NVCF SERIES CONTROL VALVE FLANGED END



NVCF SERIES

NVCF control valve flanged end is mainly use in the HVAC system to regulate the flow of water and stream in response to the demand of a controller.

PRODUCT FEATURE

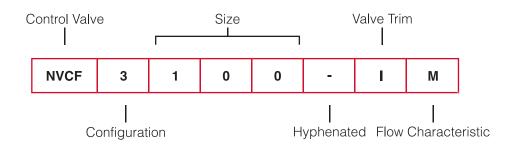
- Complete range from DN 65 to DN 150
- 2 Way and 3 Way Mixing or Diverting
- Cast Iron
- Low leakage factor of up to 0.05%
- High close-off pressure actuator satisfies demanding requirements of high-rise buildings and high pressure pumping systems
- PN 16 or 232 PSI system operation pressure
- Actuator can be factory or field installed
- Equal percentage flow characteristic

TECHNICAL SPECIFICATION

VALVE BODY PRESSURE RATING	232 psig (PN16 or 1,600 kPa) Meets Requirements of ANSI B16.15, Class 250, EN1561			
FLUID / AMBIENT TEMPERATURE LIMIT	2 to 120°C water at an Ambient temperature of 40°C			
SHIPPING & STORAGE TEMPERATURE LIMIT	-40 to 70°C (-40 to 158°F)			
BODY SIZE	See TABLE 1: VALVE CODE NUMBER DESIGNATION			
SERVICE	Chilled, Hot Water and Steam, up to 50% Glycol Solutions			
SEAT LEAKAGE	0.05%			
FACE TO FACE DIMENSION	Meet requirement of DIN EN 1092-2			
VALVE STROKE	DN 65 to DN 150			
		Body	Cast Iron	
BODY MATERIAL	Iron Trim	Stem	Stainless Steel	
BODT MATERIAL		Seat	Stainless Steel	
		Seal	PTFE	



TABLE 1: VALVE CODE NUMBER DESIGNATION



VALVE BODY TYPE	VB = NVCF Series Flanged End	
	2 = 2 - Way	
CONFIGURATION	3 = 3 - Way	
	065 = DN65	
	080 = DN80	
VALVE SIZE	100 = DN 100	
	125 = DN 125	
	150 = DN 150	
VALVE TRIM [IRON TRIM AVAILABLE FROM DN 65 TO DN100]	I = Iron Trim	
FLOW CHARACTERISTIC	M = Mixing (2 in, 1 out)	
(FOR 3-WAY VALVE ONLY)	D = Diverting (1 in, 2 out)	

To Order

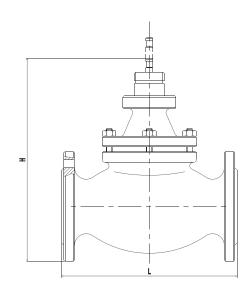
Specify the code number from the Valve Code Number Selection Guide.

Repair Parts

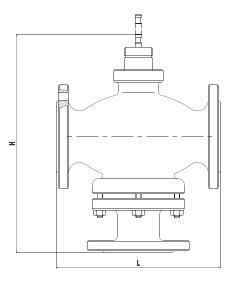
Available repair parts for NVCF Series Valves include replacement valve bodies and replacement actuators. No other field repairs should be attempted.

TABLE 2: DIMENSION OF VALVE BODY (mm)

TRIM	DN (mm)	L	н	H1	H2	НЗ	D	D1	BOLT HOLE
2-Way	65	290	341	66	39	93	185	145	4 x Φ18
	80	310	366	66	39	100	200	160	8 x Φ18
	100	350	390	66	39	110	220	180	8 x Φ18
	125	400	465	66	39	125	250	210	8 x Φ18
	150	480	516	66	39	143	285	240	8 x Φ22
3-Way	65	290	333	66	39	165	185	145	4 x Φ18
	80	310	358	66	39	180	200	160	8 x Φ18
	100	350	403	66	39	195	220	180	8 x Φ18
	125	400	500	66	39	230	250	210	8 x Φ18
	150	480	558	66	39	325	285	240	8 x Φ22



2-Way Valve



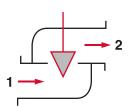
3-Way Valve



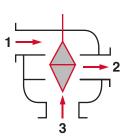
TABLE 3: FLOW RATE, KV FACTOR AND MAXIMUMCLOSE-OFF PRESSURE (KPA) FOR PDTC 2-WAYAND 3-WAY ELECTRICALLY ACTUATED VALVE

VALVE SIZE (mm)	DN65	DN80	DN100	DN125	DN150		
FLOW RATE (KV)	63	100	160	250	400		
VALVE STROKE (mm)	Max 39 mm						
STROKE TIME (sec)	90 - 180 seconds						
MAXIMUM SHUTOFF PRESSURE (KPA)							
MODEL	DN65	DN80	DN100	DN125	DN150		
NAV 18	340	150	90	-	-		
NAV 30	-	_	270	600	600		

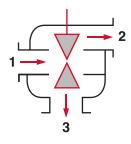
FLOW CHARACTERISTIC



2-Way Valve PTDC



3-Way Valve Mixing



3-Way Valve Diverting

APPLICATION OVERVIEW

The NVCF control Valve feature Iron Body are available in two-way configurations with Push-Down-to-Close (PDTC – normally open) with Flanged End. The Valve can be ordered with NENUTEC Valve Actuator NAV... and NTC controller for a complete HVAC solution.

The performance specifications are nominal and conform to acceptable industry standards. NENUTEC shall not be liable for damages resulting from misapplication or misuse of its products.