

2-Way Motorized Ball Valve - Modulating - Flanged

Fig. 4220+TCN02/05

Standard

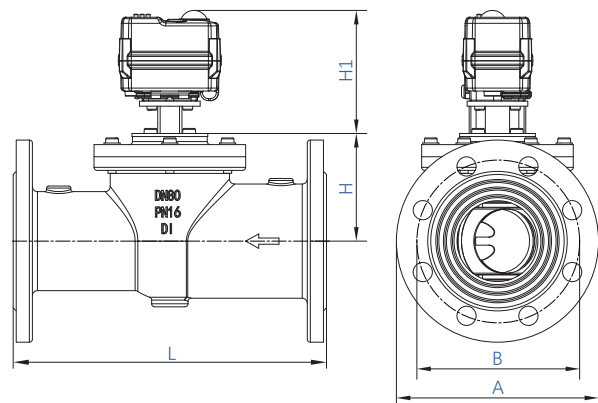
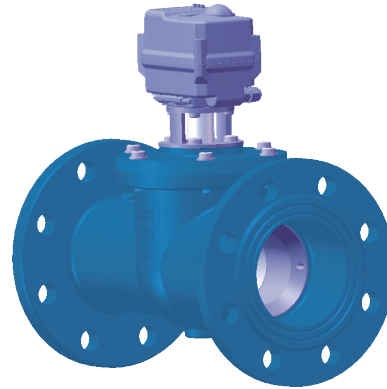
Connection meet: EN1092-2
Size range: 40mm(1-1/2")~150mm(6")
Testing Standard: EN12266-1

Technical data

Nominal Voltage: AC/DC24V
Nominal Torque: 20Nm/50Nm
Power consumption: 9.6W(TCN02/20Nm)
40W(TCN05/50Nm)
Operation time: 15S/12S
Control Signal: 4-20mA/0-20mA/0-10V/2-10V
Feedback Signal: 4-20mA(TCN02/20Nm)
4-20mA/0-20mA/0-10V/2-10V(TCN05/50Nm)
Enclosure protection: IP67

Nominal pressure: 16bar /25bar
Adjustable ratio: > 100
Leakage rate: ≤0.01%
Size range: DN40~150
Temperature range: -5°C~120°C
Media: Water, Glycol

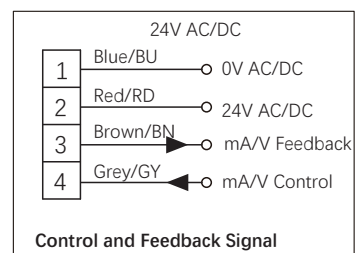
Schema



Specification

Part	Material	Standard
Body	Ductile Iron	EN-GJS-400-LT
Ball	Stainless Steel	SS304
Shaft	Stainless Steel	SS304
Seal	PTFE	-
Bracket	Stainless Steel	SS304
Actuator	ABS/Die-casting Al	Component

Wiring



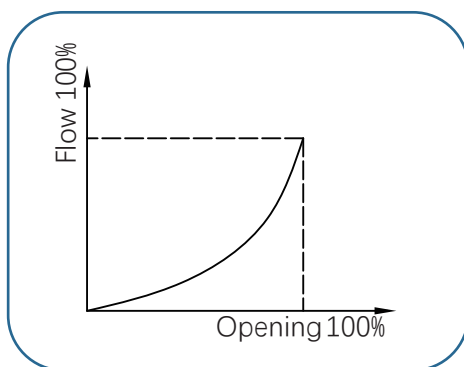
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Dimensions

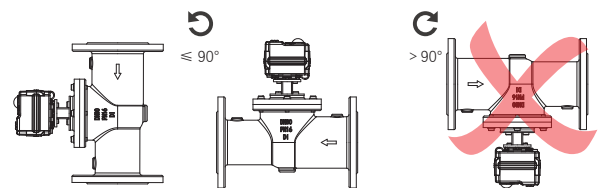
DN	mm	40	50	65	80	100	125	150
	inch	1-1/2	2	2-1/2	3	4	5	6
L		200	230	290	310	350	254	267
H		80	85	95	105	115	135	150
H1		125	125	125	125	155	155	155
A		150	165	185	200	220	250	285
B		110	125	145	160	180	210	240
Torque(N.m)		10	10	13	16	24	31	40
Kvs		40.2	47.3	81.8	139.1	194.5	233.2	283.8
Actuator		TCN02	TCN02	TCN02	TCN02	TCN05	TCN05	TCN05

Curve



Opening-Flow Curve

Notice



1. Actuator must be horizontal;
2. Do not use force on the drive during installation;
3. The thread connected with the valve must be standard thread
4. The valve and pipeline should be kept clean before installation;
5. The valve and pipe recommended horizontal installation, can be installed vertically, but not inverted;
6. Ensure that the pipes and valves are insulated and do not wrap the Actuator in the thermal insulation layer.

Note: If the product is damaged due to improper installation or harsh working medium, We only provide paid services.

WARCO reserves the right to change dimensions without notice