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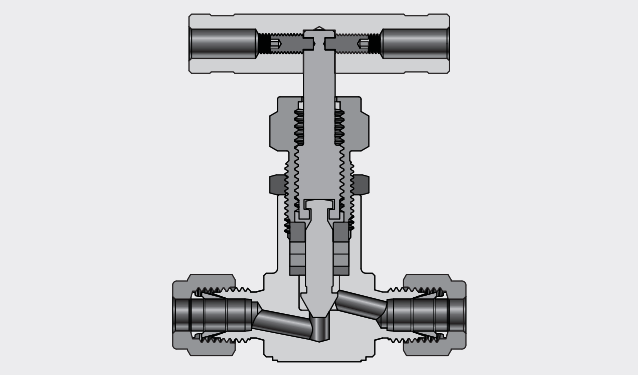
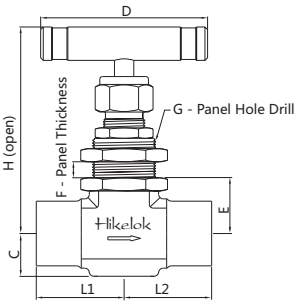
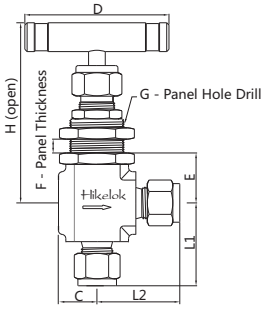
Needle Valves-NV1 Series



- Maximum working pressure up to 6000 psig (413 bar)
- One-piece forged body
- Straight and angle patterns
- Upper stem and lower stem design, Stem threads above packing protected from system media
- Panel mounting available
- Optional handle colors available

Dimensions





Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)							
				L1	L2	H	D	C	E	F	G
NV1-FNPT2-04-	1/8 Female NPT	0.157 (4.0)	0.35	1.00 (25.4)	1.00 (25.4)	2.85 (72.5)	2.17 (55)	0.53 (13.5)	0.71 (18.0)	0.25 (6.4)	0.77 (19.6)
NV1-FNPT4-04-	1/4 Female NPT			1.03 (26.2)	1.03 (26.2)						
NV1-F4-04-	1/4" Hikelok			1.22 (30.9)	1.22 (30.9)						
NV1-M6-04-	6 mm Hikelok										
NV1-M8-04-	8 mm Hikelok			1.25 (31.75)	1.25 (31.75)						
NV1-NPT6-04-	3/8 Male NPT			1.19 (30.2)	1.19 (30.2)						
NV1-FNPT4-06-	1/4 Female NPT	0.236 (6.0)	0.85	1.13 (28.6)	1.13 (28.6)	3.38 (85.8)	2.50 (63.5)	0.62 (15.8)	0.87 (22.0)	0.38 (9.7)	0.96 (24.4)
NV1-FNPT6-06-	3/8 Female NPT										
NV1-NPT6-06-	3/8 Male NPT										
NV1-F6-06-	3/8" Hikelok			1.44 (36.5)	1.44 (36.5)						
NV1-M10-06-	10 mm Hikelok										
NV1-M12-06-	12 mm Hikelok			1.53 (38.9)	1.53 (38.9)						
NV1-M14-06-	14 mm Hikelok			1.56 (39.7)	1.56 (39.7)						
NV1-FNPT8-06-	1/2 Female NPT			1.26 (32.0)	1.26 (32.0)						
NV1-NPT8-06-	1/2 Male NPT			1.50 (38.1)	1.50 (38.1)						
NV1-F8-06-	1/2" Hikelok			1.53 (38.9)	1.53 (38.9)						
NV1-FSW6-06-	3/8" FSW										
NV1-FSW8-06-	1/2" FSW										
NV1-MSW12-06-	12 mm MSW			1.13 (28.6)	1.13 (28.6)						
NV1-MSW14-06-	14 mm MSW										
NV1-MSW16-06-	16 mm MSW										
NV1-MBW14-06-	14 mm MBW			1.50 (38.1)	1.50 (38.1)						
NV1-MBW16-06-	16 mm MBW										
NV1-UGM14-06-	14 mm UGM			2.92 (74.1)	2.92 (74.1)						
NV1-UGM16-06-	16 mm UGM										
NV1-MS20-06-	M20 x 1.5 Male ISO			1.50 (38.1)	1.50 (38.1)						
NV1-MS22-06-	M22 x 1.5 Male ISO										

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Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)							
				L1	L2	H	D	C	E	F	G
NV1-FNPT8-11-	1/2 Female NPT	0.433 (11.0)	2.18	1.56 (39.7)	1.56 (39.7)	3.86 (98.0)	3.5 (88.9)	0.8 (20.2)	1.1 (28.3)	0.38 (9.7)	1.08 (27.5)
NV1-FNPT12-11-	3/4 Female NPT										
NV1-NPT8-11-	1/2 Male NPT										
NV1-NPT12-11-	3/4 Male NPT										
NV1-F12-11-	3/4" Hikelok			1.97 (50.0)	1.97 (50.0)						
NV1-M14-11-	14 mm Hikelok										
NV1-M16-11-	16 mm Hikelok										
NV1-M18-11-	18 mm Hikelok										
NV1-M20-11-	20 mm Hikelok										
NV1-M25-11-	25 mm Hikelok										
NV1-MSW14-11-	14 mm MSW			1.56 (39.7)	1.56 (39.7)						
NV1-MSW16-11-	16 mm MSW										
NV1-MSW18-11-	18 mm MSW										
NV1-FSW12-11-	3/4" FSW										
NV1-FSW8-11-	1/2" FSW										
NV1-MBW14-11-	14 mm MBW										
NV1-MBW16-11-	16 mm MBW										
NV1-UGM14-11-	14 mm UGM			2.98 (75.7)	2.98 (75.7)						
NV1-UGM16-11-	16 mm UGM										
NV1-MS27-11-	M27 x 2 Male ISO			1.56 (39.7)	1.56 (39.7)						
NV1-FNPT12-15-	3/4 Female NPT	0.591 (15.0)	3.27	1.97 (50.0)	1.97 (50.0)	6.5 (165)	5.0 (127)	1.3 (33.0)	1.61 (41.0)	0.38 (9.7)	1.45 (36.8)
NV1-FSW16-15-	1" FSW										
NV1-MSW25-15-	25 mm MSW										
NV1-MSW28-15-	28 mm MSW										
NV1-F12-15-	3/4" Hikelok			2.35 (59.7)	2.35 (59.7)						
NV1-F16-15-	1" Hikelok										
NV1-M20-15-	20 mm Hikelok										
NV1-M22-15-	22 mm Hikelok										
NV1-M25-15-	25 mm Hikelok										
NV1-FNPT16-20-	1 Female NPT	0.787 (20.0)	5.65	1.97 (50.0)	1.97 (50.0)	6.5 (165)	5.5 (165)	1.3 (33.0)	1.61 (41.0)	0.38 (9.7)	1.45 (36.8)
NV1-FSW16-20-	1" FSW										
NV1-MSW25-20-	25 mm MSW										
NV1-MSW28-20-	28 mm MSW										

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How to Order

NV1— MBW8 — M12 — S06S — GY — A — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Seat Material	Orifice Size	Tip Material	Tip Type	Packing Material	Panel Mounting	Handle	Flow pattern	Body Material
NV1	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO 261 **MS** Male ISO 261 **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting **UGF** Nut + Gasket + Fractional Bulge Nipple **UGM** Nut + Gasket + Metric Bulge Nipple **FSW** Fractional Tube Socket Weld **MSW** Metric Tube Socket Weld **FBW** Fractional Tube Butt Weld **MBW** Metric Tube Butt Weld **PSW** Pipe Socket Weld **PBW** Pipe Butt Weld	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm **14** 14 mm or M14 x 1.5 **16** 1 in. or 16 mm **18** 18 mm **20** 1 1/4 in. or 20 mm or M20 x 1.5 **22** 22 mm or M22 x 1.5 **24** M24 x 1.5 **25** 25mm **27** M27 x 2 **28** 28mm	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator		Same as Body **S** Stellite	**04** 0.157 in. (4.0 mm) **06** 0.236 in. (6.0 mm) **11** 0.433 in. (11 mm) **15** 0.591 in. (15 mm) **20** 0.787 in. (20 mm)	Same as Body **S** Stellite	Blunt **R** Regulating **A** Ball	PTFE **G** Graphite	No **Y** Yes	Black Aluminum Bar **R** Red Aluminum Bar **G** Green Aluminum Bar **L** Blue Aluminum Bar **S** 304 Stainless Steel Bar	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S. **321** 321 S.S. **F91** F91 **F91** F92 **A400** Alloy 400 **A20** Alloy 20 **A600** Alloy 600 **A825** Alloy 825 **A276** Alloy C276 **DU7** Duplex 2507 **BR** Brass

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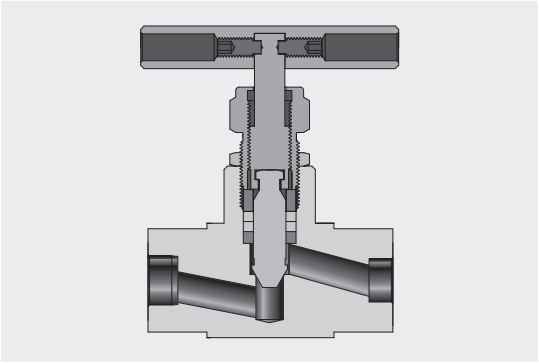
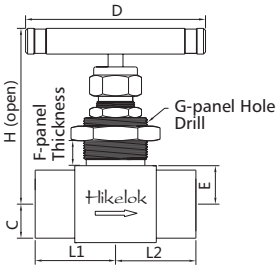
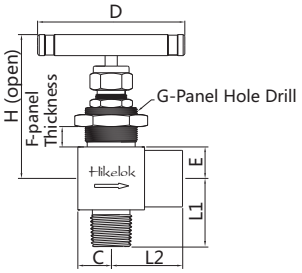
Needle Valves-NV2 Series

- Maximum working pressure up to 10000 psig (689 bar)
- One-piece heavy wall forged body
- Straight and angle patterns
- Upper stem and lower stem design, Stem threads above packing protected from system media
- Safety back seating needle in fully open position
- Panel mounting available
- Optional handle colors available



Dimensions





Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)							
				L1	L2	C	D	E	F	G	H
NV2-FNPT2-04-	1/8 Female NPT	0.157 (4.0)	0.35	1.13 (28.6)	1.13 (28.6)	0.53 (13.5)	2.17 (55)	0.53 (13.5)	0.25 (6.4)	0.96 (24.4)	2.85 (72.5)
NV2-FNPT4-04-	1/4 Female NPT										
NV2-FNPT4-NPT4-04-	1/4 Female to Male NPT										
NV2-NPT4-04-	1/4 Male NPT										
NV2-F4-04-	1/4" Hikelok			1.41 (35.8)	1.41 (35.8)						
NV2-M6-04-	6 mm Hikelok										
NV2-M8-04-	8 mm Hikelok										
NV2-FSW4-04-	1/4" FSW			1.13 (28.6)	1.13 (28.6)						
NV2-FNPT4-06-	1/4 Female NPT	0.236 (6.0)	0.85	1.31 (33.4)	1.31 (33.4)	0.625 (15.88)	2.50 (63.5)	0.625 (15.88)	0.38 (9.7)	1.09 (27.7)	3.5 (88.9)
NV2-FNPT6-06-	3/8 Female NPT										
NV2-FNPT8-06-	1/2 Female NPT										
NV2-F6-06-	3/8" Hikelok			1.41 (35.8)	1.41 (35.8)						
NV2-F8-06-	1/2" Hikelok			1.52 (38.6)	1.52 (38.6)						
NV2-M10-06-	10 mm Hikelok			1.42 (36.1)	1.42 (36.1)						
NV2-M12-06-	12 mm Hikelok			1.52 (38.6)	1.52 (38.6)						
NV2-M14-06-	14 mm Hikelok			1.56 (39.7)	1.56 (39.7)						
NV2-FSW6-06-	3/8" FSW										
NV2-FSW8-06-	½" FSW			1.31 (33.4)	1.31 (33.4)						
NV2-MSW12-06-	12 mm MSW										
NV2-MSW14-06-	14 mm MSW										
NV2-FNPT8-11-	1/2 Female NPT	0.433 (11.0)	2.18	1.56 (39.6)	1.56 (39.6)	0.875 (22.2)	3.5 (88.9)	0.875 (22.2)	0.38 (9.7)	1.28 (32.5)	4.17 (106)
NV2-FNPT12-11-	3/4 Female NPT			1.63 (41.3)	1.63 (41.3)						
NV2-F12-11-	3/4" Hikelok										
NV2-M14-11-	14 mm Hikelok			1.97 (50.0)	1.97 (50.0)						
NV2-M16-11-	16 mm Hikelok										
NV2-M18-11-	18 mm Hikelok										
NV2-MSW14-11-	14 mm MSW										
NV2-MSW16-11-	16 mm MSW			1.56 (39.7)	1.56 (39.7)						

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How to Order

NV2— MBW8 — FNPT8— S06S — GY — LA — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Seat Material	Orifice Size	Tip Material	Tip Type	Packing Material	Panel Mounting	Handle	Flow Pattern	Body Material
NV2	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting **UGF** Nut + Gasket + Fractional Bulge Nipple **UGM** Nut + Gasket + Metric Bulge Nipple **FSW** Fractional Tube Socket Weld **MSW** Metric Tube Socket Weld **FBW** Fractional Tube Butt Weld **MBW** Metric Tube Butt Weld **PSW** Pipe Socket Weld **PBW** Pipe Butt Weld	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm **14** 14 mm or M14 x 1.5 **16** 1 in. or 16 mm **18** 18 mm **20** 1 1/4 in. or 20 mm or M20 x 1.5 **22** 22 mm or M22 x 1.5 **24** M24 x 1.5 **25** 25mm **27** M27 x 2 **28** 28 mm	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator		Same as Body **S** Stellite	**04** 0.157 in. (4.0 mm) **06** 0.236 in. (6.0 mm) **11** 0.433 in. (11 mm) **15** 0.591 in. (15 mm) **20** 0.787 in. (20 mm)	Same as Body **S** Stellite	Blunt **R** Regulating **A** Ball	PTFE **G** Graphite	No **Y** Yes	Black Aluminum Bar **R** Red Aluminum Bar **G** Green Aluminum Bar **L** Blue Aluminum Bar **S** 304 Stainless Steel Bar	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S. **321** 321 S.S. **F91** F91 **F91** F92 **A400** Alloy 400 **A20** Alloy 20 **A600** Alloy 600 **A825** Alloy 825 **A276** Alloy C276 **DU7** Duplex 2507 **BR** Brass

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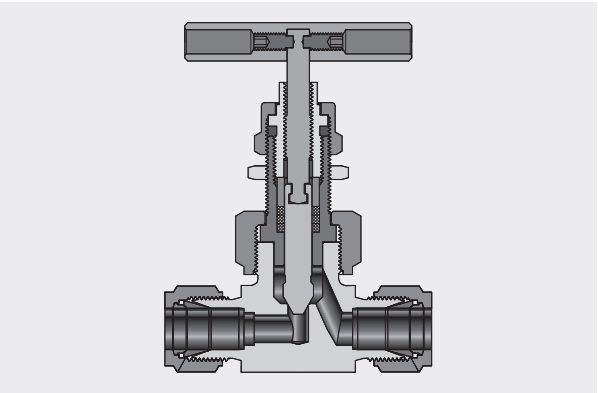
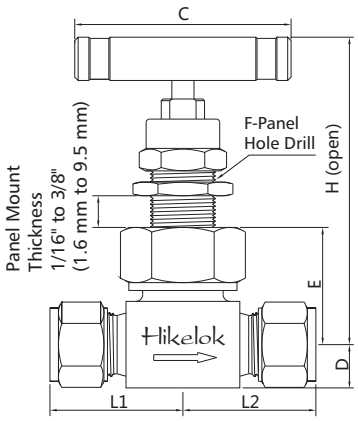
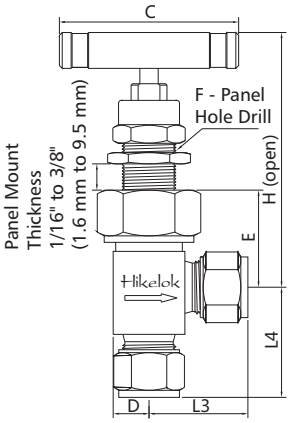
Needle Valves-NV3 Series

- Maximum working pressure up to 6000 psig (413 bar)
- Union-bonnet construction for safety
- Straight and angle patterns
- Upper stem and lower stem design, Stem threads above packing protected from system media
- Panel mounting available
- Optional handle colors available



Dimensions





Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)								
				L1	L2	L3	L4	C	D	E	F	H
NV3-FNPT2-04-	1/8 Female NPT	0.157 (4.0)	0.35	1.00 (25.4)	1.00 (25.4)	0.89 (22.6)	1.00 (25.4)	1.75 (44.5)	0.39 (9.9)	1.09 (27.7)	19/32 (15.1)	3.04 (77.2)
NV3-FNPT4-04-	1/4 Female NPT			1.03 (26.2)	1.03 (26.2)							
NV3-NPT4-FNPT4-04-	1/4 Male NPT			1.00 (25.4)	1.03 (26.2)							
NV3-NPT4-04-	1/4 Male NPT			1.00 (25.4)	1.00 (25.4)	1.00 (25.4)						
NV3-NPT6-04-	3/8 Male NPT											
NV3-FBP4-04-	1/4 Female BSPP			1.03 (26.2)	1.03 (26.2)	0.89 (22.6)						
NV3-NPT4-F4-04-	1/4 Male NPT			1.00 (25.4)	1.22 (30.9)	1.16 (29.5)						
NV3-FNPT4-F4-04-	1/4 Female NPT			1.03 (26.2)	1.22 (30.9)							
NV3-F4-04-	1/4" Hikelok			1.22 (30.9)	1.22 (30.9)		1.48 (37.6)					
NV3-M6-04-	6 MM Hikelok											
NV3-M8-04-	8 MM Hikelok											
NV3-FSW4-04-	1/4" FWS			0.91 (23.1)	0.91 (23.1)	0.88 (22.4)	1.19 (30.2)					
NV3-FNPT4-06-	1/4 Female NPT	0.236 (6.0)	0.8	1.13 (28.6)	1.13 (28.6)	1.0 (25.4)	1.13 (28.6)	2.50 (63.5)	0.50 (12.7)	1.34 (34.0)	25/32 (19.8)	3.70 (94)
NV3-FNPT6-06-	3/8 Female NPT											
NV3-NPT6-06-	3/8 Male NPT					1.06 (26.9)						
NV3-NPT8-06-	1/2 Male NPT			1.50 (38.1)	1.50 (38.1)	1.25 (31.8)	1.50 (38.1)					
NV3-F6-06-	3/8" Hikelok			1.41 (35.9)	1.41 (35.9)	1.29 (32.8)	1.66 (42.2)					
NV3-F8-06-	1/2" Hikelok			1.52 (38.6)	1.52 (38.6)	1.40 (35.6)	1.65 (41.9)					
NV3-M10-06-	10 MM Hikelok			1.42 (36.1)	1.42 (36.1)	1.30 (33.0)	1.55 (39.4)					

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Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)								
				L1	L2	L3	L4	C	D	E	F	H
NV3-M12-06-	12 mm Hikelok	0.236 (6.0)	0.8	1.52 (38.6)	1.52 (38.6)	1.40 (35.6)	1.65 (41.9)	2.50 (63.5)	0.50 (12.7)	1.34 (34.0)	25/32 (19.8)	3.70 (94)
NV3-M14-06-	14 mm Hikelok											
NV3-M16-06-	16 mm Hikelok											
NV3-FSW6-06-	3/8" FSW			1.13 (28.6)	1.13 (28.6)	1.00 (25.4)	1.13 (28.6)					
NV3-FSW8-06-	1/2" FSW											
NV3-MSW12-06-	12 mm MSW											
NV3-MSW14-06-	14 mm MSW											
NV3-MSW16-06-	16 mm MSW											
NV3-MBW14-06-	14 mm MBW			1.50 (38.1)	1.50 (38.1)	1.25 (31.8)	1.50 (38.1)					
NV3-MBW16-06-	16 mm MBW											
NV3-UGM14-06-	14 mm UGM			2.92 (74.1)	2.92 (74.1)	2.55 (64.7)	2.92 (74.1)					
NV3-MS20-06-	M20 x 1.5 Male ISO			1.50 (38.1)	1.50 (38.1)	1.13 (28.6)	1.50 (38.1)					
NV3-MS22-06-	M22 x 1.5 Male ISO											
NV3-FNPT8-11-	1/2 Female NPT	0.433 (11.0)	1.8	1.56 (39.6)	1.56 (39.6)	1.31 (33.3)	1.56 (39.6)	3.50 (88.9)	0.78 (19.8)	1.91 (48.5)	11/32 (26.2)	4.85 (123)
NV3-FNPT12-11-	3/4 Female NPT			1.63 (41.3)	1.63 (41.3)							
NV3-FNPT16-11-	1 Female NPT			1.81 (46.0)	1.81 (46.0)	—	—					
NV3-NPT12-11-	3/4 Male NPT			1.63 (41.3)	1.63 (41.3)							
NV3-F8-11-	1/2" Hikelok			1.97 (50.0)	1.97 (50.0)	1.68 (42.7)	2.08 (52.8)					
NV3-F12-11-	3/4" Hikelok											
NV3-M14-11-	14 mm Hikelok											
NV3-M16-11-	16 mm Hikelok											
NV3-M18-11-	18 mm Hikelok											
NV3-M20-11-	20 mm Hikelok											
NV3-MSW14-11-	14 mm MSW			1.56 (39.7)	1.56 (39.7)	1.31 (33.3)	1.69 (42.9)					
NV3-MSW16-11-	16 mm MSW											
NV3-FSW8-11-	1/2" FSW											
NV3-FSW12-11-	3/4" FSW											
NV3-MBW14-11-	14 mm MBW											
NV3-MBW16-11-	16 mm MBW											
NV3-UGM14-11-	14 mm UGM			2.98 (75.7)	2.98 (75.7)	—	—					
NV3-MS27-11-	M27 x 2 Male ISO			1.56 (39.7)	1.56 (39.7)							

❖ If working pressure up to 10,000 psi, please refer to NV31 series.

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How to Order

NV3— FNPT8 — F8 — S06S — GY — LA — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Seat Material	Orifice Size	Tip Material	Tip Type	Packing Material	Panel Mounting	Handle	Flow Pattern	Body Material
NV3	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting **UGF** Nut + Gasket + Fractional Bulge Nipple **UGM** Nut + Gasket + Metric Bulge Nipple **FSW** Fractional Tube Socket Weld **MSW** Metric Tube Socket Weld **FBW** Fractional Tube Butt Weld **MBW** Metric Tube Butt Weld **PSW** Pipe Socket Weld **PBW** Pipe Butt Weld	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm **14** 14 mm or M14 x 1.5 **16** 1 in. or 16 mm **18** 18 mm **20** 1 1/4 in. or 20 mm or M20 x 1.5 **22** 22 mm or M22 x 1.5 **24** M24 x 1.5 **25** 25mm **27** M27 x 2 **28** 28mm	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator		Same as Body **S** Stellite	**04** 0.157 in. (4.0 mm) **06** 0.236 in. (6.0 mm) **11** 0.433 in. (11 mm) **15** 0.591 in. (15 mm) **20** 0.787 in. (20 mm)	Same as Body **S** Stellite	Blunt **R** Regulating **A** Ball	PTFE **G** Graphite	No **Y** Yes	Black Aluminum Bar **R** Red Aluminum Bar **G** Green Aluminum Bar **L** Blue Aluminum Bar **S** 304 Stainless Steel Bar	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S. **321** 321 S.S. **F91** F91 **F91** F92 **A400** Alloy 400 **A20** Alloy 20 **A600** Alloy 600 **A825** Alloy 825 **A276** Alloy C276 **DU7** Duplex 2507 **BR** Brass

Hikelo
Solution Provider For Fluid Sy

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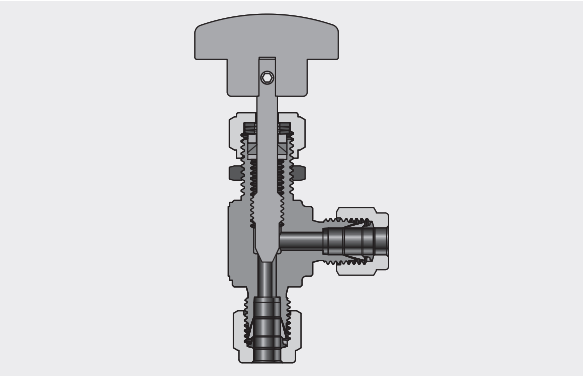
Hikelok
Solution Provider For Fluid Systems

Needle Valves-NV4 Series

- Maximum working pressure up to 5000 psig (344 bar)
- Live-Loaded Packing System
- Packing nut enables easy external adjustments
- Straight, angle and cross patterns
- Softseat stem with PCTFE tip available
- Panel mounting available
- Optional handle colors available



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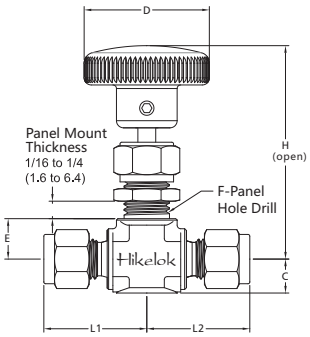

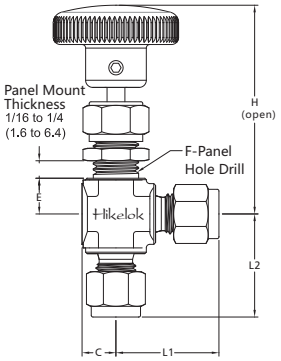

Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)						
				L1	L2	C	D	E	F	H
NV4-FNPT2-02-	1/8 Female NPT	0.08 (2.0)	0.09	0.81 (20.6)	0.81 (20.6)	0.31 (7.9)	1.0 (25.4)	0.44 (11.2)	0.47 (11.9)	2.28 (57.9)
NV4-F2-02-	1/8" Hikelok			0.98 (25.0)	0.98 (25.0)					
NV4-M3-02-	3 mm Hikelok									
NV4-FNPT2-04-	1/8 Female NPT	0.157 (4.0)	0.35	0.81 (20.6)	0.81 (20.6)	0.39 (9.9)	1.38 (35.0)	0.44 (11.2)	0.53 (13.5)	2.50 (63.5)
NV4-NPT2-04-	1/8 Male NPT									
NV4-NPT4-04-	1/4 Male NPT			0.98 (25.0)	0.98 (25.0)					
NV4-F4-04-	1/4" Hikelok			1.13 (28.7)	1.13 (28.7)					
NV4-M6-04-	6 mm Hikelok									
NV4-M8-04-	8 mm Hikelok			1.17 (29.7)	1.17 (29.7)					
NV4-FNPT4-06-	1/4 Female NPT	0.25 (6.4)	0.70	1.06 (26.9)	1.06 (26.9)	0.5 (12.7)	1.88 (47.8)	0.5 (12.7)	0.78 (19.8)	2.97 (75.4)
NV4-FNPT6-06-	3/8" Female NPT									
NV4-NPT6-06-	3/8 Male NPT			1.12 (28.4)	1.12 (28.4)					
NV4-NPT8-06-	1/2 Male NPT			1.50 (38.1)	1.50 (38.1)					
NV4-F6-06-	3/8" Hikelok			1.29 (32.8)	1.29 (32.8)					
NV4-F8-06-	1/2" Hikelok			1.4 (35.6)	1.4 (35.6)					
NV4-M10-06-	10 mm Hikelok			1.3 (33.0)	1.3 (33.0)					
NV4-M12-06-	12 mm Hikelok			1.4 (35.6)	1.4 (35.6)					
NV4-M14-06-	14 mm Hikelok			1.56 (39.7)	1.56 (39.7)					
NV4-MS20-06-	M20 x 1.5 Male ISO			1.50 (38.1)	1.50 (38.1)					
NV4-FNPT8-11-	1/2 Female NPT	0.375 (9.5)	1.80	1.50 (38.1)	1.50 (38.1)	0.75 (19.1)	3.00 (76.2)	0.75 (19.1)	1.03 (26.2)	3.91 (99.3)
NV4-FNPT12-11-	3/4 Female NPT			1.63 (41.3)	1.63 (41.3)					
NV4-NPT12-11-	3/4 Male NPT									
NV4-F8-11-	1/2" Hikelok			1.90 (48.3)	1.90 (48.3)					
NV4-F12-11-	3/4" Hikelok									
NV4-M14-11-	14 mm Hikelok									

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How to Order

NV4— FNPT8 — M12 — 06K — LA — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice Size	Tip Material	Tip Type	Handle	Flow Pattern	Body Material
NV4	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm **14** 14 mm or M14 x 1.5	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator		**02** 0.093 in. (2.4 mm) **04** 0.157 in. (4.0 mm) **06** 0.236 in. (6.0 mm) **11** 0.433 in. (11 mm)	Same as Body **K** PCTFE	Blunt **R** Regulating **A** Ball **T** PTFE **K** PCTFE **P** PEEK	Black Round **R** Red Round **G** Green Round **L** Blue Round	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S. **A400** Alloy 400 **A20** Alloy 20 **A600** Alloy 600 **A825** Alloy 825 **A276** Alloy C276 **DU7** Duplex 2507 **BR** Brass

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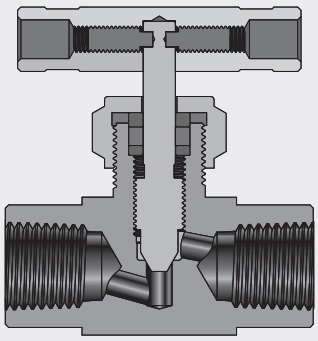
Needle Valves-NV5 Series

- Maximum working pressure up to 6000 psig (413 bar)
- Working temperature from -65°F to 600°F (-53°C to 315°C)
- Compact size design
- Packing nut enables easy external adjustments
- Straight and angle patterns
- Softseat stem with PCTFE tip available
- Optional handle colors available



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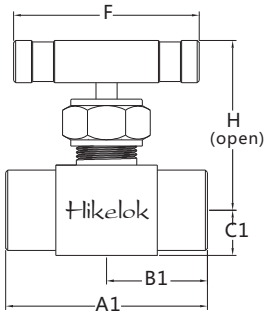

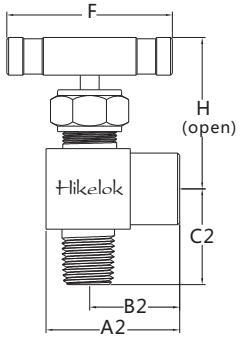

Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)							
				A1	A2	B1	B2	C1	C2	F	H
NV5 with soft-seat stem or PCTFE seat tip											
NV5-FNPT4-02-	1/4 Female Female NPT	0.08 (2.0)	0.09	1.88 (47.8)	—	0.94 (23.9)	—	0.42 (10.7)	—	1.75 (44.4)	1.66 (42.2)
NV5-NPT4-02-	1/4 Male Male NPT			1.94 (49.3)		0.97 (24.6)					
NV5-NPT4-FNPT4-02-	1/4 Male to Female NPT			1.91 (48.5)	1.44 (36.6)	0.94 (23.9)	1.00 (25.4)		1.03 (26.2)		
NV5 with vee stem											
NV5-F4-03-	1/4" Hikelok	0.125 (3.2)	0.21	2.46 (62.5)	1.57 (39.9)	1.23 (31.2)	1.13 (28.7)	0.42 (10.7)	1.16 (29.5)	1.75 (44.4)	1.66 (42.2)
NV5-F6-06-	3/8" Hikelok	0.25 (6.4)	0.73	3.08 (78.2)	—	1.54 (39.1)	—	0.66 (16.8)	—	2.50 (63.5)	2.31 (58.7)
NV5-F8-06-	1/2" Hikelok			3.30 (83.8)		1.65 (41.9)					
NV5-FNPT4-03-	1/4 Female NPT	0.125 (3.2)	0.21	1.88 (47.8)	1.44 (36.6)	0.94 (23.9)	1.00 (25.4)	0.42 (10.7)	1.00 (25.4)	1.75 (44.4)	1.66 (42.2)
NV5-FNPT6-06-	3/8 Female NPT	0.25 (6.4)	0.73	2.50 (63.5)	—	1.25 (31.8)	—	0.66 (16.8)	—	2.50 (63.5)	2.31 (58.7)
NV5-FNPT8-06-	1/2 Female NPT				2.06 (52.3)		1.41 (35.8)		1.41 (35.8)		
NV5-NPT4-03-	1/4 Male NPT	0.125 (3.2)	0.21	1.94 (49.3)	—	0.97 (24.6)	—	0.42 (10.7)	—	1.75 (44.4)	1.66 (42.2)
NV5-NPT4-F4-03-	1/4 Male NPT to 1/4"Hikelok			—	1.57 (39.9)	—	1.13 (28.7)	—	1.00 (25.4)		
NV5-NPT4-FNPT4-03-	1/4 Male to Female NPT			1.91 (48.5)	1.44 (36.6)	0.94 (23.9)	1.00 (25.4)	0.42 (10.7)	1.03 (26.2)		
NV5-NPT6-FNPT6-06-	3/8 Male to Female NPT	0.25 (6.4)	0.73	2.50 (63.5)	2.06 (52.3)	1.25 (31.8)	1.41 (35.8)	0.66 (16.8)	1.22 (31.0)	2.50 (63.5)	2.31 (58.7)
NV5-NPT8-FNPT8-06-	1/2 Male to Female NPT			2.55 (64.8)					1.41 (35.8)		
NV5-NPT12-FNPT8-06-	3/4 Male to 1/2 Female NPT			2.50 (63.5)	—		—		—		
NV5-FBT4-03-	1/4 Female BSPT	0.125 (3.2)	0.21	1.88 (47.8)	—	0.94 (23.9)	—	0.42 (10.7)	—	1.75 (44.4)	1.66 (42.2)
NV5-FBT8-06-	1/2 Female BSPT	0.25 (6.4)	0.73	2.50 (63.5)		1.25 (31.8)		0.66 (16.8)		2.50 (63.5)	2.31 (58.7)

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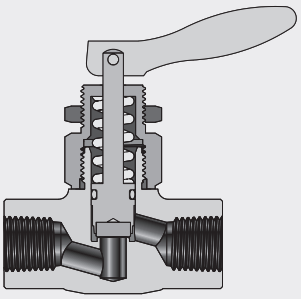
How to Order

NV5 — FNP4 — FNPT4 — 03R — LA — 316

Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Orifice Size	Tip Type	Handle	Flow Pattern	Body Material
NV5	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm **14** 14 mm or M14 x 1.5	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator		**02** 0.08 in. (2.0 mm) **03** 0.125 in. (3.2 mm) **06** 0.250 in. (6.4 mm)	Blunt **R** Regulating **T** PTFE **K** PCTFE **P** PEEK	Black Aluminum Bar **R** Red Aluminum Bar **G** Green Aluminum Bar **L** Blue Aluminum Bar **S** 304 Stainless Steel Bar	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S.

Needle Valves-NV6 Series

- Maximum working pressure up to 300 psig (20.6 bar)
- One-piece forged body
- Straight and angle flow patterns
- Opens and closes quickly
- Soft-seat shutoff
- O-ring stem seal needs no adjustment



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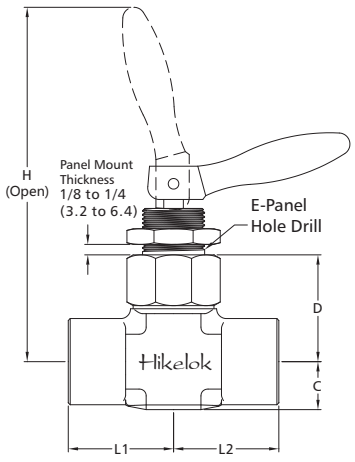

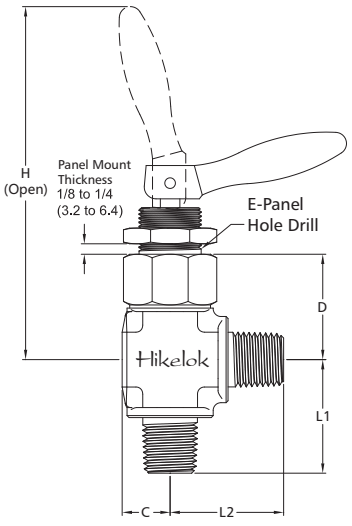

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Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)					
				L1	L2	C	D	E	H
NV6-NPT2-02-	1/8 Male NPT	0.08 (2.0)	0.11	0.75 (19.0)	0.75 (19.0)	0.31 (7.9)	0.92 (23.4)	0.53 (13.5)	2.87 (72.9)
NV6-NPT2-F2-02-	1/8 Male NPT			0.75 (19.0)	0.98 (25.0)				
NV6-F2-02-	1/8" Hikelok			0.98 (25.0)	0.98 (25.0)				
NV6-M3-02-	3 mm Hikelok								
NV6-FNPT2-03-	1/8 Female NPT	0.125 (3.2)	0.20	0.81 (20.6)	0.81 (20.6)	0.39 (9.9)	0.92 (23.4)	0.53 (13.5)	2.87 (72.9)
NV6-NPT2-03-	1/8 Male NPT			0.86 (21.8)	0.86 (21.8)				
NV6-NPT4-03-	1/4 Male NPT			25.0 (0.98)	25.0 (0.98)				
NV6-NPT4-F4-03-	1/4 Male NPT			25.0 (0.98)	1.13 (28.7)				
NV6-F4-03-	1/4" Hikelok			1.13 (28.7)					
NV6-M6-03-	6 mm Hikelok								
NV6-M8-03-	8 mm Hikelok								
NV6-FNPT4-06-	1/4 Female NPT	0.25 (6.4)	0.70	1.06 (26.9)	1.06 (26.9)	0.5 (12.7)	1.06 (26.9)	0.66 (16.8)	3.56 (90.4)
NV6-FNPT6-06-	3/8 Female NPT								
NV6-NPT6-06-	3/8 Male NPT			1.12 (28.4)	1.12 (28.4)				
NV6-F6-06-	3/8" Hikelok			1.29 (32.8)	1.29 (32.8)				
NV6-F8-06-	1/2" Hikelok			1.4 (35.6)	1.4 (35.6)				
NV6-M10-06-	10 mm Hikelok			1.36 (34.5)	1.36 (34.5)				
NV6-M12-06-	12 mm Hikelok			1.46 (37.1)	1.46 (37.1)				
NV6-MS20-06-	M20 x 1.5 Male ISO			1.50 (38.1)	1.50 (38.1)				
NV6-MS22-06-	M22 x 1.5 Male ISO								

How to Order

NV6— NPT4 — F4 — 03 — Z — A — 316

Series	Inlet Type	Inlet Size	Outlet Type / Outlet Size	Orifice Size	O-Ring Material	Flow Pattern	Body Material
NV6	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator	**02** 0.080 in. (2.0 mm) **03** 0.125 in. (3.2 mm) **06** 0.25 in. (6.4 mm)	Fluorocarbon FKM **B** Buna N **E** Ethylene Propylene **N** Neoprene **Z** Kalrez	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S.

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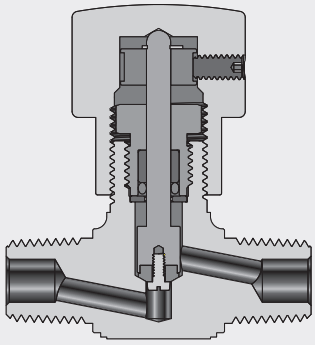
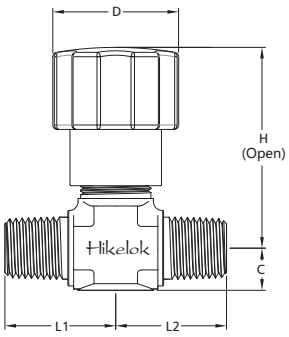
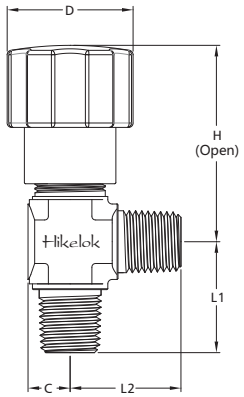
Needle Valves-NV7 Series

- Maximum working pressure up to 3000 psig (206 bar)
- One-piece forged body
- Straight and angle patterns
- Nonrotating stem provides repetitive shutoff
- Protective handle prevents contaminants from entering
- Actuation threads isolated from system
- Optional handle colors available



Dimensions





Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)				
				L1	L2	C	D	H
NV7-NPT2-02-	1/8 Male NPT	0.09 (2.4)	0.12	0.75 (19.0)	0.75 (19.0)	0.31 (7.9)	1.06 (26.9)	1.86 (47.2)
NV7-NPT2-F2-02-	1/8 Male NPT to 1/8" Hikelok			0.75 (19.0)	1.1 (27.9)			
NV7-F2-02-	1/8" Hikelok			1.1 (27.9)	1.1 (27.9)			
NV7-M3-02-	3 mm Hikelok							
NV7-FNPT2-04-	1/8 Female NPT	0.156 (4.0)	0.27	0.81 (20.6)	0.81 (20.6)	0.39 (9.9)	1.06 (26.9)	1.86 (47.2)
NV7-NPT2-04-	1/8 Male NPT			0.86 (21.8)	0.86 (21.8)			
NV7-NPT4-04-	1/4 Male NPT			25.0 (0.98)	25.0 (0.98)			
NV7-NPT4-F4-04-	1/4 Male NPT to 1/4" Hikelok			25.0 (0.98)	1.13 (28.7)			
NV7-F4-04-	1/4" Hikelok			1.13 (28.7)				
NV7-M6-04-	6 mm Hikelok							
NV7-M8-04-	8 mm Hikelok							
NV7-FNPT4-06-	1/4 Female NPT	0.218 (5.6)	0.53	1.06 (26.9)	1.06 (26.9)	0.5 (12.7)	1.12 (28.4)	2.02 (51.3)
NV7-FNPT6-06-	3/8 Female NPT							
NV7-NPT6-06-	3/8 Male NPT			1.12 (28.6)	1.12 (28.6)			
NV7-F6-06-	3/8" Hikelok			1.29 (32.8)	1.29 (32.8)			
NV7-F8-06-	1/2" Hikelok			1.4 (35.6)	1.4 (35.6)			
NV7-M10-06-	10 mm Hikelok			1.3 (33.0)	1.3 (33.0)			
NV7-M12-06-	12 mm Hikelok			1.4 (35.6)	1.4 (35.6)			
NV7-MS20-06-	M20 x 1.5 Male ISO			1.50 (38.1)	1.50 (38.1)			
NV7-MS22-06-	M22 x 1.5 Male ISO							

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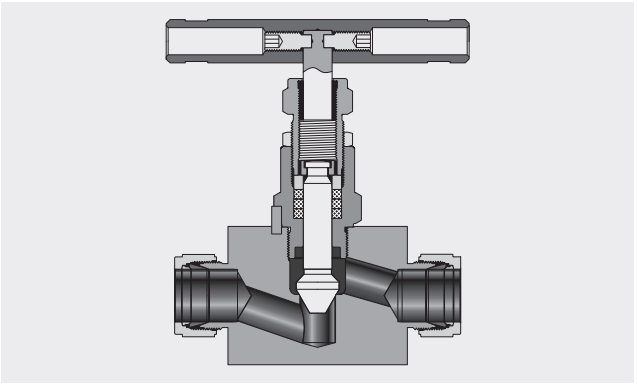
How to Order

NV7— NPT8 — F6 — 06P — Z — LA — 316

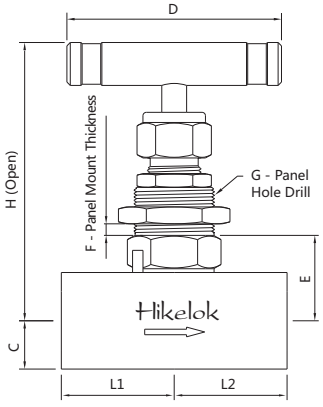
Series	Inlet Type	Inlet Size	Outlet Type / Outlet Size	Orifice Size	Tip Material	O-Ring Material	Handle	Flow Pattern	Body Material
NV7	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting	**2** 1/8in. **4** 1/4in. **6** 3/8in. or 6 mm **8** 1/2in. or 8 mm **10** 10 mm **12** 3/4in. or 12 mm	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator	**02** 0.093 in. (2.4 mm) **04** 0.157 in. (4.0 mm) **06** 0.218 in. (5.6 mm)	PCTFE **P** PEEK	Fluorocarbon FKM **B** Buna N **E** Ethylene Propylene **N** Neoprene **Z** Kalrez	Black Round **R** Red Round **G** Green Round **L** Blue Round	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S. **A400** Alloy 400 **A20** Alloy 20 **BR** Brass

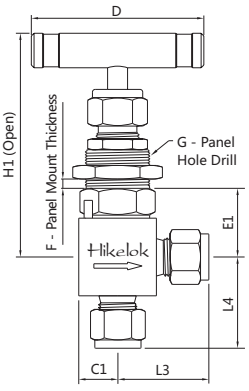
Needle Valves-NV8 Series

- Maximum working pressure up to 6000 psig (413 bar)
- Bar stock valve body
- Straight and angle patterns
- Upper stem and lower stem design, Stem threads above packing protected from system media
- Two-piece knuckle joint provides nonrotating needle feature
- Nonrotating, hardened needle for positive shutoff
- Safety back-seating in fully open position
- Optional handle colors available



Dimensions





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Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)												
				L1	L2	L3	L4	C	C1	D	E	E1	F	G	H	H1
NV8-FNPT2-04-	1/8 Female NPT	0.157 (4.0)	0.35	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	0.563 (14.3)	0.5 (12.7)	0.5 (12.7)	2.17 (55)	0.84 (21.4)	0.9 (23.0)	0.25 (6.4)	0.77 (19.6)	2.85 (72.4)	2.91 (74.0)
NV8-FNPT4-04-	1/4 Female NPT			1.06 (26.9)	1.06 (26.9)							0.84 (21.4)				2.85 (72.4)
NV8-NPT4-04-	1/4 Male NPT			1.03 (26.2)	1.03 (26.2)	1.06 (26.9)	1.06 (26.9)									
NV8-NPT6-04-	3/8 Male NPT			1.19 (30.2)	1.19 (30.2)											
NV8-F4-04-	1/4" Hikelok			1.20 (30.5)	1.20 (30.5)	1.20 (30.5)	1.20 (30.5)									
NV8-M6-04-	6 mm Hikelok															
NV8-M8-04-	8 mm Hikelok															
NV8-OFS4-04-	1/4" Male OFS			1.03 (26.2)	1.03 (26.2)	—	—									
NV8-GFS4-04-	1/4" Male GFS															
NV8-FNPT4-06-	1/4 Female NPT	0.236 (6.0)	0.85	1.12 (28.6)	1.12 (28.6)	1.12 (28.6)	0.63 (15.9)	0.563 (14.3)	0.563 (14.3)	2.5 (63.5)	1.0 (25.4)	1.06 (27.0)	0.38 (9.7)	0.96 (24.4)	3.5 (88.9)	3.56 (90.5)
NV8-FNPT6-06-	3/8 Female NPT											1.0 (25.4)				3.5 (88.9)
NV8-NPT6-06-	3/8 Male NPT						1.12 (28.6)									
NV8-F6-06-	3/8" Hikelok			1.41 (35.8)	1.41 (35.8)	1.32 (33.6)	1.32 (33.6)									
NV8-F8-06-	1/2" Hikelok			1.52 (38.6)	1.52 (38.6)	1.42 (36.1)	1.42 (36.1)									
NV8-M10-06-	10 mm Hikelok			1.42 (36.1)	1.42 (36.1)	1.33 (33.8)	1.33 (33.8)									
NV8-M12-06-	12 mm Hikelok			1.52 (38.6)	1.52 (38.6)	1.42 (36.1)	1.42 (36.1)									
NV8-M14-06-	14 mm Hikelok			1.56 (39.7)	1.56 (39.7)											
NV8-FSW6-06-	3/8" FSW			1.13 (28.6)	1.13 (28.6)	1.13 (28.6)	1.13 (28.6)									
NV8-FSW8-06-	1/2" FSW															
NV8-MSW12-06-	12 mm MSW															
NV8-MSW14-06-	14 mm MSW															
NV8-MSW16-06-	16 mm MSW															
NV8-MBW14-06-	14 mm MBW			1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)									
NV8-MBW16-06-	16 mm MBW															
NV8-UGM14-06-	14 mm UGM			2.92 (74.1)	2.92 (74.1)	—	—									
NV8-UGM16-06-	16 mm UGM															
NV8-OFS8-06-	1/2" Male OFS			1.13 (28.6)	1.13 (28.6)											
NV8-GFS8-06-	1/2" Male GFS			1.56 (39.7)	1.56 (39.7)											
NV8-MS20-06-	M20 x 1.5 Male ISO			1.50 (38.1)	1.50 (38.1)											
NV8-MS22-06-	M22 x 1.5 Male ISO															
NV8-FNPT8-11-	1/2 Female NPT	0.433 (11.0)	2.18	1.75 (44.5)	1.75 (44.5)	1.63 (41.3)	1.50 (38.1)	0.875 (22.2)	0.75 (19.05)	3.5 (88.9)	1.38 (34.9)	1.25 (31.75)	0.38 (9.7)	1.08 (27.5)	4.12 (104.8)	4.0 (101.6)
NV8-FNPT12-11-	3/4 Female NPT															
NV8-NPT12-11-	3/4 Male NPT					1.50 (38.1)										
NV8-F12-11-	3/4" Hikelok			1.97 (50.0)	1.97 (50.0)	1.61 (41.0)	1.61 (41.0)									
NV8-M14-11-	14 mm Hikelok															
NV8-M16-11-	16 mm Hikelok															
NV8-M18-11-	18 mm Hikelok															
NV8-MSW14-11-	14 mm MSW			1.75 (44.5)	1.75 (44.5)	—	—									
NV8-MSW16-11-	16 mm MSW															
NV8-FSW12-11-	3/4" FSW															
NV8-MBW14-11-	14 mm MBW															
NV8-MBW16-11-	16 mm MBW															
NV8-UGM14-11-	14 mm UGM			2.98 (75.7)	2.98 (75.7)											
NV8-OFS12-11-	3/4" Male OFS			1.56 (39.7)	1.56 (39.7)											
NV8-GFS8-11-	1/2" Male GFS															
NV8-MS27-11-	M27 x 2 Male ISO															

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Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Cv	Dimension, in. (mm)												
				L1	L2	L3	L4	C	C1	D	E	E1	F	G	H	H1
NV8-FNPT12-15-	3/4 Female NPT	0.591 (15.0)	3.27	1.75 (44.5)	1.75 (44.5)	1.75 (44.5)	1.14 (29.0)	1.14 (29.0)	0.875 (22.2)	5.0 (127)	1.7 (43.2)	1.43 (36.4)	0.38 (9.7)	1.28 (32.5)	5.0 (127)	4.72 (120)
NV8-FSW16-15-	1" FSW															
NV8-MSW25-15-	25 mm MSW															
NV8-MSW28-15-	28 mm MSW															
NV8-PSW12-15-	3/4 PSW															
NV8-M20-15-	20 mm Hikelok			2.35 (59.7)	2.35 (59.7)	2.35 (59.7)	2.0 (51.0)									
NV8-M22-15-	22 mm Hikelok															
NV8-FNPT16-20-	1 Female NPT	0.787 (20.0)	5.65	1.97 (50.0)	1.97 (50.0)	—	—	1.25 (31.75)	—	5.5 (140)	—	—	—	—	5.2 (132)	—
NV8-MSW25-20-	25 mm MSW															
NV8-FSW16-20-	1" FSW															
NV8-MSW28-20-	28 mm MSW															
NV8-PSW12-20-	3/4 PSW															
NV8-PSW16-20-	1 PWS															

❖ If working pressure up to 10,000 psi, please refer to NV81 series.

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How to Order

NV8 — MBW8 — M12 — S06S — GY — LA — 316

Series	Inlet Type	Inlet Size	Outlet Type / Outlet Size	Seat Material	Orifice Size	Tip Material	Tip Type	Packing Material	Panel Mounting	Handle	Flow Pattern	Body Material
NV8	**FNPT** Female NPT **NPT** Male NPT **FBT** Female BSPT **MBT** Male BSPT **FMS** Female ISO **MS** Male ISO **FBP** Female BSPP **MBP** Male BSPP **F** Fractional Tube Fitting **M** Metric Tube Fitting **UGF** Nut + Gasket + Fractional Bulge Nipple **UGM** Nut + Gasket + Metric Bulge Nipple **FSW** Fractional Tube Socket Weld **MSW** Metric Tube Socket Weld **FBW** Fractional Tube Butt Weld **MBW** Metric Tube Butt Weld **PSW** Pipe Socket Weld **PBW** Pipe Butt Weld	**2** 1/8 in. **4** 1/4 in. **6** 3/8 in. or 6 mm **8** 1/2 in. or 8 mm **10** 10 mm **12** 3/4 in. or 12 mm **14** 14 mm or M14 x 1.5 **16** 1 in. or 16 mm **18** 18 mm **20** 1 1/4 in. or 20 mm or M20 x 1.5 **22** 22 mm or M22 x 1.5 **24** M24 x 1.5 **25** 25mm **27** M27 x 2 **28** 28mm	Same as inlet type and inlet size If outlet and inlet are the same, eliminate the outlet designator	Same as Body **S** Stellite	**04** 0.157 in. (4.0 mm) **06** 0.236 in. (6.0 mm) **11** 0.433 in. (11 mm) **15** 0.591 in. (15 mm) **20** 0.787 in. (20 mm)	Same as Body **S** Stellite	Blunt **R** Regulating **A** Ball **T** PTFE **K** PCTFE **P** PEEK	PTFE **G** Graphite	No **Y** Yes	Black Aluminum Bar **R** Red Aluminum Bar **G** Green Aluminum Bar **L** Blue Aluminum Bar **S** 304 Stainless Steel Bar	Straight **A** Angle	**316** 316 S.S. **316L** 316L S.S **304** 304 S.S. **304L** 304L S.S. **321** 321 S.S. **F91** F91 **F91** F92 **A400** Alloy 400 **A20** Alloy 20 **A600** Alloy 600 **A825** Alloy 825 **A276** Alloy C276 **DU7** Duplex 2507 **BR** Brass

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