Serial No. H-V036E-8

Butterfly Valves

Type 57: 40 mm $(1 \frac{1}{2})$ - 350 mm (14) Body: PVC, PP, PVDF

Type 56: 400 mm (16')

Body: PP, PVDF

Type 56D: 400 mm (16")

Body: PDCPD

User's Manual



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This User's Guide contains information important to the proper installation, maintenance and safe use of the ASAHI AV product store in an easily accessible location.

< Warning & Caution Signs>

Warning	This remark expresses the user to take caution due to the potential for serious injury or death.
Caution	This remark expresses the user to take caution due to the potential for damage to the valve if used in such a manner.

<Prohibition & Mandatory Action Signs>

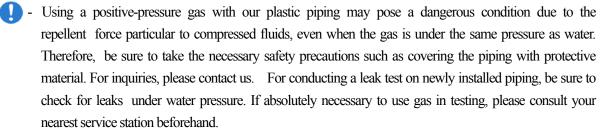
\Diamond	Prohibition: When operating the valve, this remark indicates an action that should not be taken.
0	Mandatory action: When operating the valve, this remark indicates mandatory actions that must be adhered to.

(1) Be sure to read the following description of our product warranty

- Always observe the specifications of and the precautions and instructions on using our product.
- We always strive to improve product quality and reliability, but cannot guarantee perfection.
 Therefore, should you intend to use this product with any equipment or machinery that may pose the risk of serious or even fatal injury, or property damage, ensure an appropriate safety design or take other measures with sufficient consideration given to possible problems. We shall assume no responsibility for any inconvenience stemming from any action on your part without our written consent in the form of specifications or other documented approval.
- The related technicaldocuments, operation manuals, and other documentation prescribe precautions on selecting, constructing, installing, operating, maintaining, and servicing our products. For details, consult with our nearest distributor or agent.
- Our product warranty extends for one and a half years after the product is shipped from our factoryor one year after the product is installed, whichever comes first. Any product abnormality that occurs during the warranty period or which is reported to us will be investigated immediately to identify its cause. Should our product be deemed defective, we shall assume the responsibility to repair or replace it free of charge.
- Any repair or replacement needed after the warranty period ends shall be charged to the customer.
- The warranty does not cover the following cases:
 - (1) Using our product under any condition not covered by our defined scope of warranty.
 - (2) Failure to observe our defined precautions or instructions regarding the construction, installation, handling, maintenance, or servicing of our product.
 - (3) Any inconvenience caused by any product other than ours.
 - (4) Remodeling or otherwise modifying our product by anyone other than us.
 - (5) Using any part of our product for anything other than the intended use of the product.
 - (6) Any abnormality that occurs due to a natural disaster, accident, or other incident not stemming from something inside our product.

(2) General Operating Instructions







- Do not step on the valve or apply excessive weight on valve. (It can be damaged.)
- Keep the valve away from excessive heat or fire.
 (It can be damaged, or destroyed.)



- Operate the valve within the pressure Vs temperature range.
 (The valve can be damaged by operating beyond the allowable range.
- Allow sufficient space for maintenance and inspection.
- Select a valve material that is compatible with the media, refer to "CHEMICAL RESISTANCE ON ASAHI AV VALVE".

(Some chemicals may damage incompatible valve materials.)

- Do not use the valve on condition that fluid has crystallized.
 (The valve will not operate properly.)
- Keep the valve away from places of direct sunlight, water and dust. Use cover to shield the valve. (The valve will not operate properly.)
- Perform periodic maintenance.
 (Leakage may develop due to temperature changes or changes with time during prolonged storage, rest, or operation.)
- Gear Operator Operation; we utilize a self-locking worm gear design on our manual operators. This design allows flow control of the valve in intermediate positions in normal process conditions. In applications where very high velocity, turbulence flow or vibration is present and an intermediate setting is required, It is recommended to install a locking device. The locking device will prevent the possibility of the valve drifting in severe condition form it is original intermediate setting.



(3) General Instructions for Transportation, Unpacking and Storage



- In suspending and supporting a valve, take enough care and do not stand under a suspended valve.



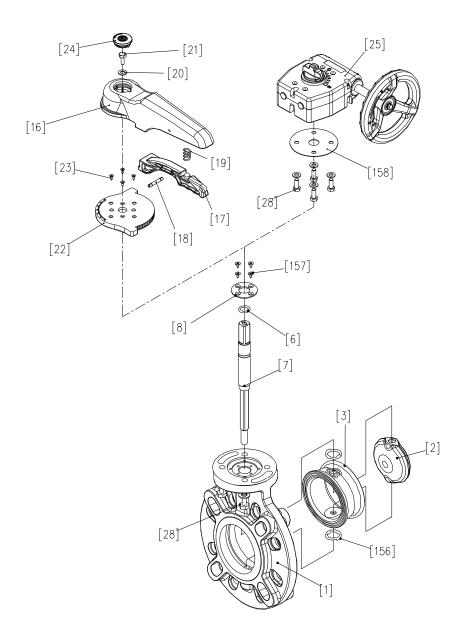
- The valve is not designed to handle any kind of impact. Avoid throwing or dropping the valve.
- Avoid scratching the valve with any sharp object.
- Do not pile up corrugated cardboard packages one on top of another too much. Excessively piled-up packages may collapse.
- Avoid contact with any coal tar creosote, insecticides, vermicides or paint.
 (The force of swelling may damage the valve.)
- When transporting a valve, do not carry it by the handle.



- Keep the piping in the corrugated cardboard boxes, avoid direct sunlight, and store it indoors (at Room Temperature). Also avoid storing it in a place which may become very hot.
 (Corrugated cardboard packages become weaker as they become wet with water or other liquid.
 Take enough care in storage and handling.)
- After unpacking the products, check that they are defect-free and meet the specifications.

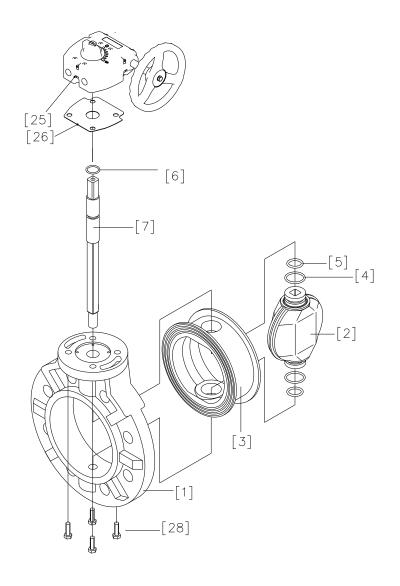
(4) Names of Parts

<u>Type57: 40mm (1-1/2") – 350mm (14")</u> <u>Body material: PVC, PP, PVDF</u>



No.	Description	No.	Description	No.	Description
[1]	Body	[17]	7] Handle Lever		Cap (A)
[2]	Disc	[18]	Pin	[25]	Gear Box
[3]	Seat	[19]	Spring	[28]	Bolt (C)
[6]	O-Ring (C)	[20]	Washer (A)	[156]	Stabilization Ring
[7]	Stem	[21]	Bolt (A)	[157]	Screw (F)
[8]	Stem Holder (A)	[22]	Locking Plate	[158]	Gasket (L)
[16]	Handle (A)	[23]	Screw (B)		_

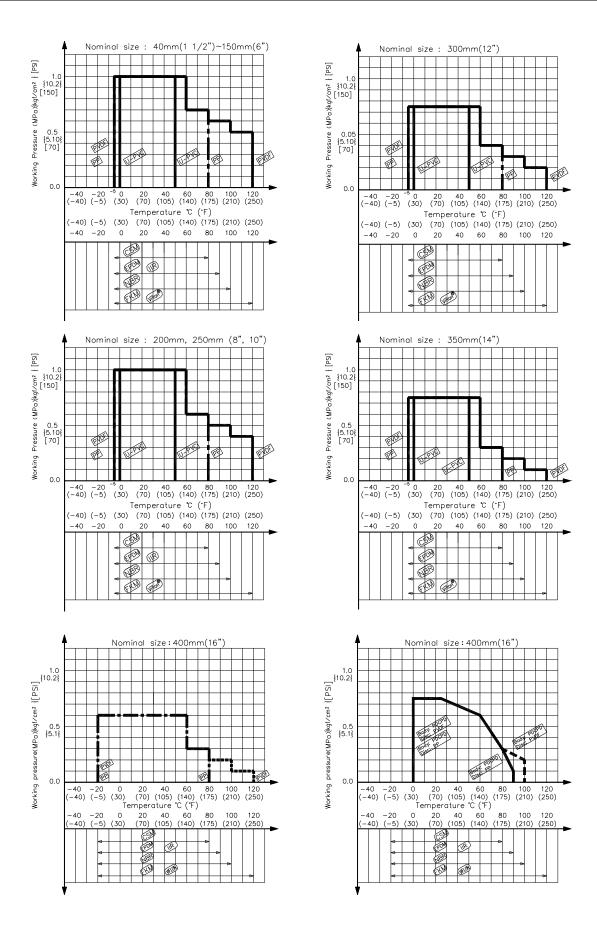
Type56 (Gear Type): 400mm (16") Body material: PP, PVDF, PDCPD*



No.	Description	No.	Description	No.	Description
[1]	Body	[5]	O-Ring (B)	[26]	Gasket (A)
[2]	Disc	[6]	O-Ring (C)	[28]	Bolt (C)
[3]	Seat	[7]	Stem		
[4]	O-Ring (A)	[25]	Gear Box		

^{*} Reference figure

(5) Comparison between working temperature and pressure



(6) Installation Procedure



- In suspending and supporting a valve, take enough care and do not stand under a suspended valve.



- Be sure to conduct a safety check on the machine tools and motor-driven tools to be used, before beginning work.
- Wear protective gloves and safety goggles as fluid remains in the valve.
 (You may be injured.)



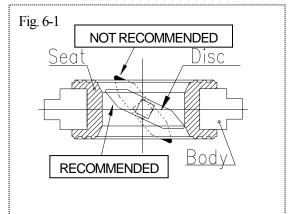
 When installing a pipe support by means of a U-band or something similar, take care not to fasten it too much.

(Excessive tension may damage it.)

- When installing pipes and valves, ensure that they are not subjected to tension, compression, bending, impact, or other excessive stress.
- Use flat faced flanges for connection to AV Valves.
- Ensure that the mating flanges are of the same standards.
- When installing the piping, do not do so with the valves fully closed.
 (The disc may pinch into the seat, resulting in a high operating torque, thus disabling opening and closing.)
- The gasket is unnecessary.
 (The seat carries out the role of the gasket.)

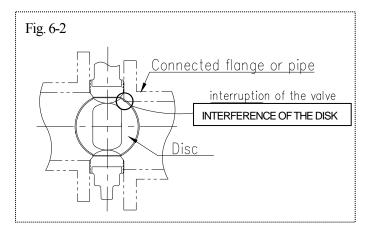


- The valve disc is sent in the position indicated by solid lines in Figure prior to shipment from the factory. If the valve is opened or closed after unpacking, it must be reset in this position before installation. Failure to do so will result in damage to the surface of the valve seat during handling and installation.

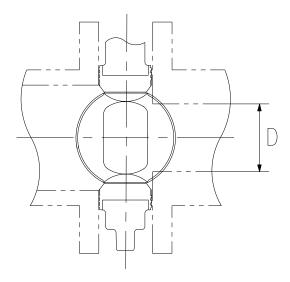




Care must be used during piping installation to ensure that the pipes or flanges are properly aligned so
that the valve disc does not contact them in any setting. Misalignment as in Figure below will result in
damage to the valve.



In case of the thick wall of the connection part (flange and pipe) is too thick, shave the flange or the pipe inside in order to avoid the contact of pipe and disc. If inside diameter of the connection part is larger than size D, shaving is not necessity.



Nominal Size	Diameter D
40mm (1 1/2")	30mm (1.18")
50mm (2")	44mm (1.73")
65mm (2 1/2")	67mm (2.64")
80mm (3")	71mm (2.80")
100mm (4")	90mm (3.54")
125mm (5")	115mm (4.53")
150mm (6°)	136mm (5.35°°)
200mm (8")	179mm (7.05°)
250mm (10")	234mm (9.21")
300mm (12")	284mm (11.18.")
350mm (14")	336mm (13.23")
400mm (16'')	370mm (14.58'')

Necessary items

Torque Wrench

Spanner Wrench

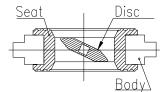
Procedure



Caution

The disk [2] is prevented from overflowing. (The disk [2] is damaged.)

- 1) Install the valve between flanges and open the valve slightly.
- 2) Insert bolts, set nuts and washer and tighten the bolts and nuts temporarily by hand.

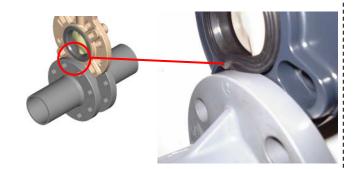






When you insert a valve between flanges, please insert after extending the fields of flanges fully.

(If you insert a valve by force without fully extending fields of flanges, a liner may be turned over and suffer a crack..)



The parallelism and axial misalignment of the flange surface should be under the values shown in the following table



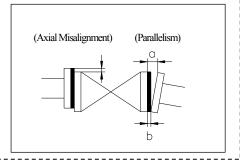


The parallelism and axial misalignment of the flange surface should be under the values shown in the following table to prevent damage the valve.

(A failure to observe them can cause destruction due to stress application to the pipe)

Unit: mm (inch)

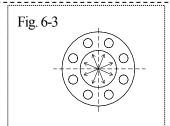
Nom. Size	Axial Misalignment	Parallelism (a – b)
40 - 80mm	1.0	0.8
(1 1/2"-3")	(0.04)	(0.03)
100-150mm	1.0	1.0
(4"-6")	(0.04)	(0.04)
200-400mm	1.5	1.0
(8"-16")	(0.06)	(0.04)



3) Tighten the bolts and nuts gradually with torque wrench to the specified torque in a diagonal manner. (Fig. 6-3)



Tighten the bolts and nuts gradually with a torque wrench to the specified torque level in a diagonal manner.



Recommended torque value

Unit:	N-m	{kgf-cm}	[lb-inch]
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Nom. S	Size	40mm (1 1/2'')	50, 65mm (2",2 1/2")	80, 100 mm (3",4")
Torque	value	20.0 {204} [177]	22.5 {230} [200]	30.0 {306} [266]

Nom. Size	125, 150 mm (5",6")	200, 250 mm (8",10")	300, 350 mm (12",14")	400 mm (16")
Torque value	40.0 {408} [355]	55.0 {561} [488]	60.0 {612} [532]	80.0 {816} [710]

Caution: Avoid excessive tightening. (The valve can be damaged.)

Body Material: PVC, PP, PVDF

<JIS Standard>

Dimension of Insert Bolt A

Nom	Cizo		Bolt (Minimum)		Nut	Washer
Nom. Size		d	L	S	INUL	vvasiici
40mm	1 1/2"		125mm (4.92'')			
50mm	2"		125mm (4.92")	25		16mm
65mm	2 1/2"	M16	130mm (5.12")	35mm (1.38")	M16	(0.63'')
80mm	3"		130mm (5.12°°)	(1.56)		(0.03-)
100mm	4"		145mm (5.71")			
125mm	5"		165mm (6.50°)			20
150mm	6"	M20	175mm (6.89°°)		M20	20mm (0.79'')
200mm	8"		190mm (7.48'')	40mm	(0.79)	
250mm	10"		220mm (8.66°)	(1.57")		22mm
300mm	12"	M22	245mm (9.65°')		M22	(0.87°)
350mm	14"		250mm (9.82")			(0.87)
400mm	16"	M24	300mm (11.81°)	45mm (1.77°)	M24	24mm (0.94")

Dimension of Insert Bolt B

Nom	ı. Size		Bolt (Minimum)			Nut Washer	
Non	i. Size	d_1	L_1	S_1	S_2	Nut	wasner
400mm	16"	M24	120mm (4.72'')	45mm (1.77°)	27mm (1.06°)	M24	24mm (0.94")

Body Material: PDCPD

<JIS Standard>

Dimension of Insert Bolt A

Nom. Size			Bolt (Minimum)		Nut	Washan
Nom	ı. Size	d	L	S	Nut	Washer
400mm	16"	M24	290mm (11.43")	60mm (2.36°)	M24	24mm (0.94")

Dimension of Insert Bolt B

Nom. Size		Bolt (Minimum)		NL-4	We do an	
Non	ı. Size	d_1	L_1	Nut	Washer	
400mm	16"	M24	100mm (3.94°)	M24	24mm (0.94")	

<a href="mailto:Standard

Body Material: PVC, PP, PVDF

Dimension of Insert Bolt A

Nom. Size			Bolt (Minimum)	Bolt (Minimum)		Washer	
INOII	I. SIZE	d	L	S	Nut	vvasner	
40mm	1 1/2"		125mm (4.92")				
50mm	2"		125mm (4.92")	35mm		5/8" Flat	
65mm	2 1/2"	5/8"-11	130mm (5.12")		5/8" - 11	(0.63")	
80mm	3"		130mm (5.12'')	(1.38")			
100mm	4"		145mm (5.71'')				
125mm	5"		165mm (6.50°)			3/4" Flat	
150mm	6"	3/4" - 10	175mm (6.89°)		3/4" - 10	(0.79°)	
200mm	8"		190mm (7.48'')	40mm		(0.79)	
250mm	10"		220mm (8.66°)	(1.57")		7/8" Flat	
300mm	12"	7/8" - 9	245mm (9.65'')		7/8" - 9	(0.87°)	
350mm	14"		250mm (9.82")			(0.87)	
400mm	16"	1"-8	300mm (11.81")	45mm (1.77°)	1"-8	1" Flat (0.94")	

Dimension of Insert Bolt B

Nom. Size			Bolt (M	finimum)		NI4	Washer
NOIT	ı. Size	d_1	L_1	S_1	S_2	Nut	wasner
400mm	16"	1"-8	120mm (4.72")	45mm (1.77°)	27mm (1.06'')	1"-8	1" Flat (0.94")

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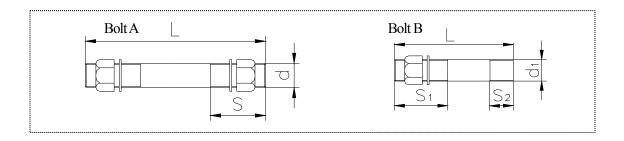
Body Material: PDCPD

Dimension of Insert Bolt A

Nom Ciro			Bolt (Minimum)		NL-4	Western
Non	Nom. Size		L	S	Nut	Washer
400mm	16"	M24	290mm (11.43°)	60mm (2.36°)	M24	24mm (0.94")

Dimension of Insert Bolt B

Nom. Size			Bolt (M	(Iinimum		NL	Washer
Non	ı. Size	d_1	L_1	S_1	S_2	Nut	wasner
400mm	16"	M24	100mm (3.94")	60mm (2.36°)	30mm (1.18'')	M24	24mm (0.94")



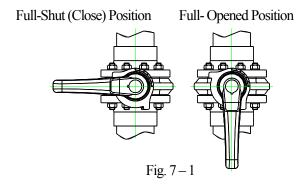
(7) Operating Procedure



- Do not use the valve to fluid containing slurry. (The valve will not operate properly.)



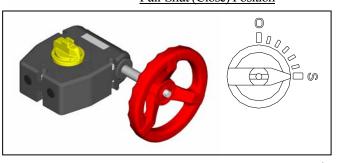
- The installed valve must never be opened or closed when foreign matter such as sand is present in the pipeline.
- Do not exert excessive force in closing the valve.
- When operating the handle, be sure to do so with your hand. (Using a tool may damage the handle.)
- Open and close the valve by turning handle smoothly.
 (Turn clockwise to close and counterclockwise to open.)
- 2) In case of lever type (40-200 mm{1 1/2"-8"}), the direction of handle is same as the disc as shown in Fig. 6-1.
 - For the full-shut (Close) position, the handle is perpendicular to the piping axis direction.
 - For the full-opened position, the handle is parallel to the piping axis direction.

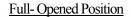


3) In case of gear type (40-400 mm {1 1/2"-16"}), the indicator shows the position of the disc on the top of gear box. (Fig.7-2)

- For the full-shut (close) position, the indication shows Shut (S).
- For the full-opened position, the indication shows Open (O).

Full-Shut (Close) Position





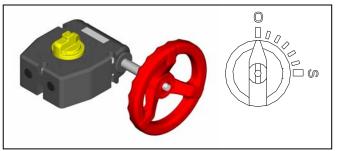


Fig. 7-2



 The adjustments for full-opened and full-shut position are step-less, and it can be done with the stopper adjuster.

Technical Data for Operation

Nom. Size	Stem Torque (N·m)	Required Hand -Wheel Torque (N·m)	Length of Lever and Diameter of Handle (mm)		Required Operating Force (N)	
	Seal	Seal	Lever	Gear	Lever	Gear
40mm (1 1/2")	5	0.4	220	80	23	5.0
50mm (2")	10	0.8	220	80	46	10
65mm (2 1/2")	15	1.2	220	80	68	15
80mm (3")	20	1.7	250	80	80	22
100mm (4")	30	2.5	250	80	120	32
125mm (5")	40	3.3	320	80	125	42
150mm (6")	65	5.4	320	80	205	68
200mm (8")	165	13	420	80	395	163
250mm (10")	250	21	-	80	-	263
300mm (12")	330	22	-	150	-	147
350mm (14")	400	27	-	150	-	180
400mm (16'')	750	53	-	150	-	167

Note: Data mentioned in the table above is reference only.

These data are measured in standard condition and it slightly differs depending on conditions.

(8) Disassembly and Assembly Procedure for Parts Replacement



- The handle part can be removed with line pressure present. The stem retainer can't be removed with line pressure present. If stem retainer needs to be removed, there can not be line pressure present.



- Wear protective gloves and safety goggles as fluid remains in the valve. (You may be injured.)
- When installing pipes and valves, ensure that they are not subjected to tension, compression, bending, impact, or other excessive stress.
- Do not change or replace valve parts under line pressure.

Necessary items			
 Protective Gloves 	Vise	 Circular Stick (Plastic or 	r Wood)
Goggles	Grease (Silicone)	 Pressing Machine 	Screw Driver (+)
Spanner Wrench	Square Lumber	Hammer	• Screw Driver (–)

<< Disassembly >>

Procedure

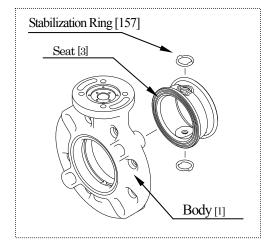
- 1) Drain fluid completely from the pipeline.
- 2) Leave the valve slightly opened.
- 3) Loosen the connecting bolts and nuts.
- 4) Remove the valve from the pipeline.

Lever Type < Nominal size 40mm-200mm (1 1/2"-8")

- 5) To remove handle[16], first take off the cap [24] by using screw driver (–) and release bolt [21] by using socket wrench, then pull up the handle [16] while holding handle lever[17].
- 6) To take off locking plate [22], release 4 self-tapping screws [23] by using screw driver(+) and take off stem holder[8].

Gear Type <Nominal size 40mm-400mm (1 1/2"-16")

- 5) Loosen set bolt [28] for gear box [25] and pull off the gear box upward with gasket [158]*. (*Nominal Size: 400mm is gasket [25])
- 6) <Nominal size 40mm-350mm (1 1/2"-14") *It advances 400mm (16") as follows.> To take off stem holder [8]. Release 4 tapping screws [157] by using screw driver (+).



Lever & Gear Type

- 7) Hold flat surface of Stem [7] with vise and pull off valve body[1].
- 8) (A) Set the valve body [1] on square lumbers at edges of valve body on the press and put a lumber on the disc[2]. Operate the press slowly and push disc [2] and seat [3] out if the valve body[1].
 - (B) Set the valve body [1] on square lumbers at edges of valve body and put a circular stick on the disc[2]. Strike the circular stick with a hammer and remove disc [2] and seat [3] out of the valve body[1].
- 9) Set the disc [2] parallel to the working desk to half opened position. Push the seat[3], and remove the disc[2].
- 10) <Nominal size 40mm-350mm (1 1/2"-14") *It advances 400mm (16") as follows.> Remove the stabilization ring [156] and the O-ring(C) [6]from the stem[7].

<< Assembly >>

Procedure

- 1) Put the O-ring(C) [6] onto the stem[7].
- 2) Before starting assembly, grease (Silicone) should be spread on the top and bottom disc[2], the stem hole of the seat [3] and the stem O-ring(C)[6].
- 3) <Nominal size: 40mm-350mm(1 1/2"-14") *It advances 400mm (16") as follows.> Insert the stabilization ring [156] into the upper side slot of the seat [3]. The upper side slot of seat [3] has larger stem hole than lower side.



Caution

Make certain tabs are properly aligned. Both upper and lower stabilization ring [156] are identical.

- 4) Insert the stem [7] about 1/3 into the body [1]. Install the seat [3] into the body [1] by aligning upper seat stem hole with the stem [7].
- 5) Collapse the left or right side of seat [3] in towards opposing side exposing lower stem hole by screw driver (–).

 Nominal size: 40mm-350mm (1 1/2"-14") *It advances 400mm (16") as follows.>
 Install the stabilization ring [156] into the body [1] aligning tabs of ring with center groove of the body [1]. Seat [3] tabs should line up when bottom of seat is reset into body of valve.
- 6) Remove the stem [7].
- 7) Reset the seat [3] into the body [1].



Caution

<Nominal size: 40mm-350mm(1 1/2"-14") *It advances 400mm (16") as follows.>

Make certain stabilization rings [156] sit flush inside of seat [3] with tabs properly aligned. If stabilization rings [156] are not installed correctly, the seat [3] will not sit in the body [1] properly. This is indicated by a visible gap between seat [1] and body [1], and disc [2] will not fit properly.

- 8) To install disc [2], make certain valve size on disc [2] is in upright direction. Install top of disc [2] into seat [3] aligning with upper stem hole.
- 9) Rotate disc [2] to 75% (Approx.) closed position and install stem [7] about 50% into the body [1].
- 10) Press in bottom of disc [2] to lower stem hole.



!\ Caution

Look into valve body [1] to be certain full square in disc [2] is centered with upper valve [1] stem hole. If not, repeat step 8),

Make certain line scribed on top of stem [7] indicates disc [2] position while installing stem [7].

- 11) Install the stem [7] into valve body [1] and disc [2]. If disc [2] is properly aligned, stem [7] should slide in smoothly. If stem [7] does not slide in smoothly, report from step 8) to properly align the disc [2] in the valve body [1].
- 12) <Nominal size: 40mm-350mm(1 1/2"-14") *It advances 400mm (16") as follows.> Install stem holder [8] onto valve body [1] with countersunk holes facing up using 4 screws [157].
- 13) To install lever or gear operator reverse disassembly procedure #5).
- 14) After assembly, make sure that the valve can be fully opened and closed smoothly.

(9) Installation procedure for handle

Necessary items

Plastic Hammer

- Socket Wrench
- •Screw Driver(–)

Goggles

Protective Gloves



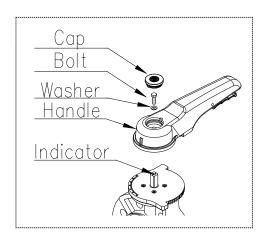
Caution

Do not give any unjust force to cap, in installing or removing the cap. (It can be damaged)

《Installation》

Procedure

- 1) Install the handle on the stem. Set the direction of handle in the indication line at the top of stem.
- Fix the handle at the top of stem with the attached bolts and washer by using socket wrench.
- Set the convex part at the side of the cap and the concave of the handle, and set in the cap by striking lightly by using a plastic hammer.

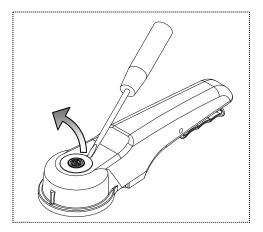


Nominal Size	40-100mm (1 1/2"-4")	125-200mm (5"-8")
Bolt Size	M6×15L	M8×15L
Socket Size	10	13

《Remove》

Procedure

- To remove the cap, push up the side of the cap by using screw driver
 (-).
- Loose the bolts and washer by using socket wrench, then remove the handle.





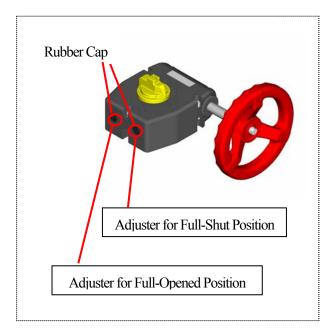
- Do not give any unjust force to cap, in installing or removing the cap. (It can be damaged)

(10) Adjustment Procedure for Stopper Gear Type

Necessary Items

• Allen Wrench

The adjustments for full-opened and full-shut position are step-less, and it can be done with the stopper adjuster.



Adjustment for Full-shut (Full-opened) position

- Remove the rubber cap of Full-closing (Full-opening) adjuster.
- 2) Loosen the first stopper hex-bolt completely by allen wrench.
- 3) Adjust the disc of valve to required position.
- 4) Tighten the stopper hex-bolts.
- 5) Put the rubber cap of Full-closing (Full-opening) adjuster back on gearbox by hand.

Butterfly Valves (40-400mm)

(11) Inspection Items



- Perform periodic maintenance.

(Leakage may develop due to temperature changes or changes with time during prolonged storage, rest, or operation.)

Inspect the following items.

(1)	Check for flaw, crack, or deformation on the valve.
(2)	Check for leaks to the outside.
(3)	Check for the deformation of seat due to improper installation of valve.
(4)	Check for the smoothness of handle operation

(12) Troubleshooting

Phenomenon	Cause	Treatment
	1) The stopper is not set correctly.	Adjust the stopper.
	2) The seat is damaged or worn.	Replace the seat.
Fluid is not stopped in the full closed position at the seat.	3) Foreign materials are caught.	Clean it up.
closed position at the seat.	4) The disc is damaged or worn.	Replace the disc.
	5) The connecting bolts are over tightened or tightened unevenly.	Adjust and retighten.
	1) The seat is damaged or worn.	Replace the seat.
Fluid leaks to the outside.	2) The connecting bolts are not tightened in proper torque or evenly.	Adjust and retighten.
	Foreign materials have adhered.	Clean it up.
The handle does not work smoothly.	2) The gear box is damaged.	Repair or replace.
	3) The connecting bolt is over tightened.	Adjust and retighten.
Valva does not apareta	1) The gear box is damaged	Repair or replace.
Valve does not operate	2) The stem is damaged.	Replace the stem.

Butterfly Valves (40-400mm)

(13) Handling of Residual and Waste Materials



Make sure to consult a waste treatment dealer to dispose of the valves. (Poisonous gas is generated when the valve is burned improperly.)

Butterfly Valves

40mm-350mm(1 1/2"-16") Type 57 400mm(18") : Type 56



Asahi Organic Chemicals Industry's homepage http://www.asahi-yukizai.co.jp/en/

Information in this manual is subject to change without notice.