

NVCS SERIES CONTROL VALVE SCREWED END



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NVCS SERIES CONTROL VALVE SCREWED END



NVCS SERIES

NVCS screwed end control valve is mainly use in the HVAC system to regulate the flow of water and steam in response to the demand of a controller.

PRODUCT FEATURE

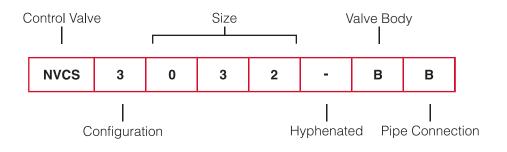
- Complete range from DN 15 to DN 50
- 2 Way and 3 Way Mixing or Diverting
- Forged brass body
- Low leakage factor of up to 0.05%
- High close-off pressure actuator satisfies demanding requirements of high-rise buildings and high pressure pumping systems
- PN 16 or 232 PSI system operating pressure
- 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				
FLUID / AMBIENT TEMPERATURE LIMIT	2 to 120°C water at an Ambient temperature of 40°C 2 to 180°C water / steam at an Ambient temperature of 40°C (With Cooling Fin)				
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				
POWER SUPPLY	24AC or 230 VAC ±10%, 50Hz				
SEAT LEAKAGE	0.05%				
PIPE CONNECTION	BSP				
MAXIMUM CLOSE OFF PRESSURE	See TABLE 3: FLOW RATE, KV FACTOR AND MAXIMUM CLOSE-OFF PRESSURE (KPA) 2-WAY AND 3-WAY ELECTRICALLY ACTUATED VALVE				
		Body	Forged Brass		
BODY MATERIAL	Brass	Stem	Stainless Steel		
BODY MATERIAL		Seat	Stainless Steel		
		Seal	PTFE		
VALVE STROKE	Brass	DN 15 to 50	Max 20 mm		



TABLE 1: VALVE CODE NUMBER DESIGNATION



VALVE BODY TYPE	VB = NVCS Screwed Valve Body		
CONFIGURATION	2 = 2 - Way		
CONFIGURATION	3 = 3 - Way		
VALVE SIZE	015 = DN15		
	020 = DN20		
	025 = DN25		
	032 = DN32		
	040 = DN40		
	050 = DN50		
VALVE BODY	B = Brass Body		
PIPE CONNECTION	B = BSP		
	N = NPT		
FLOW CHARACTERISTIC	M = Mixing (2 in, 1 out)		
(FOR 3-WAY VALVE ONLY)	D = Diverting (1 in, 2 out)		

To Order

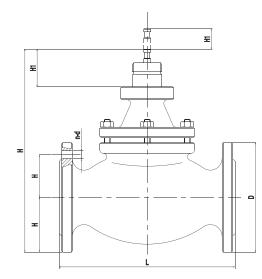
Specify the code number from the Valve Code Number Selection Guide.

Repair Parts

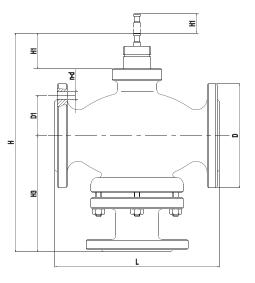
Available repair parts for NVCS Series Valves include replacement valve bodies and replacement actuators. No other field repairs should be attempted.

TABLE 2: DIMENSION OF VALVE BODY (mm)

TRIM	DN (mm)	L	н	H1	H2	H3
Brass	20	80	170	21-31	15	40
	25	110	183	21-31	20	62
	32	120	186	21-31	20	62
	40	130	200	13-23	20	74
	50	145	211	13-23	20	77



Brass Body 2 Way Valve



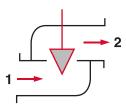
Brass Body 3 Way Valve



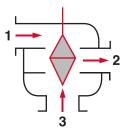
TABLE 3: FLOW RATE, KV FACTOR AND MAXIMUMCLOSE-OFF PRESSURE (KPA) 2-WAY AND3-WAY ELECTRICALLY ACTUATED VALVE

TRIM	DN15/DN20	DN25	DN32	DN40	DN50	
	6.3	10	16	25	40	
Brass	20					
	90 110			10		
MAXIMUM SHUTOFF PRESSURE (KPA)						
FORCE (N)	DN15/DN20	DN25	DN32	DN40	DN50	
1000	-	-	550	400	270	
	Brass FORCE (N)	Brass MAXIMUM S FORCE (N)	6.3 10 Brass 90 MAXIMUM SHUTOFF PRESS FORCE (N) DN15/DN20	6.3 10 16 Brass	And And And 6.3 10 16 25 Brass 20 20 1 90 1 1 1 MAXIMUM SHUTOFF PRESSURE (KPA) FORCE (N) DN15/DN20 DN25 DN32 DN40	

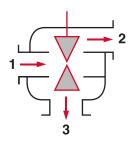
FLOW CHARACTERISTIC



2-Way Valve PTDC



3-Way Valve PTDC



3-Way Valve Diverting

APPLICATION OVERVIEW

The NVCS control valve feature Brass Body are available in 2-Way configurations with Push-Down-To-Close (PDTC - Normally open) with threaded BSP. The valve can be ordered with NENUTEC Valve Actuator NAV... and NTC controller for a complete HVAC solutions.

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.