

Instruction manual Manual Butterfly Valve Z

SP-1519

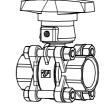
Please read this document before using these valves.

GENERAL

This series is suitable for main or bypass valve in piping system.

Manual operation

Push lever





Valve

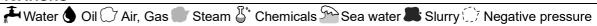
Z type It is small, light weight and economical butterfly valve.
This type designed for 3 piece structure
and it is easy to maintenance.

Threaded End Rc

Socket End

PRODUCT CODE

TRODUCT CODE	
Z type Threaded End F Socket End	RC MACZ-Y-5TU - :: - :: (PVC) MACZ-Y-7TP - :: - :: (C-PVC) MACZ-Y-7TH - :: - :: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)
(1) Actuator MAC	(6) Body material (10) Option T: SCS13A
(2) Valve Z-	(7) Cap material U: SCS14A
(3) Operation Y: Push lever	(7) Socket material P:PVC H:C-PVC
(4) Hyphen	
(5) Connection 5 : Threaded End Rc 7 : Socket End	(8) Seat material E:EPDM B:NBR V:FKM
7 . Sosket End	(9) Size [mm] ex. 25A → 025



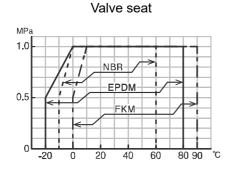
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Valve type		Z		
Design		3 piece structure		
Connection		Threaded End Rc	Socket End	
Fluid		#6 080	#608°5000	
Max pressure		1 MPa		
Size [mm]		015 to 050		
Material	Body	SCS13A		
	Disc	PPS		
	Сар	SCS14A	-	
	Socket	-	PVC C-PVC	
	Seat	EPDM NBR FKM		
Stem seal	O-ring	Depend on seat material		

SEAT MATERIAL GUIDE

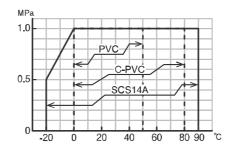
Seat material	Fluid temp.	Use
EPDM	-20 to +80 °C	in Smill
NBR	-10 to +60 °C	6 00
FKM	-0 to +90 °C	B* ()/

- Note) EPDM seat cannot be used for oil.
 - Unsuitable for steam or hot water over 80 °C.
 - Can flow the seawater with PVC socket and EPDM sheet.

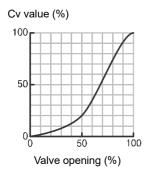
PRESSURE & TEMPERATURE RATING



Cap / Socket



INHERENT FLOW CHARACTERISTIC



Range ability 30:1

HANDLING & STORAGE

①HANDLING

Do not drop or throw the product as it may break.

- **2STORAGE**
- Store away from dust, moisture and direct sunlight. If possible, store in the original package.
- Do not remove a dust proof cap until the piping.
- **3CHECKING**

Please check the product code before installation.

INSTALLATION

OPRECAUTIONS

- Flush the pipeline carefully before installing the valve. Foreign particles, such as sand or pieces of welding electrode, will damage the disk and seats.
- When piping the valve disk should be closed before mounting.
- Avoid oil or grease when using EPDM seat. ②PIPING
- Using a pipe with too long a thread will damage the valve.
- If sealing tape or sealant gets inside the valve, the valve seat leaks or malfunctions.
- When connecting a pipe or fitting to a valve, use a tool on the octagonal or hexagonal part of the insertion side and screw it.
- Refer to the recommended tightening torque table and do not apply excessive torque.

Valve size [mm]	Torque [N·m]
015	25 to 35
020	40 to 50
025	50 to 60
032	60 to 80
040	75 to 85
050	90 to 110

3Socket End

Should use adhesive suitable for valve materials.

@ENVIRONMENT

If there is a possibility that the fluid and drive part freeze, please take measures to prevent freezing.

@POSITIONING

Should be positioned through 90° upward from horizontal. Provide space around the product to allow manual operation, inspection and replacement work.

MANUAL OPERATION

Please open and close the valve while pushing the lever handle.

Excessive force may damage the lever handle.

MAINTENANCE

Do the routine maintenance at least once in half a year. Inspection items

- Confirm operation of opening and closing.
- Confirm whether screws are loose or not.
- · Confirm the leak from valve stem.
- Confirm the fluid temperature or pressure.

TROUBLE SHOOTING

Problem	Cause	Solution	
Stop in the mid position.	Biting of valve seat.	Remove a foreign object.	
Leakage from valve seat	Seat is worn or damaged.	Replace the valve.	
Leakage from valve stem	Packing is worn or distorted.		

For more information contact NIPPON VALVE CONTROLS, INC. for consultation.