

## Motorized Ball Valve

### DN12 ~ DN50, 2 way / 3 way Motorized Ball Valve

#### Application

Motorized ball valve is using bi-directional motor, and mainly used in central air-conditioning system, heating system, water treatment, and production industry to control the flow of chilled/hot medium.



DN12~DN25



DN32~DN50

#### Actuator Technical Data

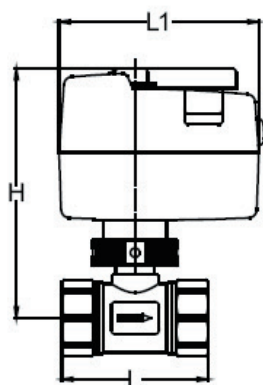
<b>Power Supply</b>	24VAC	220VAC	24VAC
<b>Frequency</b>	50/60Hz		
<b>Power</b>	3VA on load	5VA on load	4VA on load
<b>Control Signal</b>	3-point floating / electric on/off		DC0(2) ~ 10V DC4(0) ~ 20mA
<b>Default Setting</b>	-----		Input 0 ~ 10V DC Feedback 0 ~ 10V DC Running Status DA
<b>Torque</b>	DN12 ~ DN25		>= 4Nm
	DN32 ~ DN50		>= 6Nm
<b>Stroke Time(0~90°)</b>	DN12 ~ DN25	about 45s (50Hz/90°) / 90s for optional	
	DN32 ~ DN50	about 60s (50Hz/90°) / 120s for optional	
<b>Rotation Angle</b>	90° <= Mechanical Limitation < 95°		
<b>Cable</b>	0.5 ~ 1mm <sup>2</sup>		
<b>Material</b>	Cover	Fire-retardent ABS engineering plastic	
	Chassis	Fire-retardent Reinforced nylon PA6 - 110	
	Gear	POM, Fire-retardent Reinforced nylon PA6-230, Brass HPb59-1	
<b>Temperature</b>	Operating: -5 ~ +50°C; Storage: -30 ~ +70°C		
<b>Protection Class</b>	IP54		

## Valve Technical Data

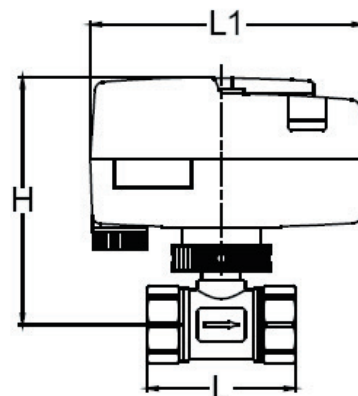
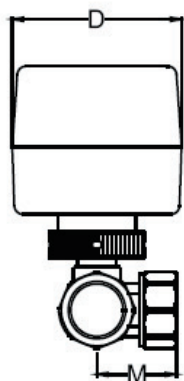
<b>Working Media</b>	Chilled / hot water or <= 50% glycot
<b>Media Temperature</b>	2 ~ 94°C
<b>Rated Body Pressure</b>	PN25
<b>Flow Characteristic</b>	Equal Percentage
<b>Leakage</b>	A.B port 0~0.01% Kv AB port 0.5% Kv
<b>Connection Type</b>	Thread
<b>Closing-off Pressure</b>	600kPa
<b>Rotation Angle</b>	90°
<b>Installation Level</b>	Horizontal / Vertical

Material	
<b>Valve Body</b>	Forged Brass
<b>Valve Ball</b>	Stainless Steel / Casting Brass (chrome-plate)
<b>Valve Seat</b>	PTFE
<b>Valve Shaft</b>	Stainless Steel / Forged Brass
<b>Seal</b>	NBR

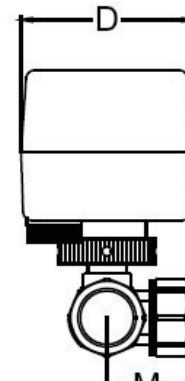
## Dimensions



DN12~DN25



DN32~DN50



Size	Rated Body Pressure	Kv	Dimension(mm)					
			L		H	M	L1	D
			2 way	3 way				
DN12	PN25	4.0	68	68	115	33	92	77
DN18		6.3	68	68	115	34		
DN25		10	82	84	120	43		
DN32		16	98	104	131	50	123	78
DN40		25	105	111	131	50		
DN50		40	122	143	135	61		

**DN65 ~ DN150, 2 way Motorized Ball Valve**

**Application**

Motorized ball valve is using bi-directional motor, and mainly used in central air-conditioning system, heating system, water treatment, and production industry to control the flow of chilled/hot medium.



DN65~DN100



DN125~DN150

**Actuator Technical Data**

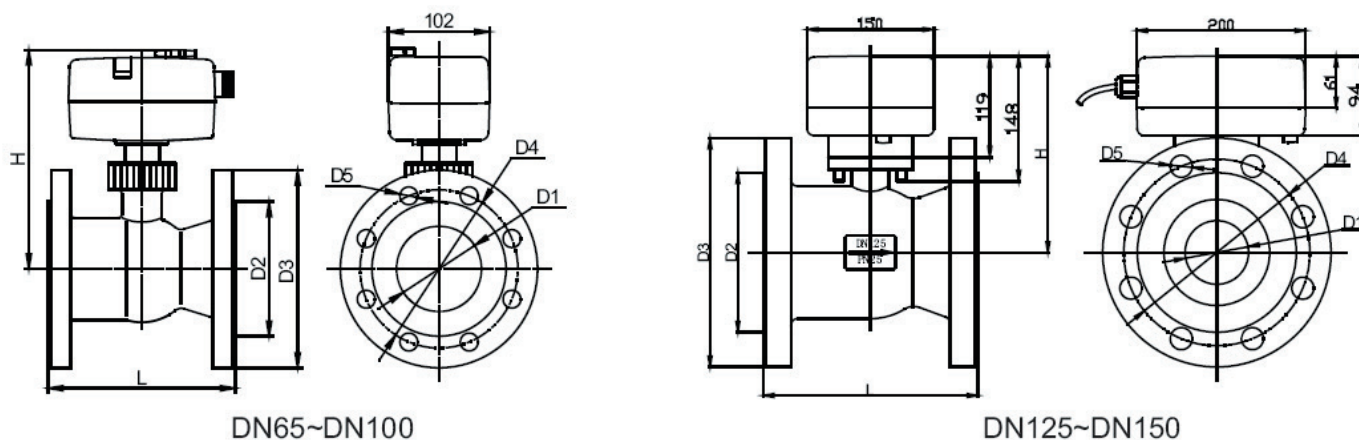
<b>Power Supply (50/60Hz)</b>		24VAC	220VAC	24VAC
<b>Power</b>	DN65 ~ DN100	4.5VA on load	8.5VA on load	5.5VA on load
	DN125 ~ DN150	10VA on load		11VA on load
<b>Control Signal</b>		3-point floating / electric on/off		DC0(2) ~ 10V DC4(0) ~ 20mA
<b>Default Setting</b>		-----		Input 0 ~ 10V DC Feedback 0 ~ 10V DC Running Status DA
<b>Torque</b>	DN65 ~ DN100		≥ 25 Nm	
	DN125 ~ DN150		≥ 65 Nm	
<b>Stroke Time(0~90°)</b>		120s (50Hz)		
<b>Rotation Angle</b>		90° ≤ Mechanical Limitation < 95°		
<b>Cable</b>		0.5 ~ 1mm <sup>2</sup>		
<b>Material</b>	Cover	Fire-retardent ABS engineering plastic		
	Chassis	Casting Aluminum Alloy		
	Gear	DN65 ~ DN100	POM, Steel	
DN125 ~ DN150		Brass, HPb59-1, Steel (40Cr, 45)		
<b>Temperature</b>		Operating: -5 ~ +50°C; Storage: -30 ~ +70°C		
<b>Protection Class</b>		IP54		

## Valve Technical Data

<b>Working Media</b>	Chilled / hot water or <= 50% glycol
<b>Media Temperature</b>	2 ~ 94°C
<b>Rated Body Pressure</b>	PN16 / PN25
<b>Flow Characteristic</b>	Equal Percentage
<b>Leakage</b>	Less than 0~0.01% Kv
<b>Connection Type</b>	Flanged
<b>Closing-off Pressure</b>	600kPa
<b>Rotation Angle</b>	90°
<b>Installation Level</b>	Horizontal / Vertical

Material	
<b>Valve Body</b>	Casting Iron
<b>Valve Ball</b>	Stainless Steel
<b>Valve Seat</b>	PTFE
<b>Valve Shaft</b>	Stainless Steel
<b>Seal</b>	NBR

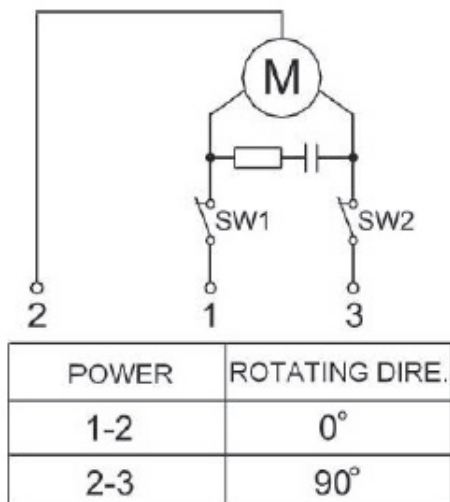
## Dimensions



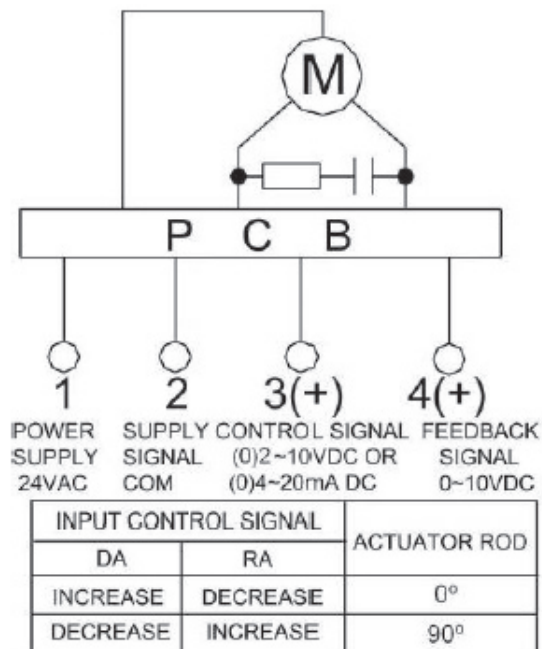
Size	Rated Body Pressure	Kv	Dimension (mm)						
			L	H	D1	D2	D3	D4	D5
DN65	PN16 (PN25)	64	190 (190)	216 (216)	82 (82)	120 (120)	185 (185)	145 (145)	18 (18)
DN80		102	190 (190)	216 (216)	82 (82)	136 (136)	200 (200)	160 (160)	18 (18)
DN100		163	230 (230)	226 (226)	102 (102)	156 (162)	220 (236)	180 (190)	18 (23)
DN125		260	254 (254)	232 (232)	125 (125)	188 (188)	250 (270)	210 (220)	18 (26)
DN150		416	267 (267)	250 (250)	154 (154)	210 (215)	285 (300)	240 (250)	22 (26)

Wiring Diagram

WIRING



PCB SETTING



Piping Diagram

