

DIMAX BUTTERFLY VALVE

DN50-300 GEAR OPERATOR



APPLICATION

DIMAX Gear Operators are compatible with Lugged and Wafer DIMAX Butterfly Valves.

TECHNICAL DATA

Size Range

DN50-DN300

CERTIFICATIONS

Fusion bonded polymeric coating to AS/NZS 4158

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LINE DRAWING 1

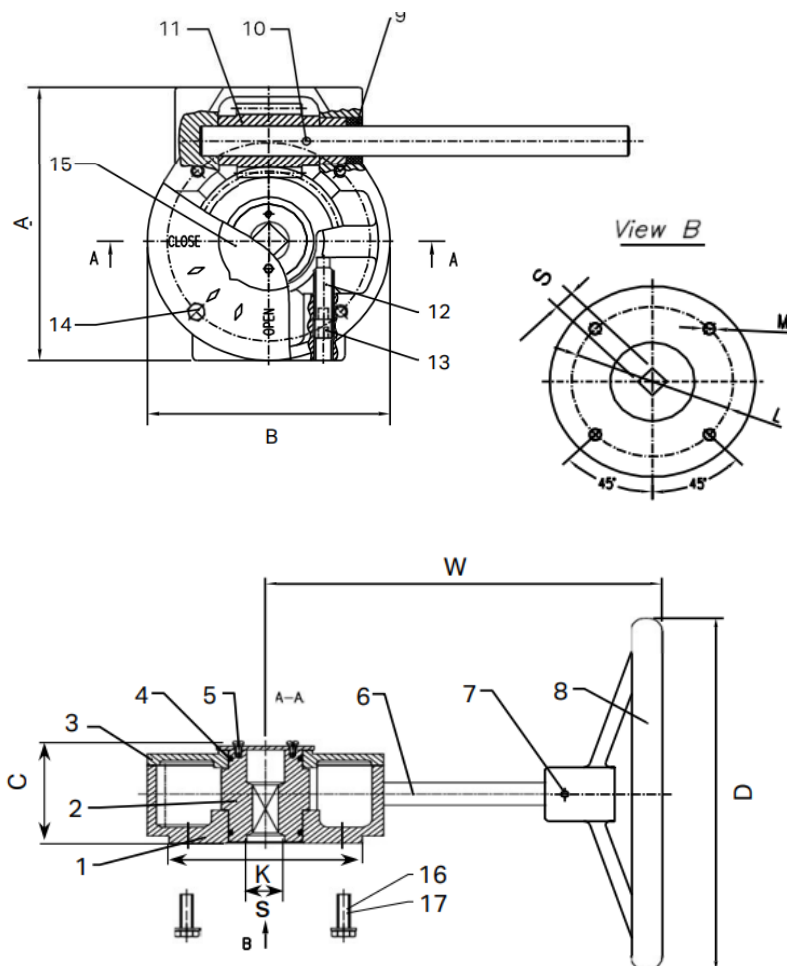


TABLE 1

NO.	DESCRIPTION	MATERIAL
1	Body	Cast Iron
2	Worm Wheel	Ductile Iron
3	Bonnet	Cast Iron
4	O-Ring	NBR
5	Screw	316 Stainless Steel
6	Stem	316 Stainless Steel
7	Pin	316 Stainless Steel
8	Handwheel	Cast Iron
9	Seal	Stainless Steel/Rubber
10	Pin	Carbon Steel
11	Worm	Carbon Steel
12	Limit Screw	Carbon Steel
13	Screw	316 Stainless Steel
14	Bolt	316 Stainless Steel
15	Indicator	304 Stainless Steel
16	Bolt	316 Stainless Steel
17	Washer	316 Stainless Steel

TABLE 2

DN	A mm	B mm	C mm	D mm	W mm	DIMENSIONS OF CONNECTION					RATIO mm	MAX TORQUE OUTPUT Nm	WEIGHT kg
						K	L	M	M mm	S			
50-80	126	105	65	185	165	Ø90	Ø70	4 – M8	25	11	24:1	270	5
100-125	126	105	65	185	165	Ø90	Ø70	4 – M8	25	14	24:1	270	5
150	126	105	65	185	165	Ø90	Ø70	4 – M8	30	17	24:1	270	5
200	176	152	83	290	245	Ø125	Ø102	4 – M10	30	17	30:1	700	10
250	176	152	83	290	245	Ø125	Ø102	4 – M10	30	22	30:1	700	10
300	197	161	90	295	235	Ø150	Ø102	4 – M10	35	22	50:1	1200	13

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DN50-300 GEAR OPERATOR – INSTALLATION AND MAINTENANCE



INSTALLATION AND MAINTENANCE

- Manually turn gear operator handwheel until indicator is pointed to the open position (image 1)
- Using the handle, manually open the butterfly valve to ensure the disc is in fully open position
- Remove original handle, notch plate and bolts from the butterfly valve (image 2)
- Fit gear operator onto the butterfly valve stem, aligning square cutout with square stem
- Bolt together using bolts and washers supplied



IMAGE 1



IMAGE 2

ADJUSTMENT OF "CLOSED" POSITION TRAVELSTOP

- Remove outer set screws to access the adjustment screws (image 3)
- Looking at the end of the gear operator (image 4), the top screw is for close adjustment
- Loosen the close adjustment screw and turn handwheel until valve disc is in fully closed position
- Fully closed position for valve disc is against valve rubber seal face. Do not force disc hard into seal face or seal face could be damaged (image 5)
- Carefully re-tighten the close adjustment screw
- Replace the outer set screw



IMAGE 3

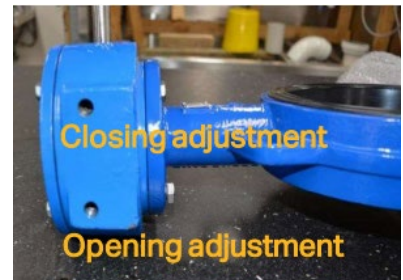


IMAGE 4

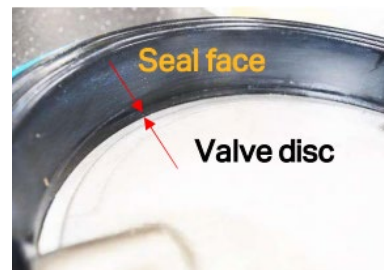


IMAGE 5



IMAGE 6

ADJUSTMENT OF "OPEN" POSITION TRAVELSTOP

- Remove the outer set screws to access the adjustment screws
- Looking at the end of the gear operator (image 4), the bottom screw is for open adjustment
- Loosen the open adjustment screw and turn handwheel until the valve disc is in fully open position
- Carefully re-tighten the open adjustment screw
- Replace outer set screw



IMAGE 7

LUBRICATION

When servicing gear operator, proper lubrication maintenance is necessary if unit is low to operate or noisy to ensure smooth operation and long service life. Failure to maintain unit properly may lead to loss of performance or premature failure of the unit.

1. Remove 4 bolts and 2 screws to remove housing cover and indicator plate (image 6)
2. Apply generous amount of petroleum-based lubricant/grease to coat entire shaft inside housing (image 7)
3. Apply grease into the worm gear teeth. After applying the grease, rotate the worm gear for at least 2 complete cycles. Check for even layer of grease and re-apply more grease if necessary (image 7)
4. Replace 4 bolts and 2 screws to install housing cover and indicator plate