

调节型电动二通阀 / 三通阀

VN3 系列安装说明书

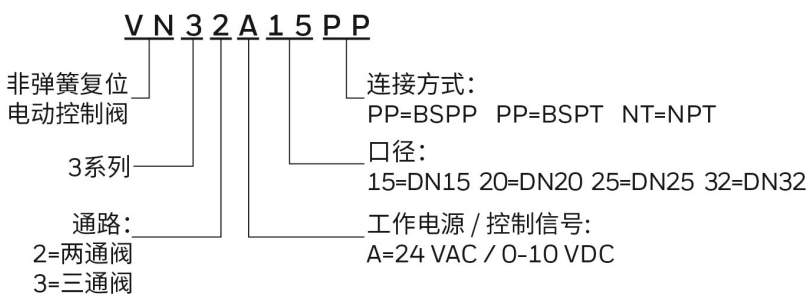
基本参数

执行器部分		阀体部分	
工作电源	24 VAC ± 10%, 50 / 60 Hz	适用介质	冷、热水或 50% 乙二醇溶液
控制方式	调节型, 非弹簧复位功能	介质温度	0 °C – 94 °C
控制信号	0 V – 10 V DC (输入阻抗 200 KΩ)	工作环境温度	0 °C – 65 °C
反馈信号	0 V – 10 V DC (最大 1 mA)	工作相对湿度	10% – 90%RH
工作环境温度	0 °C – 65 °C	运输存储温/湿度	-40 °C – 65 °C , 10% – 90%RH 无冷凝水
工作相对湿度	10% – 90%RH 无冷凝水	公称压力	PN20
功率	≤ 5 W	材质	阀体和球体 — 锻造黄铜 (HPb59-1)
动作时间	开启: ≤ 40 s; 关闭: ≤ 40 s		阀杆 — 不锈钢 (0Cr18Ni9)
防护等级	IP42		阀座 — 聚四氟乙烯 (PTFE) O 形密封圈 — 三元乙丙橡胶 (EPDM)

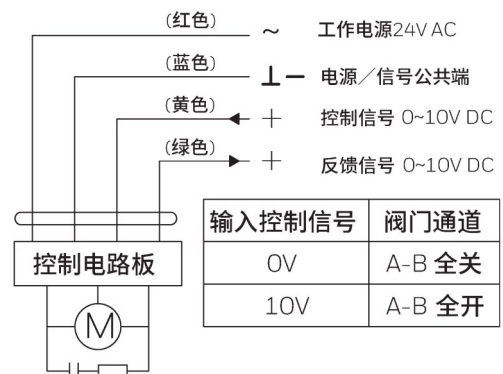
型号规格

型号	尺寸	规格	Kv值	关闭压力 PSI (MPa)
VN32A15XX	1/2" (15 mm)	二通	2.0 ± 10%	87 (0.6)
VN32A20XX	3/4" (20 mm)		3.2 ± 10%	
VN32A25XX	1" (25 mm)		5.7 ± 10%	
VN32A32XX	1-1/4" (32 mm)		10.0 ± 10%	
VN33A15XX	1/2" (15 mm)	三通	3.2 ± 10%	
VN33A20XX	3/4" (20 mm)		4.6 ± 10%	
VN33A25XX	1" (25 mm)		6.7 ± 10%	
VN33A32XX	1-1/4" (32 mm)		14.0 ± 10%	

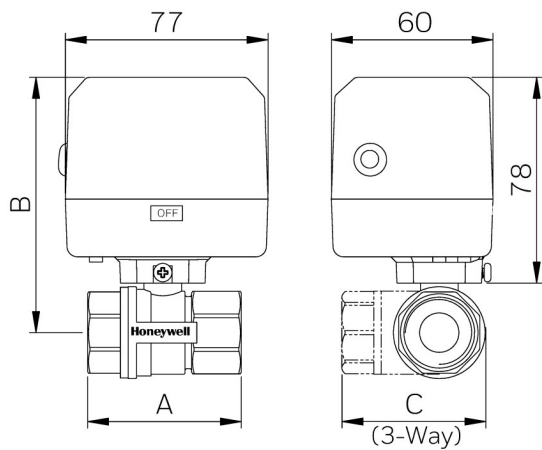
命名规则



接线图

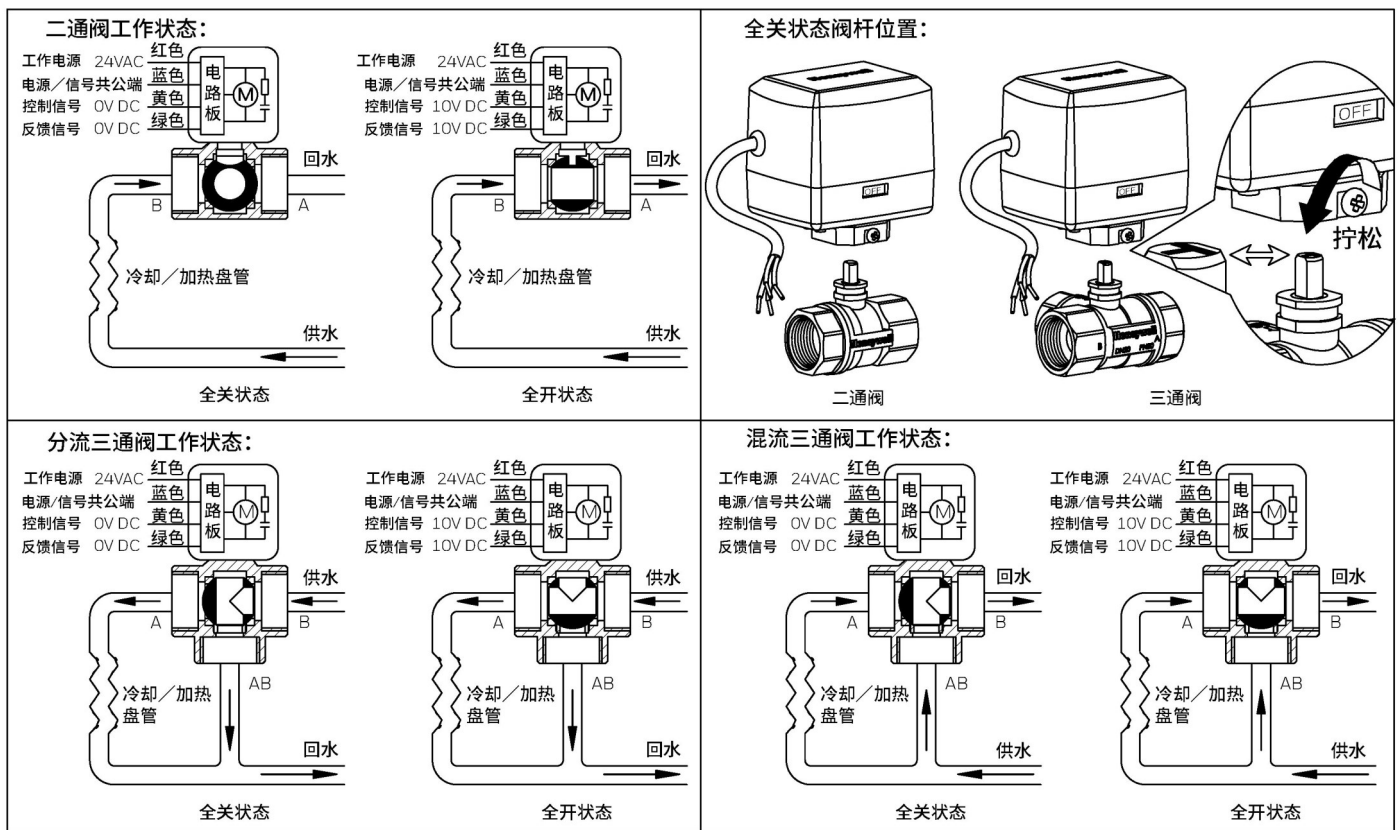


外观尺寸

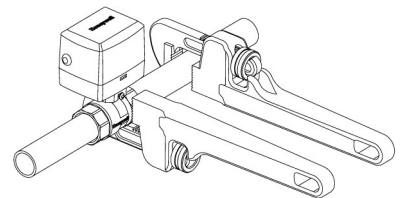


型号	尺寸 (mm)		
	A	B	C
VN32A15XX	51.50	100.00	—
VN32A20XX	60.00	100.00	—
VN32A25XX	66.00	105.00	—
VN32A32XX	77.50	105.00	—
VN33A15XX	56.00	100.00	42.00
VN33A20XX	67.00	100.00	53.00
VN33A25XX	83.00	105.00	62.00
VN33A32XX	87.00	105.00	72.00

安装注意事项



- 产品可以安装在竖直或水平管道上。
- 在竖直管道上，产品可以任意位置安装。
- 在水平管道上，执行器必须与管道中心线齐平或高于中心线。
- 确保在执行器上方留下足够的空间，以便拆卸维修。
- 为防止阀体破裂或接套松动，安装或拆卸时需使用板钳或板手在球体的同一侧操作，如右图所示。
- VN3系列电动阀是为全封闭式系统设计。不建议在开式系统使用。在开式系统里，过多的氧气及氯气溶解会侵蚀阀体材料，形成过早的损坏。



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版本: A

Honeywell

Modulating 2-way/3-way FCU Electric Control Valves

VN3 Series Installation Instructions

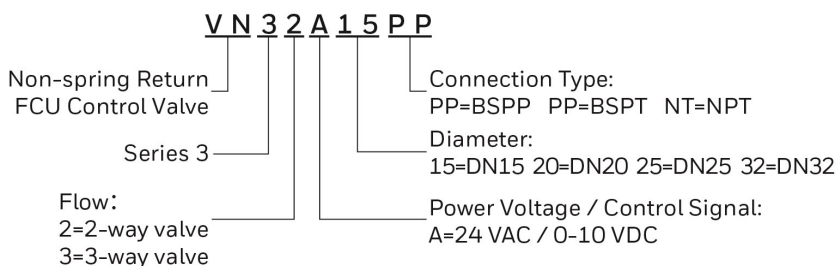
Specifications

Actuator		Valve Body	
Operation Voltage	24 VAC ± 10% , 50 / 60 Hz	Applicable Medium	Cold, hot water, or up to 50% glycol
Control Mode	Modulating, Non-spring return	Medium Temperature	0 °C – 94 °C
Control Signal	0 V – 10 V DC (input impedance 200 KΩ)	Operating Temperature	0 °C – 65 °C
Feedback Signal	0 V – 10 V DC (1mA Max.)	Operating Relative Humidity	10% – 90%RH
Operating Temperature	0 °C – 65 °C	Storage Conditions	-40 °C – 65 °C, 10% – 90%RH, non-condensing
Operating Relative Humidity	10% – 90%RH, non-condensing	Nominal Pressure	PN20
Power	≤ 5 W	Materials	Valve body or ball - Forged brass (HPb59-1)
Operating Time	Open: ≤ 40 s; Close: ≤ 40 s		Valve stem - Stainless steel (0Cr18Ni9)
Protection Rating	IP42		Ball Sealing - Poly tetrae fluoro ethylene (PTFE)
			O-ring seal - EPDM

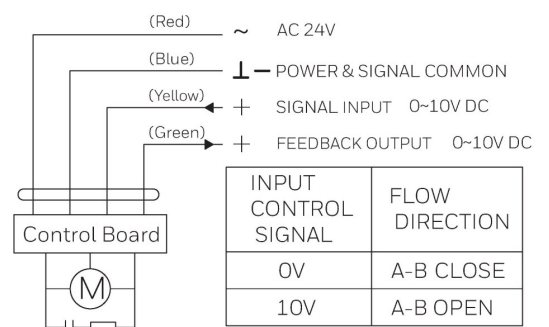
Ordering Information and Parameters

Models	Dimensions	Flow	Kv	Close-off Differential Pressure PSI (MPa)
VN32A15XX	1/2" (15 mm)	2-way	2.0 ± 10%	87 (0.6)
VN32A20XX	3/4" (20 mm)		3.2 ± 10%	
VN32A25XX	1" (25 mm)		5.7 ± 10%	
VN32A32XX	1-1/4" (32 mm)		10.0 ± 10%	
VN33A15XX	1/2" (15 mm)	3-way	3.2 ± 10%	
VN33A20XX	3/4" (20 mm)		4.6 ± 10%	
VN33A25XX	1" (25 mm)		6.7 ± 10%	
VN33A32XX	1-1/4" (32 mm)		14.0 ± 10%	

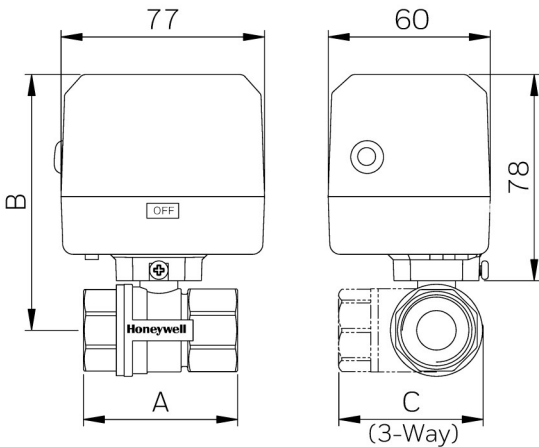
Product Naming



Wiring Diagram

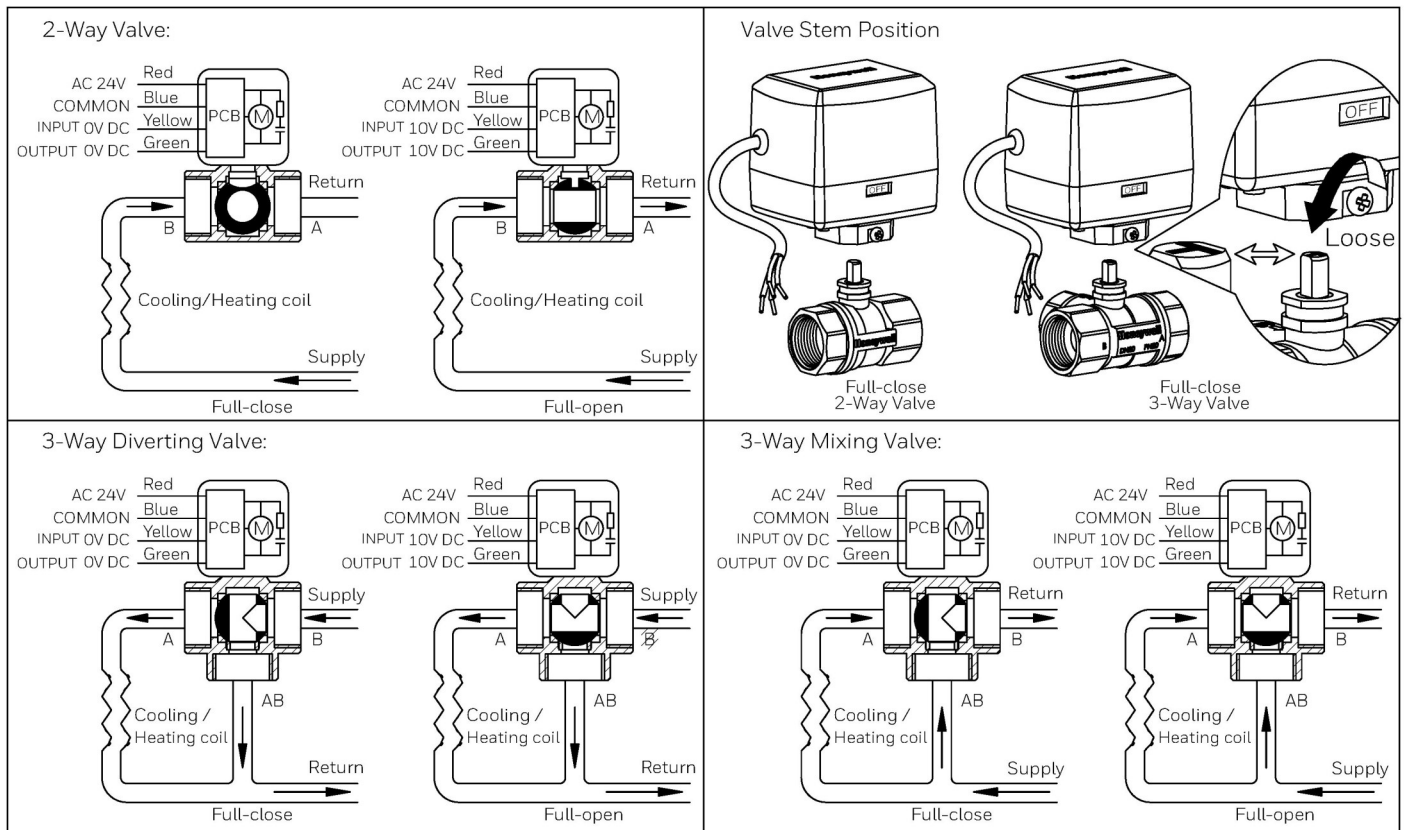


Dimensions (mm)

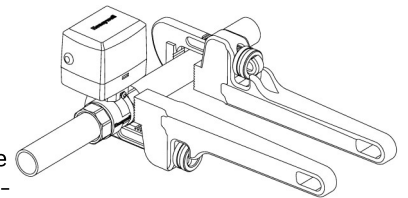


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VN33A25XX	83.00	105.00	62.00
VN33A32XX	87.00	105.00	72.00

Installation Guide



- The FCU valve can be installed on vertical or horizontal pipes.
- When mounting the actuator on the horizontal pipe, ensure to keep the actuator aligned to or above the center axis of the pipe.
- Ensure to leave enough room above the actuator for disassembly and maintenance.
- To avoid breaking the valve or unscrewing the end pieces, you need to operate the spanners on the same side of the valve when installing and removing the actuator (as shown in the right figure).
- VN3 series are designed for fully closed systems, which is not suggested to be used in an open system. In the open system, excessive dissolved oxygen and chlorine will erode the valve material and cause permanent damage.



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Rev. A