

Игольчатые клапаны NV1

Технические характеристики

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Features

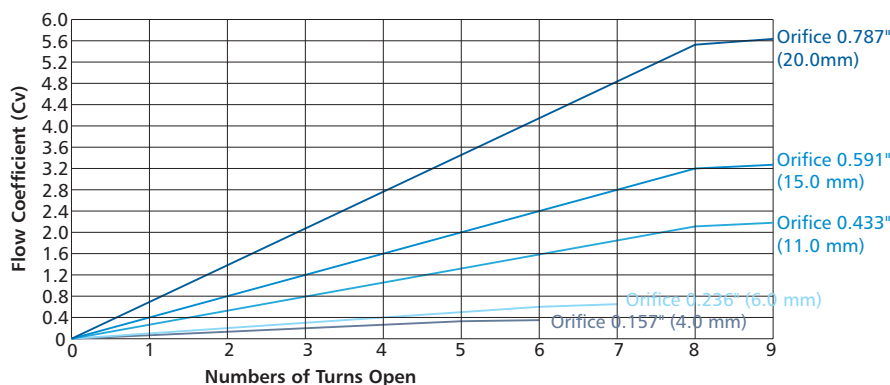
- ❖ Maximum working pressure up to 6000 psig (413 bar)
- ❖ Working temperature from -65°F to 1200°F (-53°C to 648°C)
- ❖ One-piece forged body
- ❖ Straight and angle patterns
- ❖ Upper stem and lower stem design, Stem threads above packing protected from system media
- ❖ Panel mounting available
- ❖ optional handle colors available

Pressure vs. Temperature

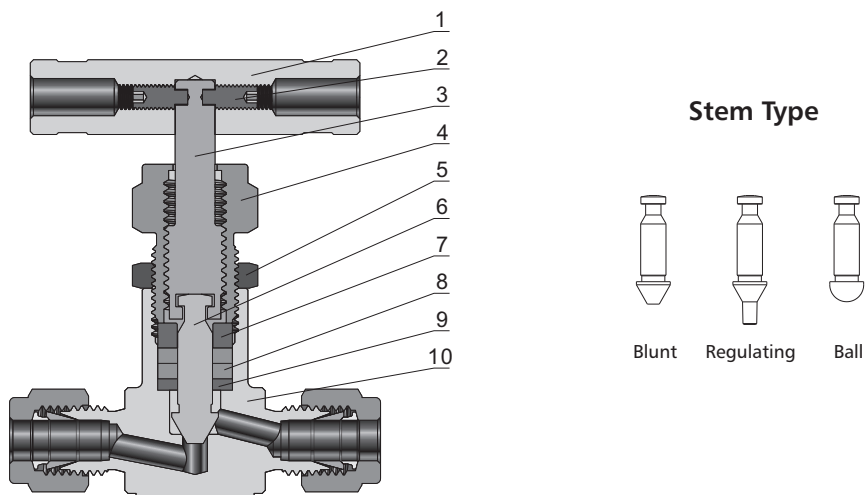
ASME Class	2500						N/A
Material Group	2. 2	2. 2	2. 8	3. 4	3. 1	3. 5	N/A
Material Name	316 S.S.	316H S.S.	F53 S.S.	Alloy 400	Alloy 20	Alloy 600	Alloy C-276
Temperature, °F (°C)	Working Pressure, psig (bar)						
-65 (-53) to 100 (37)	6000 (413)	6000 (413)	6000 (413)	5000 (344)	5000 (344)	6000 (413)	6000 (413)
200 (93)	5160 (355)	5160 (355)	5160 (355)	4400 (303)	4640 (319)	5600 (385)	6000 (413)
250 (121)	4910 (338)	4910 (338)	5350 (368)	4260 (293)	4500 (310)	5460 (376)	6000 (413)
300 (148)	4660 (321)	4660 (321)	5540 (382)	4120 (283)	4360 (300)	5320 (366)	6000 (413)
350 (176)	4470 (307)	4470 (307)	5330 (367)	4050 (279)	4185 (288)	5220 (359)	5975 (411)
400 (204)	4280 (294)	4280 (294)	5120 (353)	3980 (274)	4010 (276)	5120 (352)	5880 (405)
450 (232)	4130 (284)	4130 (284)	4960 (342)	3970 (273)	3955 (272)	5030 (346)	5710 (393)
500 (260)	3980 (274)	3980 (274)	4800 (331)	3960 (272)	3900 (268)	4940 (340)	5540 (381)
600 (315)	3760 (259)	3760 (259)	4640 (320)	—	3790 (261)	4780 (329)	5040 (347)
650 (343)	3700 (254)	3700 (254)	4580 (315)	—	3750 (258)	4700 (323)	4905 (337)
700 (371)	3600 (248)	3600 (248)	4520 (311)	—	3710 (255)	4640 (319)	4730 (325)
750 (398)	3520 (242)	3520 (242)	4430 (305)	—	3665 (252)	4430 (305)	4430 (305)
800 (426)	3460 (238)	3460 (238)	—	—	3600 (248)	4230 (291)	4230 (291)
850 (454)	3380 (232)	3380 (232)	—	—	—	4060 (279)	4060 (279)
900 (482)	3280 (225)	3280 (225)	—	—	—	3745 (258)	3745 (258)
950 (510)	3220 (221)	3220 (221)	—	—	—	2725 (187)	3220 (221)
1000 (537)	3030 (208)	3030 (208)	—	—	—	1800 (124)	3030 (208)
1050 (565)	3000 (206)	3000 (206)	—	—	—	1155 (79.5)	3000 (206)
1100 (593)	2685 (184)	2685 (184)	—	—	—	770 (53.0)	2685 (184)
1150 (621)	2285 (157)	2285 (157)	—	—	—	565 (38.9)	2285 (157)
1200 (648)	1715 (118)	1715 (118)	—	—	—	515 (35.4)	1545 (106)

Flow Data at 100°F (38°C)

Regulating Stem



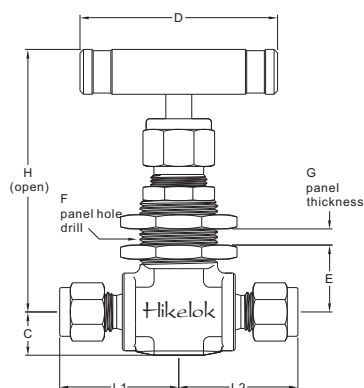
Standard Materials of Construction



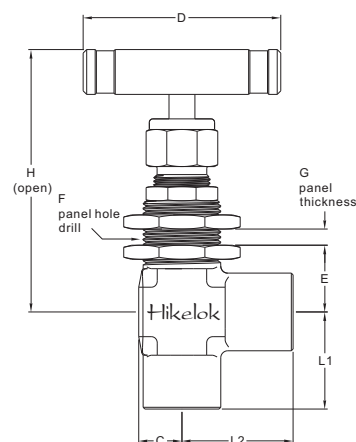
Component		Material Grade/ASTM Specification			
		316 S.S.	F91	F92	Brass
1	Handle	Anodized aluminum or stainless steel			
2	Screw	304 S.S.			
3	Upper Stem	316 S.S. / A276	F91/A182	F91/A182	Brass 360/B16
4	Packing Bolt	316 S.S. / A479			
5	Nut	316 S.S./B783			
6	Lower Stem	Chrome-plated 316 S.S. / A276	Chrome-plated F91/A182	Chrome-plated F91/A182	Chrome-plated 316 S.S. / A276
7	Gland	316 S.S. / A276	F91/A182	F91/A182	Brass 360/B16
8	Packing	PTFE or PEEK or graphite			
9	Packing Washer	316 S.S. / A276	F91/A182	F91/A182	Brass 360/B16
10	Body	316 S.S. / A182	F91/A182	F91/A182	Brass 377/B283

Dimensions

Straight Pattern



Angle Pattern



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			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			1.13 (28.6)	1.13 (28.6)						
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										

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)							
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					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-M25-11-	25 mm Hikelok											
NV1-MSW14-11-	14 mm MSW											
NV1-MSW16-11-	16 mm MSW											
NV1-MSW18-11-	18 mm MSW			1.56 (39.7)	1.56 (39.7)							
NV1-FSW12-11-	3/4" FSW											
NV1-FSW8-11-	1/2" FSW											
NV1-MBW14-11-	14 mm MBW											
NV1-MBW16-11-	16 mm MBW			2.98 (75.7)	2.98 (75.7)							
NV1-UGM14-11-	14 mm UGM											
NV1-UGM16-11-	16 mm UGM											
NV1-MS27-11-	M27 x 2 Male ISO											
NV1-FNPT12-15-	3/4 Female NPT	0.591 (15.0)	3.27	1.97 (50.0)	1.97 (50.0)							
NV1-FSW16-15-	1" FSW											
NV1-MSW25-15-	25 mm MSW											
NV1-MSW28-15-	28 mm MSW			2.35 (59.7)	2.35 (59.7)	6.5 (165)	5.0 (127)	1.3 (33.0)	1.61 (41.0)	0.38 (9.7)	1.45 (36.8)	
NV1-F12-15-	3/4" Hikelok											
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											

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	Same as inlet type and inlet size	2 1/8 in.	Same as Body S Stellite	04 0.157 in. (4.0 mm)	Same as Body S Stellite	Blunt	PTFE	No	Black Aluminum Bar	Straight	316 316 S.S.														
	NPT	Male NPT												4 1/4 in.	06 0.236 in. (6.0 mm)	R Regulating	G Graphite	Y Yes	Red Aluminum Bar	A Angle	316L 316L S.S.						
	FBT	Female BSPT	If outlet and inlet are the same, eliminate the outlet designator	3/8 in. or 6 mm		11 0.433 in. (11 mm)	A Ball					Green Aluminum Bar		304 304 S.S.													
	MBT	Male BSPT													8 1/2 in. or 8 mm	15 0.591 in. (15 mm)	L Blue Aluminum Bar		304L 304L S.S.								
	FMS	Female ISO 261				10 10 mm	20 0.787 in. (20 mm)							304 Stainless Steel Bar		321 321 S.S.											
	MS	Male ISO 261															F91 F91		304 304 S.S.								
	FBP	Female BSPP				12 3/4 in. or 12 mm											F91 F92										
	MBP	Male BSPP				14 14 mm or M14 x 1.5																					
	F	Fractional Tube Fitting				16 1 in. or 16 mm																					
		Metric Tube Fitting																									
	M	Metric Tube Fitting				18 18 mm																					
		Nut + Gasket + Fractional Bulge Nipple																									
	UGF	Nut + Gasket + Fractional Bulge Nipple				1 1/4 in. or 20 mm or M20 x 1.5																					
		Nut + Gasket + Metric Bulge Nipple																									
	UGM	Nut + Gasket + Metric Bulge Nipple				22 22 mm or M22 x 1.5																					
		Fractional Tube Socket Weld																									
	FSW	Fractional Tube Socket Weld				24 M24 x 1.5																					
		Metric Tube Socket Weld																									
MSW	Metric Tube Socket Weld	25 25mm																									
	Fractional Tube Butt Weld																										
FBW	Fractional Tube Butt Weld	27 M27 x 2																									
	Metric Tube Butt Weld																										
MBW	Metric Tube Butt Weld	28 28mm																									
	Pipe Socket Weld																										
PSW	Pipe Socket Weld																										
	Pipe Butt Weld																										
PBW	Pipe Butt Weld																										

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