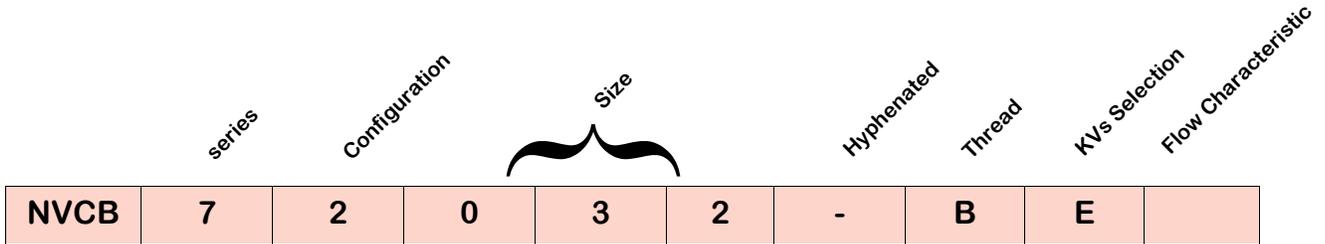




- NENUTEC present the NVCB Characterised Disc Ball valve. These valve are mainly use in the HVAC system to regulate the flow of water and steam in response to the demand of a controller.
- Complete range from DN 15 to DN 50
- 2 Way, 3 Way Mixing / Diverting
- Forged brass body
- Low leakage factor of up to 0.01% of Kvs
- High close-off pressure actuator satisfies demanding requirements of high-rise buildings and high-pressure pumping systems
- PN 40 or 580 PSI system operating pressure
- Actuator can be factory or field installed
- Equal Percentage Flow Characteristic

Specifications

Valve Body Pressure Rating	40 Bar PN40 (580 psig) Meets Requirements of ANSI B16.15, Class 250		
Fluid / Ambient Temperature Limits	NVCB 7000 -5 to 121 °C water at an Ambient Temperature of 40 °C NVCB 8000 -30 to 170 °C water at an Ambient Temperature of 40 °C NVCB 8000 262 Kpa (38 PSI) Saturated Steam at 170 °C		
Shipping & Storage Temperature Limits	-40 to 70 °C (-40 to 158 °F)		
Body Sizes	See Table 1: Valve Code Number Selection Guide		
Service	Chilled, Hot Water, up to 50% Glycol Solutions and Saturated steam		
Seat Leakage	0.01% of KVs		
Pipe Connection	BSP or NPT		
Body Materials	Brass Trim	Body Stem Seat Seal Ball	Forged Brass Chrome Plate Brass PFTE EPDM Double O-Ring Chrome Plate Brass
Flow Characteristics	2 Way	Equal Percentage	
	3 Way	Equal Percentage of Inline Port A (Coil) and Linear for port B Bypass	
Maximum Close off Pressure	See Tables 2		



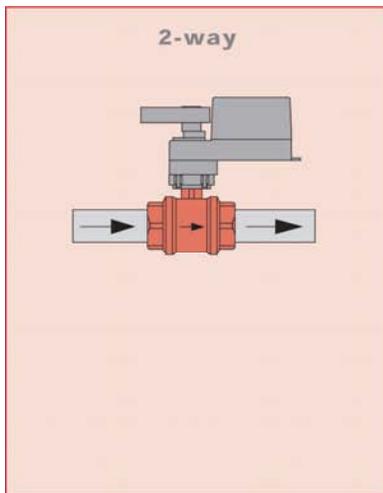
Valve Code Number Designations

Valve Body Type													
NVCB 7 = NVCB 7000 Series Characterised Ball Valve NVCB 8 = NVCB 8000 Series Characterised Ball Valve (Low Temperature and Saturated Steam)													
Configuration													
2 = 2-way 3 = 3-way													
Valve Size													
015 = DN 15 020 = DN 20 025 = DN 25 032 = DN 32 040 = DN 40 050 = DN 50													
Pipe Thread													
B = BSP N = NPT													
KVs													
	DN	15		20		25		32		40		50	
KVs		2 way	3 way										
C		1.6	1.6	NA									
D		2.5	2.5	4.0	2.5	6.3	4.0	10.0	6.3	16.0	10.0	25.0	16.0
E		4.0	4.0	6.3	4.0	10.0	6.3	16.0	10.0	25.0	16.0	40.0	25.0
F (Full port)		10.1	5.0	10.1	5.0	16.0	8.0	25.0	12.5	40.0	20.0	63.0	31.5
Flow Characteristic (For 3 Way Valve Only)													
M = Mixing (2 inlet, 1 outlet) D = Diverting (1 inlet, 2 outlet)													

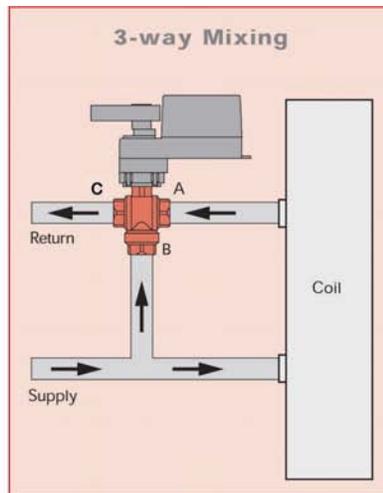
Table 2 : Maximum Close-off Pressure KPA (PSI) with Actuator

Maximum Shutoff Pressure KPA (PSI)							
Model	Torque (Nm)	DN15	DN20	DN25	DN32	DN40	DN50
NAB..... – 05	5	1,000 (145)	1,000 (145)	1,000 (145)	1000 (145)	690 (100)	400 (58)
NAB.... -- 10	10	1400 (203)	1400 (203)	1400 (203)	1400 (203)	1000 (145)	1000 (145)

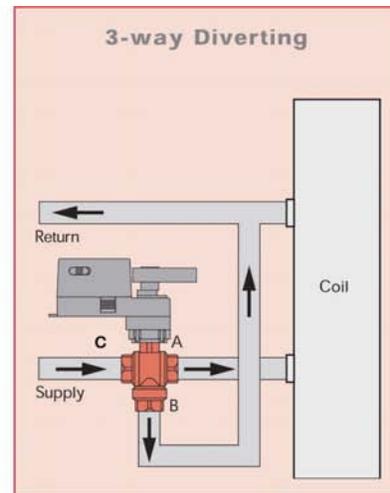
Piping Diagram



Remarks:
 3 Way Valve assemblies are shipped as standard with ball ports labeled as A, B, C accordingly. All 3 Way ball valve are shipped 0° counterclockwise. For application requiring a different flow pattern, please consult your NENUTEC representative



Mixing Application:
 Fluid enters through two inlet (A and B) and exits through one outlet (C)



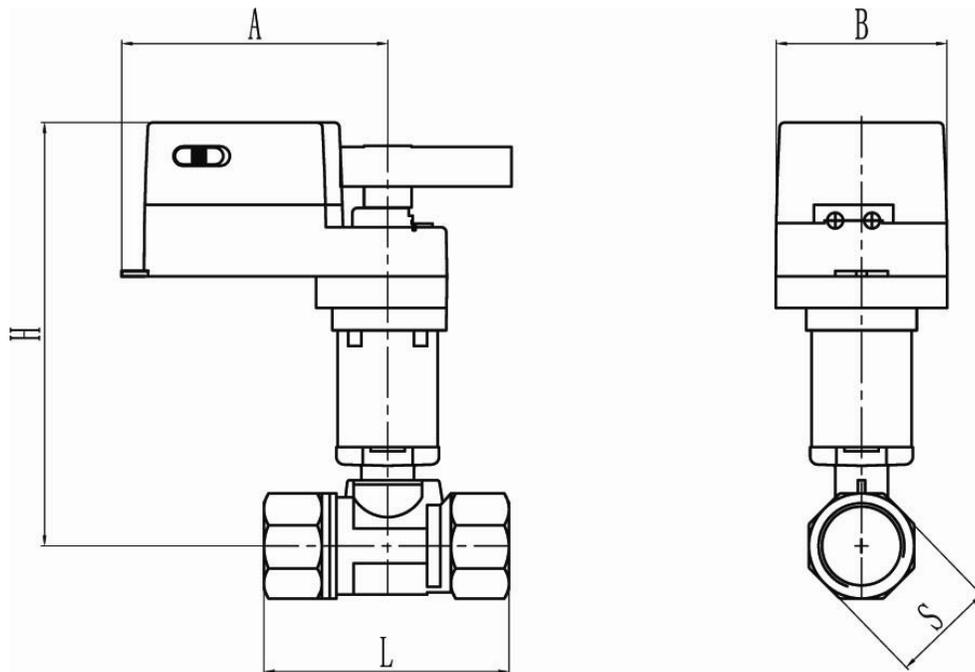
Diverting Application:
 Fluid enters through one inlet (C) and exits through two outlet(A and C)

Application Overview

The NVCB 7000 / 8000 series feature are available in two-way and three way configurations with threaded NPT or BSP. The Valve can be ordered with NENUTEC Ball Valve Actuator NAB... and NTC.. / NPC.... controller for a complete HVAC solution.

Table 3 : Dimensions of Valve Body (mm)

Dimensions	DN (mm)	A	B	H	L	S
2 and 3 Way	15	105	65	158	75	32
	20	105	65	158	75	32
	25	105	65	160	168	39
	32	140	85	190	175	49
	40	140	85	200	175	55
	50	140	85	210	185	57



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