

Dura

Gas Butterfly Valve

Specifications

Recommended use	The Dura butterfly valve is a soft sealing valve for installation with flanges drilled in accordance with AS 2129 Table E. Engineered for long-term, maintenance-free performance in natural gas, LPG distribution systems.
Features	Light-weight compact design Epoxy Coating Corrosion Resistant Low Torque Operation BIM-MEP ^{AUS} models available
Application	Compressed air, natural gas, propane, butane, petroleum oil, mineral oil and grease, diesel fuel, fuel oils
Working Pressure	1050 kPa
Temperature Range	0°C to 80°C
Warranty	12 Months
Standards	AS4617: Manual Shut Off Gas Valves
GasMark Approval	GMK 10109

Materials

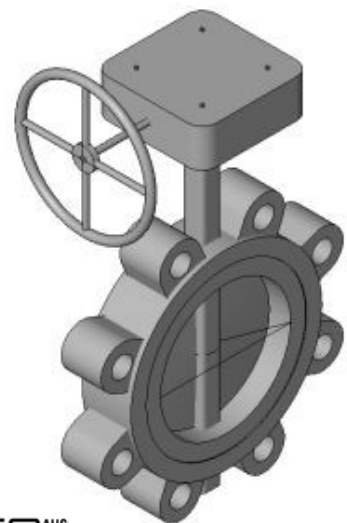
Body	Cast Iron w/Epoxy Coating
Shaft	416 Stainless Steel
Disc	316 Stainless Steel
Bushing	PTFE
Liner	NBR
O-Ring	NBR

Product Image



BIM-MEP^{AUS} 3D Model

This product is available as a 3D Revit CAD download file via the BIM-MEP^{AUS} website.



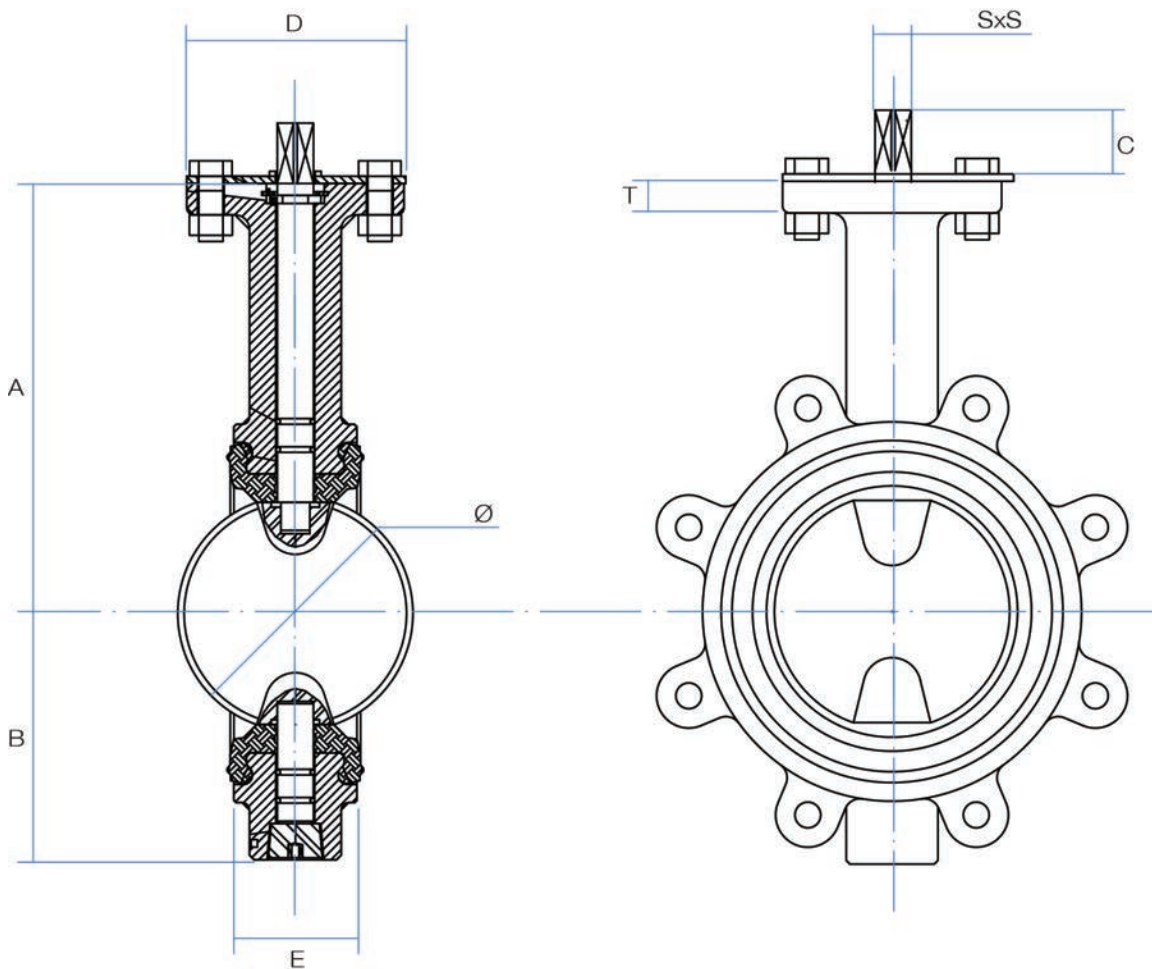
BIM-MEP^{AUS}

Dura Gas Butterfly Valve

Dimensions

Product Code	Product Description	A	B	C	D	E	φ	SXS	Weight
		mm	mm	mm	mm	mm	mm	mm	kg
1011542	DURA GMK B/FLY VALVE LUGG S/S 50MM	112	68	30	90	43	56.8	11X11	2.9
1011543	DURA GMK B/FLY VALVE LUGG S/S 65MM	120	70	30	90	45	71.5	11X11	3.4
1011544	DURA GMK B/FLY VALVE LUGG S/S 80MM	130	78.5	30	90	46	83	11X11	3.6
1011545	DURA GMK B/FLY VALVE LUGG S/S 100MM	145	94	30	90	51.5	101.5	14X14	6.0
1011548	DURA GMK B/FLY VALVE LUGG S/S 125MM	160	106	30	90	56	127.8	14X14	7.9
1011549	DURA GMK B/FLY VALVE LUGG S/S 150MM	175	120	30	90	56.5	151.1	17X17	10.4

Product Drawing



Disclaimer: Products in this specification manual must by regulation be installed by licensed and registered trade people. The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. Dimensions and set-outs listed are correct at time of publication however the manufacturer/distributor takes no responsibility for printing errors.

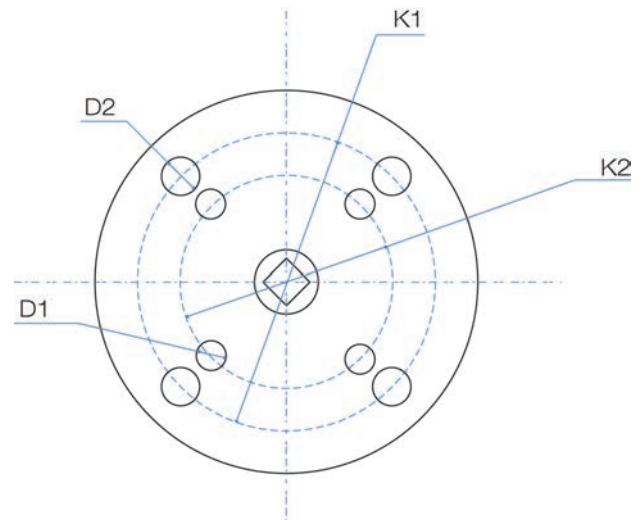


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Top Flange Dimensions

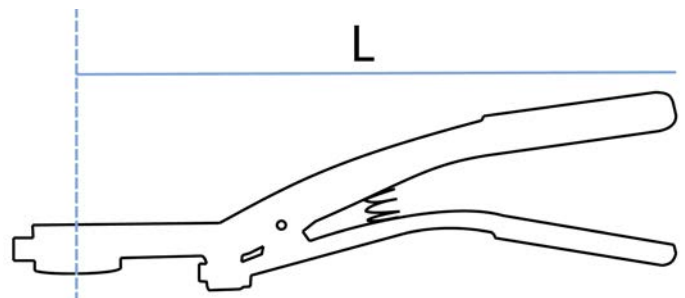
Size	T*	K1	K2	D1	D2
DN	mm	mm	mm	mm	mm
50	12	70	50	7	9
65	13	70	50	7	9
80	13	70	50	7	9
100	14	70	-	9	-
125	14	70	-	9	-
150	14	70	-	9	-

* Refer to T dimensions on page 2



Lever Handle Dimensions

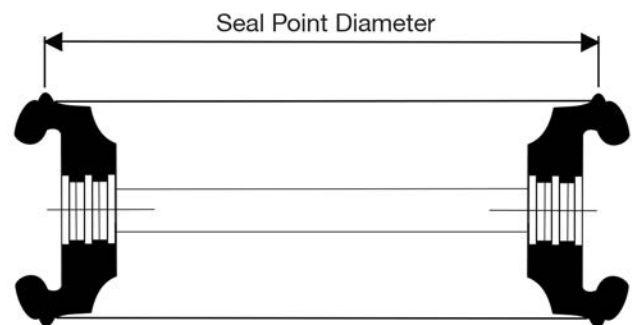
Size	L	Valve Weight Including Lever	Torque Rating
DN	mm	kg	Nm
50	260	3.8	25
65	260	4.2	40
80	260	4.6	50
100	260	6.9	50
125	260	8.7	75
150	260	11.3	90



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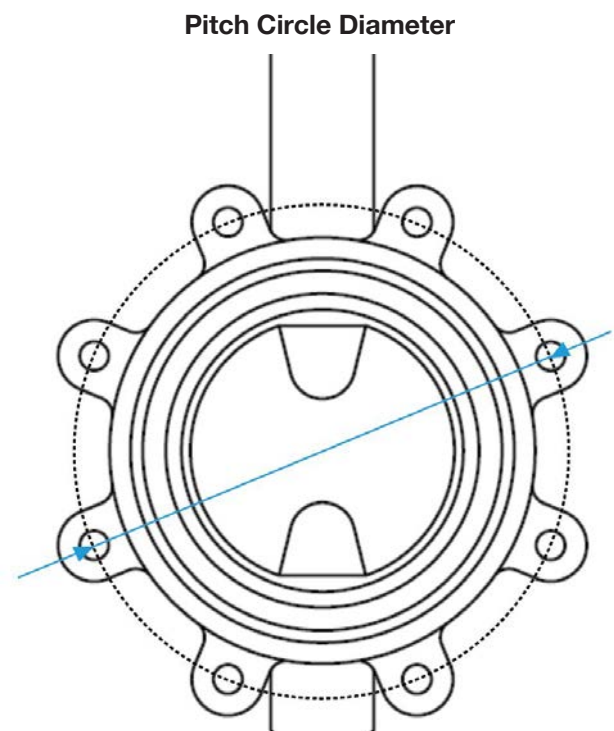
Seal Point Diameter (ø)

Size	Seal Point Diameter (ø)
DN	mm
50	70
65	88
80	103
100	123
125	148.5
150	174



Pitch Circle Diameter (ø)

Size	Pitch Circle Diameter (ø)
DN	mm
50	114
65	127
80	146
100	178
125	210
150	235



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INSTALLATION NOTES

Location

Consideration should be given to the location of the valves in the piping system. The valve should not be placed too close to other valves, elbows, etc. as its performance may be affected. It is recommended that the valve have a minimum of six pipe diameters upstream and four pipe diameters downstream between it and other valves, elbows, etc. in the piping system.

Gaskets

When mated to flat faced flanges, Dura Butterfly Valves do not require a gasket. If the mating flange has raised face, a gasket may be required to ensure adequate sealing and to prevent the flange from damaging the normal rubber seal. Ensure all mating surfaces are clean and smooth before installation.

Welded Flanges

Wait for pipe and flanges to cool before installing the valve. Never complete the welding (after tacking) with the valve between flanges as heat transfer will cause severe seat damage.

Maintenance

It is recommended that bolt tightness is checked one week after installation. For systems with significant temperature changes, the bolt tightness should be regularly checked.

INSTALLATION INSTRUCTIONS

- Step 1:** Dura Butterfly Valves are bi-directional and can be installed in a vertical or horizontal position. Check that the existing pipe sizes match the inlet and outlet sizes of the unit being installed. If pipeline strain is a concern with larger Butterfly Valves and accessories, additional support may be necessary
- Step 2:** Special flange gaskets are not required because the extruded portion of the seat functions as a gasket.
- Step 3:** Make sure the Butterfly Valve disc is within the seat (Approx. 5-10° open)
- Step 4:** Align the pipe-work, and spread the flanges enough to allow the valve body to be easily inserted between the flanges without contacting the pipe flanges. Place the Butterfly Valve into position. The bolt holes on the lug valves should be aligned with the flange bolting.
- Step 5:** Tapped lug valves are installed between the flanges with small cap screws on the inlet and the outlet of the valve.
- Step 6:** Install lubricated flange bolts and hand tighten.
- Step 7:** Open valve slowly to make sure that the disc does not make contact with the piping or the flanges. Close the valve slowly.
- Step 8:** Fully open valve and tighten flange bolts as per below directions.
- Step 9:** Repeat a full close to full open rotation of the disc to ensure proper clearances.

FLANGE BOLTING SEQUENCE

Ensure that bolts are lubricated before assembly and tightened in a cross pattern (both 1, 2, 3, then 4 as shown at right) sequence to achieve an even seal pressure across flange.

