

'NV2H' Needle Valves

**Bidirectional Metered Flow (no check); 1/8" to 1 1/4";
Carbon Steel body for working pressures to 5,000 PSI**



The DMIC 'NV2H' continues our tradition of furnishing superlative quality needle valves for high pressure service, while reducing the Buyer's purchase cost relative to the old model. Made in U.S.A. for improved deliveries, for both American and metric market customers.

- ☑ DMIC's '**ChromaFlow**' color-coded design facilitates initial calibration, system documentation, and restoration of correct settings if required
- ☑ Uo to **5,000 PSI maximum operating pressure**
- ☑ **Optional security knob** (append suffix '/LHS') permanently fixes valve flow setting for tamper resistance and "goof-proofing"
- ☑ For OEM production quantities, **optional "fine" needle profile** available
- ☑ **Viton and EPR sealing optional, please call DMIC**

Needle Valve Part No.	Nominal Size	Port Thread	PERFORMANCE DATA				DIMENSIONS (inches, mm)				
			Working Pressure	Flow GPM ¹	Orifice (sq.in., mm ²)	Effective C _v	A	B	C	D	Lbs. kg
NV2H-0125N	1/8"	1/8" NPTF	5,000 PSI	3 GPM	0.0102	0.230	1.54	1.50	0.63	0.75	0.3
NV2H-0125B		1/8" BSPP	345 Bar	11 l/m	6,58		39,1	38,1	15,9	19,1	0,1
NV2H-0250N	1/4"	1/4" NPTF	5,000 PSI	5 GPM	0.0194	0.443	1.79	2.00	0.81	0.81	0.5
NV2H-0250B		1/4" BSPP	345 Bar	19 l/m	12,52		45,5	50,8	20,6	20,6	0,2
NV2H-0375N	3/8"	3/8" NPTF	5,000 PSI	8 GPM	0.0344	0.787	2.18	2.50	1.00	1.00	0.9
NV2H-0375B		3/8" BSPP					55,4	63,5	25,4	25,4	0,36
NV2H-0375S		#6 SAE					1.88	2.38	1.00	0.81	0.7
NV2H-0375IU		16mm ISO6149					47,6	60,3	25,4	20,6	0,28
NV2H-0500N	1/2"	1/2" NPTF	5,000 PSI	15 GPM	0.0427	0.976	2.70	2.63	1.25	1.19	1.4
NV2H-0500B		1/2" BSPP					68,6	66,7	31,8	30,2	0,56
NV2H-0500S		#8 SAE					2.24	3.00	1.13	1.00	1.1
NV2H-0500IU		18mm ISO6149					56,9	76,2	28,6	25,4	0,44
NV2H-0625S	5/8"	#10 SAE	5,000 PSI	15 GPM	0.0427	0.976	2.70	3.50	1.25	1.19	1.3
NV2H-0625IU		22mm ISO6149	345 Bar	57 l/m	27,55		68,6	88,9	31,8	30,2	0,52
NV2H-0750N	3/4"	3/4" NPTF	3,000 PSI	25 GPM	0.1080	2.470	3.38	3.25	1.50	1.38	2.3
NV2H-0750B		3/4" BSPP					85,9	82,6	38,1	35,1	1,1
NV2H-0750S		#12 SAE					3.38	4.00	1.50	1.38	2.3
NV2H-0750IU		27mm ISO6149					85,9	101,6	38,1	35,1	1,1
NV2H-1000N	1"	1" NPTF	3,000 PSI	40 GPM	0.2300	5.250	4.87	4.25	1.75	1.88	4.7
NV2H-1000B		1" BSPP			148,3		123,7	108,0	44,5	47,8	2,2
NV2H-1000S		#16 SAE			0.3070	7.000	5.14	4.25	2.25	1.88	4.7
NV2H-1000IU		33mm ISO6149			198,1		130,6	108,0	57,2	47,8	2,2
NV2H-1250N	1 1/4"	1 1/4" NPTF	3,000 PSI	70 GPM	0.2300	5.250	5.12	4.25	2.25	1.88	6.4
NV2H-1250B		1 1/4" BSPP			148,3		130,0	108,0	57,2	47,8	2,9
NV2H-1250S		#20 SAE			0.3710	8.470	5.51	4.50	2.75	1.88	6.4
					239,4		140,0	114,3	69,9	47,8	2,9

NOTES: (1) Typical flows quoted in U.S. GPM, using 100 SUS Petroleum Based Fluid at 100°F





'NV2H' Dimensions & Flow Curves

This valve series is factory sealed and disassembly will destroy the valve and void the warranty. Due to our policy of continual product improvement, specifications may change without notice. When designing by spec, please request a certified print.

'NV2H' Steel Needle Valves Physical Parameters

VALVE BODY:	Carbon Steel
POPPET:	None
SEALING:	Buna-N Standard
WORKING PSI (1/8-5/8"):	5,000 PSI (345 Bar)
WORKING PSI (3/4-2"):	3,000 PSI (207 Bar)
SAFETY FACTOR:	Minimum 3:1
RETURN FLOW CHECK:	Not Present
TEMP RANGE:	-5°F/195°F (-20°C/90°C)

Ordering Codes for 'NV2H' Precision Needle Valves

NV2 H - 0625 S /LHS

MODEL:

M: Brass, to 2000 PSI
H: Steel, to 5000 PSI

NOMINAL SIZE:

Expressed in 1/1000ths inch.
Example: 0375 = 3/8", 1 1/2 = 1500

INLET PORT THREAD:

Standard US/Canada:

N: NPTF
S: SAE ORB

Metric Standard:

B: BSPP

Optional Threads (Call DMIC):

B: BSPP
T: BSPT
IU: ISO6149

EASY ORDER OPTIONS:

/LHS Security (Permanent) Locking Knob
/LH Finger Screw Locking Knob
/FN Fine Metering Needle Option

