



- NVMZ series
- NENUTEC zone valves are especially designed and produced for applications in the HVAC systems.
- Our wide range of NENUTEC zone valves have been developed to regulate the flow of water and steam demanded by a controller.

Product Features

Zone valve:

- Zone valve size DN 15 (1/2") to DN 25 (1")
- 2-way (open/closed) and 3-way (mixing/diverting)
- The demand of high-rise buildings with high-pressure pumping systems is assured.

Fan Coil Actuator:

- Power Supply AC/DC 24 V and AC 230 V
- Control 2 / 3 Point
- Customer version on request

Model Selection Table 2-way						
DN	KVS	Running Time	Power Supply	Auxiliary Switch	Model / Type	
15 (¹ / ₂ ")	1.6	⊛ 910 sec / ⁄⊚ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 2015-1B	
15 (¹ / ₂ ")	1.6	⊛ 910 sec / -@ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 2015-2B	
20 (³ / ₄ ")	3.5	⊗ 910 sec / ⁄⊚ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 2020-1B	
20 (3/4")	3.5	⊗ 910 sec / ⁄⊚ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 2020-2B	
25 (1")	5.5	⊗ 910 sec / ⁄⊚ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 2025-1B	
25 (1")	5.5	∞ 910 sec / ∞ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 2025-2B	

Model Selection Table 3-way

		and a second			
DN	KVS	Running Time	Power Supply	Auxiliary Switch	Model / Type
15 (¹ / ₂ ")	1.6	@ 910 sec / ∕◎ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 3015-1B
15 (¹ / ₂ ″)	1.6	Ø 910 sec / ∕◎ 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 3015-2B
20 (3/4")	3.5	@ 910 sec / ∕◎ 45 sec	AC/DC 24 V ± 10%	No	NVMZ 3020-1B
20 (³/₄″)	3.5	Ø 910 sec / [™] 45 sec	AC/DC 24 V \pm 10%	No	NVMZ 3020-2B
25 (1″)	5.5	Ø 910 sec / [™] 45 sec	AC/DC 24 V ± 10%	No	NVMZ 3025-1B
25 (1″)	5.5	@ 910 sec / ∕⊚ 45 sec	AC/DC 24 V ± 10%	No	NVMZ 3025-2B
The performance spec	ifications are nominal	and conform to acceptable industry standards. NENUTEC shall n	ot be liable for damages resulting from misapplicat	ion or misuse of its products.	www.nenutec.com

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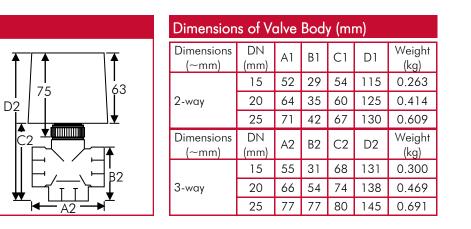
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B1

-75-

A1



Technical Specifications

Dimensions (mm) **I ← 65** –

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С

Zone Valve:					
Service	Hot or cold water for HVAC				
Fluid Temperature limits	Water: +2°C+105°C				
Ambient Operating Temperature	+2°C+60°C				
Valve Body Pressure / Temperature Rating	Water: 232 psig (1.6 mPa) (PN16)				
Maximum Pressure Resistance	Water: 300 psi				
Normal stroke	3 mm				
Flow Characteristic (3-way)	Equal Percentage flow characteristic of A (Coil) and linear flow characteristic of B (Bypass)				
Leakage	0.01% of KVS (maximum flow) / 1% of KVS (maximum flow) for 3-way Bypass Port				
Pipe Connection	BSP (European Standard) / NPT on request				
Thread Connection	Female Thread				
Body Sizes	DN 15(¹ / ₂ ") to DN 50(1")				
Configuration	Normally closed (NC) (standard). Normally open (NO) on request.				
Materials	Body Plug Packing Ring Stem Spring	Forged Brass Synthetic rubber EPT O-ring EPT AISI 303 stainless steel AISI 302 stainless			
Actuator:					
Torque	105 N ± 10 % (24 Lb ± 10 %)				
Stroke Range	3 mm5 mm				
Power Supply	AC/DC 24V or AC 230V				
Frequency	50 - 60 Hz				
Control Signal	2 Point				
Motor	Synchronous stall motor				
Power Consumption					
- Operating	7.0 W				
- End stop	5.0 W				
Fore Wire Sizing	7.0 VA				
Protection Class					
Weight	0.496 kg				
Life Cycle	100′000				
Sound level	35 dB (A)				
IP Protection	IP 40				
Operating Temperature	+2°C+60°C				
Non - operating Temperature	-20°C+65°C				
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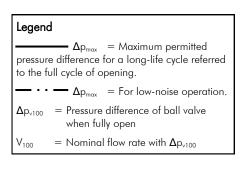
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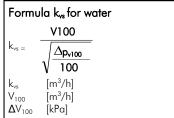
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Selection Formula

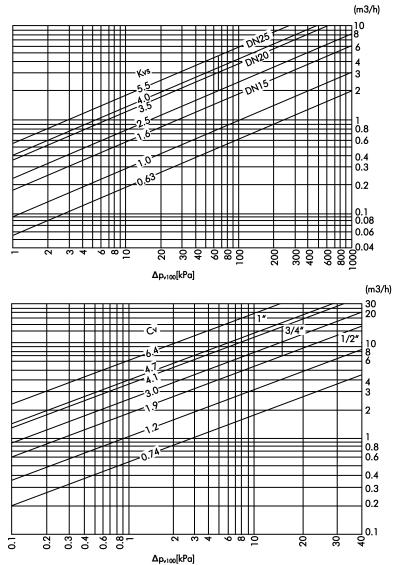


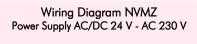


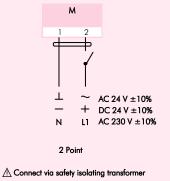


Definition of Δp_s

Closing pressure at which the actuator can still seal the valve tightly allowing for the appropriate leakage rate.



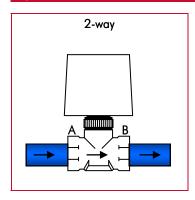




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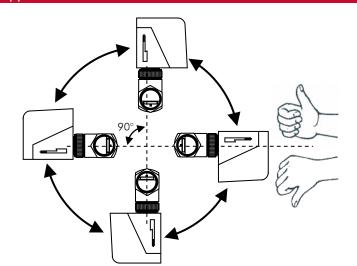


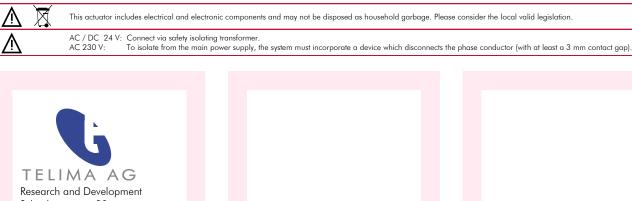
Pipe Connections



Mixing Applications: Fluid enters through two inlets (A and B) and exits through one outlet (C).

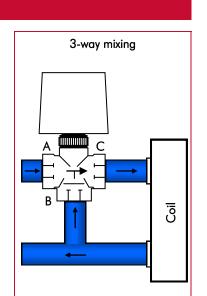
Application

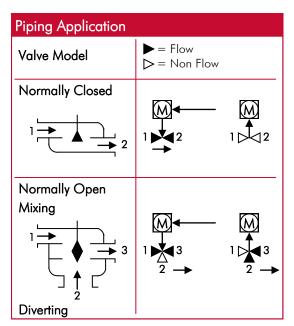




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