-Efficient (Cv Factor) Fully Open
1/8"	3.2 (12.1)	.20
1/4"	7.0 (26.5)	.43
3/8"	13.5 (51.1)	.78
1/2"	22.5 (85.2)	1.24
3/4"	34.0 (128.7)	1.93

**DESCRIPTION**

A variable flow restrictor with positive shut-off. A wide range of flow adjustment is possible because of the fine thread and tapered needle. Unwanted changes in adjustment are prevented by a locknut. A tamperproof adjustment key is standard; a knurled knob is available at slight extra cost.

- Wide range of flow adjustability
- Lock Nut to maintain flow setting
- Positive shut-off

**SPECIFICATIONS**

**Maximum Operating Pressure (Non-Shock Service)**

Brass: 2,000 psi (138 bar)  
Carbon Steel: 5,000 psi (345 bar)  
Stainless Steel: 5,000 psi (345 bar)

**Operating Temperature Range**

-15° to +400° F (-26° to +204° C)

**Threads**

NPTF, BSPT, SAE

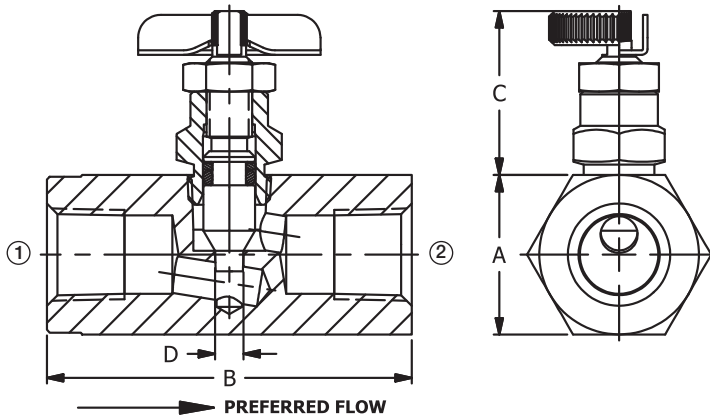
**Materials**

Body, Housing: Brass, Steel, Stainless Steel 303  
Needle: Brass (Brass Valves)  
              Stainless Steel 416 (Steel and Stainless Steel Valves)  
O-Ring: Viton  
Back-Up Washer: Teflon  
Lock Nut: Brass, Steel, Stainless Steel 303  
Knob: Aluminum  
Tamperproof Key: Steel

(continued)  
**N Needle Valve**  
 Female-to-Female

IN-LINE

## INSTALLATION DIMENSIONS



Pipe Size	A HEX	B	C Open	D Orifice
1/8"	11/16 (17.5)	1-15/32 (37.3)	7/8 (22.2)	.107 (2.7)
1/4"	7/8 (22.2)	2 (50.8)	1-1/16 (27.0)	.156 (4.0)
3/8"	1-1/16 (27.0)	2-1/4 (57.2)	1-3/16 (30.2)	.219 (5.6)
1/2"	1-5/16 (33.4)	2-21/32 (67.5)	1-15/32 (37.3)	.281 (7.1)
3/4"	1-5/8 (41.3)	2-15/16 (74.6)	1-11/16 (42.9)	.344 (8.7)

( ) Parentheses = Millimeters

## HOW TO ORDER

<b>N</b>					
Needle Valve	Thread	SAE Size	Size	Material	Knob

Code	Thread
Omit	NPTF
<b>B</b>	BSPT
<b>M</b>	SAE

Code	Material
<b>B</b>	Brass
<b>S</b>	Carbon Steel
<b>SS</b>	Stainless Steel

Code	Knob
Omit	Tamperproof Adjustment Key
<b>K</b>	Knob

Code	SAE Size
Omit	NPTF, BSPT
<b>6</b>	9/16-18 UNF
<b>8</b>	3/4-16 UNF
<b>12</b>	1-1/16-12 UN

Code	Size
<b>10</b>	1/8"
<b>20</b>	1/4"
<b>25</b>	3/8"
<b>30</b>	1/2"
<b>35</b>	3/4"

## AVAILABLE MODEL CODES

Size	NPTF Thread			ISO 7/1 - RS — BSP Taper Thread		SAE Thread
	Brass	Steel	Stainless Steel	Brass	Steel	Steel
1/8"	N10B N10BK	N10S N10SK	— N10SSK	NB10BK	NB10SK	—
1/4"	N20B N20BK	N20S N20SK	— N20SSK	NB20BK	NB20SK	NM620SK
3/8"	N25B N25BK	N25S N25SK	— N25SSK	NB25BK	NB25SK	—
1/2"	N30B N30BK	N30S N30SK	— N30SSK	—	NB30SK	NM830SK
3/4"	N35B N35BK	— N35SK	— —	—	NB35SK	NM1235SK