

A1003-... Electric Ball Valve Series



Electric Ball Valve
A1003-...series
PN16

Performance & Features:

The electric control ball valve of A1003 series is an electric modulating ball valves, composed of an electric actuator with a torque rating of 10-400 Nm and a V-type ball valve body. It can accurately control the medium flow in the system to achieve temperature control, pressure regulation and energy conservation.

Analog feature: After calibration, the valve will adjust its opening angle according to the input voltage signal.

- ◆ Nominal diameter: DN15...DN150; IP54 or IP67;
- ◆ Control mode: Proportional control
- ◆ Equal percentage flow characteristic,
- ◆ Optional functions: Fail Open, Fail Close or Fail Hold after signal loss
- ◆ Stainless steel V-type ball, providing superior regulation performance.
- ◆ Actuator easy to install and remove, as well as convenient for wiring and maintenance.

Applications:

This series of valves can be used in central air conditioning, heating and chilled water systems, building automation systems, steam humidification systems, etc.

Model Description

For example: A1003TM-20-16T/ Actuator Model and Control Type

1. "A10" Electric Thermostatic Valve Series;
2. "0" 2-way valve; "3" 3-way valve;
3. "3" V-Type Modulating Ball Valve Structure;
4. "T" : Threaded connection; "F" : Flanged connection; "C": Clamp (Quick-installation);
5. "M" Modulation Type; "S" On-Off Type;
6. "-20" Nominal Diameter is DN20;
7. "16" Nominal Pressure PN16;
8. "T" : Brass, "B" : Bronze, "P" : Stainless steel, "C" : Cast steel, "Q" : Ductile Iron;

Technical Description:

PN (Nominal Pressure)	PN16;
Flanged connection	EN1092;
Working Temperature	-15°C~130°C;
Body	QT450-10;
Seal	EPDM/ PTFE;
Core, stem	Stainless steel;



Flow Coefficient and Shut-off Pressure Differential

口径	流量系数 Kvs/(m ³ /h)	关断压差 (kPa)	执行器扭矩 (Nm)
DN40	30	800	25 (HVN25...)
DN50	60	800	25 (HVN25...)
DN65	68	800	25 (HVN25...)
DN80	100	800	25 (HVN25...)
DN100	160	800	60 (HVN60...)
DN125	250	800	60 (HVN60...)
DN150	360	800	60 (HVN60...)

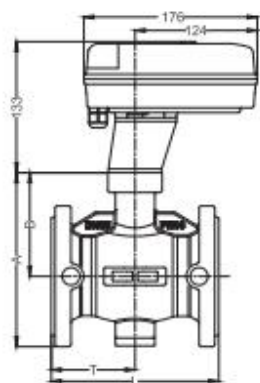
Actuator Parameters

Rotation Direction Adjustable
 IP Rating IP55
 Operating Conditions Operating Temperature -20~60°C
 Storage Temperature -30~80°C

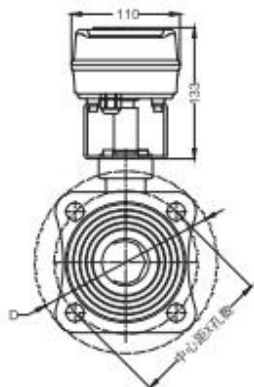


型号	扭矩 (Nm)	控制信号	工作电源	控制方式	运行时间	功耗	内置 辅助开关
HVN25. AKB	25	0n-0f	24Vac	浮点/开关	60s	8VA	
HVN25. AKB. F	25	0n-0f	24Vac	浮点/开关	60s	8VA	2组
HVN25. CKB	25	0n-0ff	220Vac	开关	60s	8VA	
HVN25. CKB. F	25	0n-0f	220Vac	开关	60s	8VA	2组
HVN25. AM	25	0(2)~10V	24Vac/dc	调节/浮点/开关	70s~95s	8VA	
HVN60. AKB	60	0n-0f	24Vac	浮点/开关	150s	18VA	
HVN60. AKB. F	60	0n-0f	24Vac	浮点/开关	150s	18VA	2组
HVN60. CKB	60	0n-0f	220Vac	开关	150s	18VA	
HVN60. CKB. F	60	0n-0ff	220Vac	开关	150s	18VA	2组
HVN60. AM	60	0(2)~10V	24Vac/dc	调节/浮点/开关	160s	18VA	

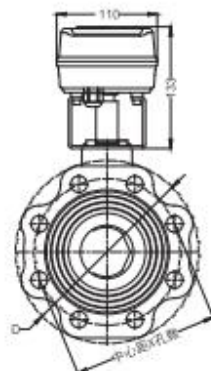
Valve Body Dimension Chart



(version with VHN25 actuator)



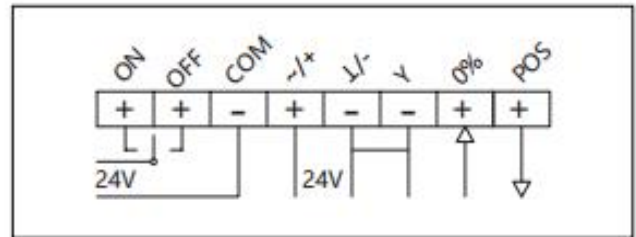
(version with VHN60 actuator)



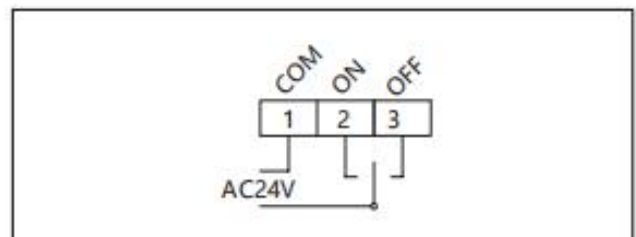
DN		L	T	D	A	B	螺丝中心孔	螺丝孔X孔数
mm	In							
40	1-1/2"	150	75	150	152	93	110	018×4
50	2"	160	80	165	162	98	125	018×4
65	2-1/2"	170	85	185	176	105	145	018×4
80	3"	180	90	200	207	113	160	018×8
100	4"	190	95	220	227	124	180	018×8
125	5"	200	100	250	249	132	210	018×8
150	6"	210	105	285	281	148	240	022X8

Wiring Diagram

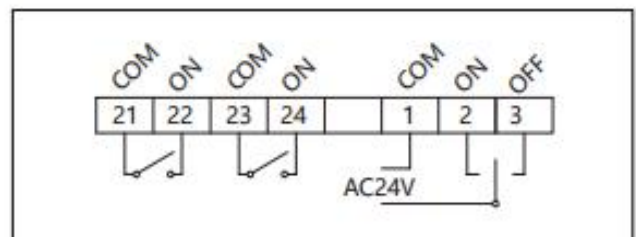
调节型: HVN10.AM/HVN25.AM/HVN60.AM



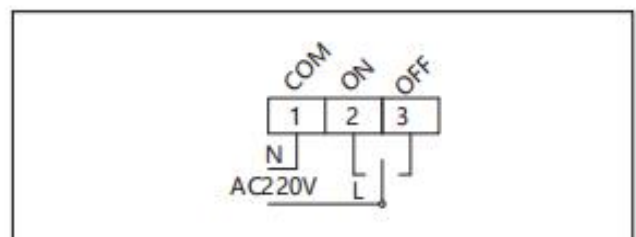
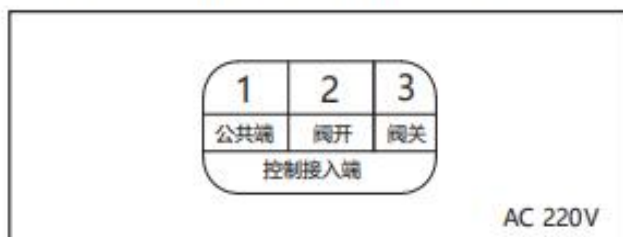
浮点/开关型: HVN10.AKB/HVN25.AKB/HVN60.AKB



浮点/开关型(带辅助开关): HVN10.AKB.F/HVN25.AKB.F/HVN60.AKB.F



开关型: HVN10.CKB/HVN25.CKB/HVN60.CKB



开关型(带辅助开关): HVN10.CKB.F/HVN25.CKB.F/HVN60.CKB.F

