



Three piece mini butterfly valve

**Z** series



- Can be used at intermediate openings. Also suitable for proportional control.
- Easy to maintain. Ideal for incorporation into equipment.
- Low cost and long life.
- There is a specification in which no metal is exposed at the parts that come in contact with the liquid.

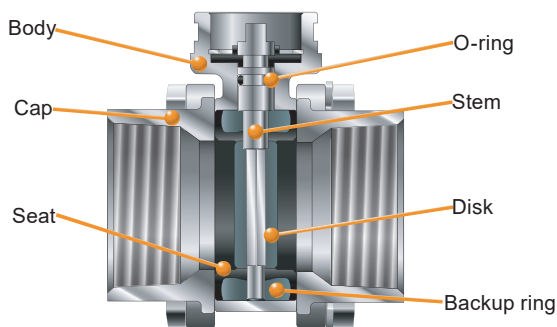
NIPPON VALVE CONTROLS, INC.

MINI BUTTERFLY VALVE

# Z-SERIES FEATURE

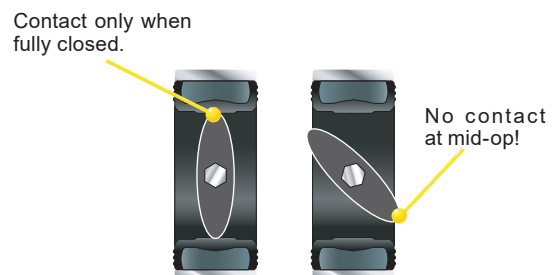
## Compatible with various connection types.

The valve body and pipe connection cap can be divided into three pieces.  
Threaded end type and various connection types are available.  
Please contact us for special specifications.



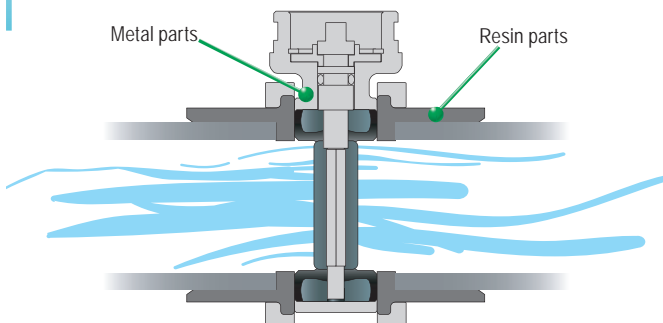
## Ideal for use at intermediate openings.

Ideal for proportional control in intermediate degrees of opening.  
Contact between disc and seat only when fully closed.  
Proportional control with long-lasting closing performance.



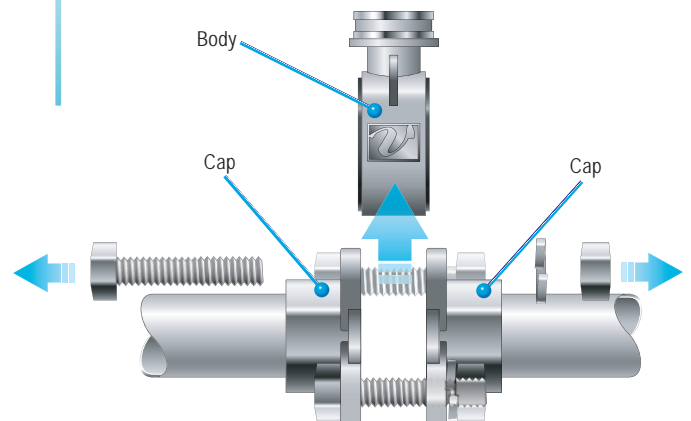
## Can be used for a variety of fluids.

Disc is made of PPS resin and has a scale adhesion resistance comparable to PTFE.  
Excellent corrosion resistance and long life.  
Standard lineup of seat materials: EPDM, NBR and FKM.



## Plumbing is a breeze! Three-piece construction for easy maintenance.

For maintenance, only the main body part can be replaced while leaving the cap on the pipe.  
Just loosen the four bolts and the main body can be removed.

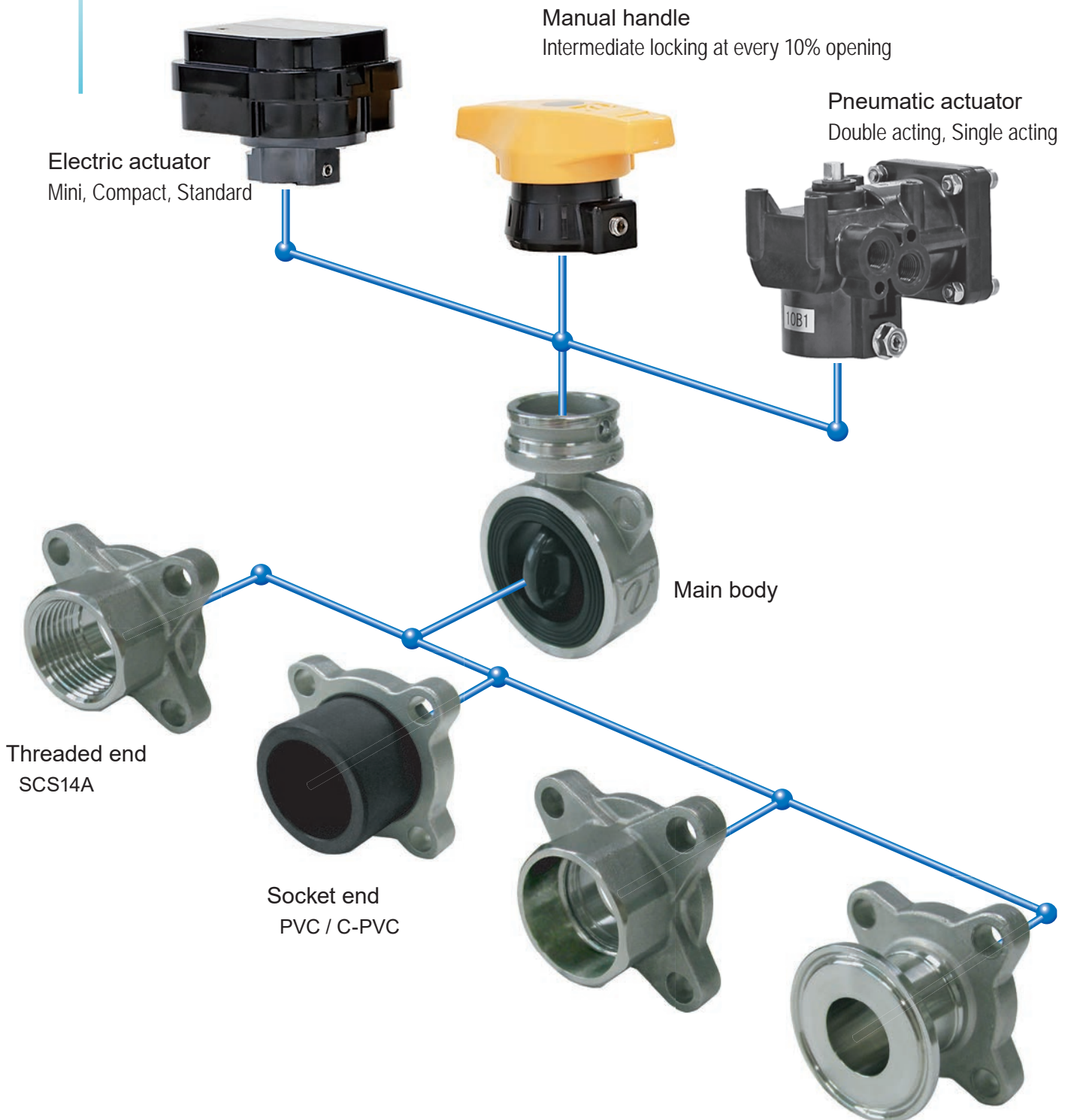


# Z-SERIES VARIATION



Large selection of actuators.

As a comprehensive manufacturer of automatic valves, we have a wide range of both electrically and pneumatically operated actuators of our own making. Unique manual handles with a medium opening retention function are also available.



For other connection methods, please contact us.

# Z-SERIES SPECIFICATION

## Specification

Type	Rubber seat butterfly valve					
① Body material	④ SCS13A					
② Connection	⑤ Threaded end Rc (JIS B 0203)			⑦ Socket end		
③ Cap material	⑩ SCS14A		⑧ PVC		⑨ C-PVC	
⑥ Seat material	③ EPDM / ① NBR / ② FKM					
Disk material	PPS					
Stem seal material	O-ring of the same material as the seat.					
	15A	20A	25A	32A	40A	50A
Cv value	7	19	28	28	86	86
Face to face L (mm)	Threaded end	59	66	78	87	109
	Socket end	65	75	91	96	138

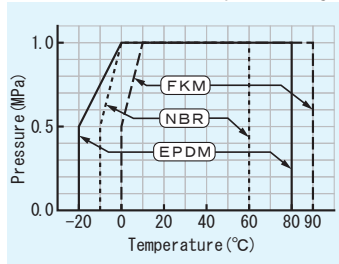
## Fluid and seat material

EPDM	Water, Seawater, etc.
NBR	Oils, Gas, etc.
FKM	Chemicals, etc.

EPDM cannot be used for oils and fats.

When using in seawater, select the combination of the cap made of PVC and seat made of EPDM.

## Seat material Pressure & Temperature rating



## Product code

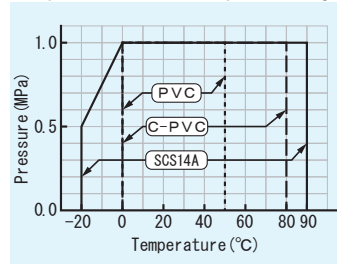
Motorized / Pneumatic : **CMX Z-105 TUE -025**

① Actuator model... ② Valve model... ③ Voltage (Pneumatic = ④) ... ⑤ Sizing code... ⑥ Seat material... ⑦ Cap material... ⑧ Body material

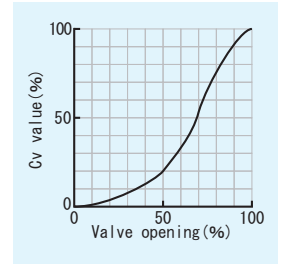
Manual : **MAC Z- Y - 5 TUE -025**

① Series name... ② Valve model... ③ Operation... ④ Connection... ⑤ Seat material... ⑥ Cap material... ⑦ Body material

## Cap material Pressure & Temperature rating



## Flow characteristic



Range ability 30 : 1

## Motorized

### ① Actuator model

② Size	③ String code	Mini						Compact				Standard												
		ON-OFF			Proportional			ON-OFF			Proportional	AEX PEX												
		CA1	PM1	CD2	CM1 CM2	DC Power	AC Power	DM2 DM0	AM1 AM2	AH1	PAX													
-015	0	015	030	030	030	015	030	030	030	030	050	120	100	106	97	97	97	97	129	156	129	156	156	192
	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-020	0	015	030	030	030	015	030	030	030	030	050	120	103	109	100	100	100	100	132	159	132	159	159	195
	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-025	0	—	030	030	030	—	030	030	030	030	050	120	—	—	—	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	070	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-032	0	—	030	030	—	030	030	030	030	030	050	120	—	—	—	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	070	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-040	0	—	070	070	070	070	070	070	070	070	120	120	—	—	—	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-050	0	—	070	070	070	070	070	070	070	070	120	120	—	—	—	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### Height H (mm)

CA1	PM1	CD2	CM1 CM2	CMX	DM2 DM0	AM1 AM2	AH1	PAX	AEX PEX
100	106	97	97	97	97	129	156	129	156
—	—	—	—	—	—	—	—	—	—
103	109	100	100	100	100	132	159	132	159
—	—	—	—	—	—	—	—	—	—
113	104	104	—	104	137	164	137	164	164
—	—	—	—	—	—	—	—	—	—
113	104	104	—	104	137	164	137	164	164
—	—	—	—	—	—	—	—	—	—
160	137	137	137	176	176	149	176	191	212
—	—	—	—	—	—	—	—	—	—
160	137	137	137	176	176	149	176	191	212
—	—	—	—	—	—	—	—	—	—

### ④ Voltage

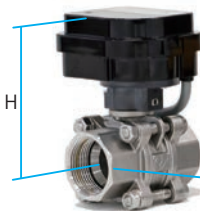
Voltage	CD2	CA1 PM1 CM□	CMX	DM2 DM0	AM1 AH1 PAX	AEX	PEX
12V DC	4	○					
24V DC	0	○	○	○			○
100V DC	1	○	○		○	○	
200V DC	2	○	○		○	○	
100 to 240V AC	6						○

○ Standard ○ Corresponding some models.

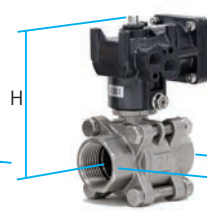
## Pneumatic

### ① Actuator model

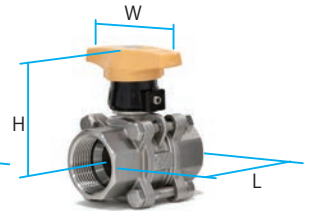
② Size	③ String code	PPS body		Aluminum body		Height H (mm)		
		Double	Single	Double	Single	PND	PSO PSC	TAD TAO TAC
		PND	PSO PSC	TAD	TAO TAC			
-015	0	03S	03S	040	040	95	95	140
-020	0	03S	03S	040	040	98	98	143
-025	0	03S	03D	040	040	102	111	147
-032	0	03S	03D	040	040	102	111	147
-040	0	03D	04D	040	040	123	140	160
-050	0	03D	04D	040	040	123	140	160



Motorized model  
The photo is CM□-030



Pneumatic model  
The photo is PND-03S



Manual model

## Manual

### ① Series name

② Size	③ Operation	MAC	
		Dimension (mm)	
		Height H	Handle length W
-015	Y	71	28
-020	Y	74	28
-025	Y	78	40
-032	Y	78	40
-040	Y	91	40
-050	Y	91	40

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