

Dura

Water Lugged 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, Dura butterfly valves are selected for a wide range of industries.
Features	Light-weight compact design Epoxy Coating Corrosion Resistant Low Torque Operation
Working Pressure	1600 kPa
Temperature Range	-10°C to 120°C
Warranty	12 Months
Standards	ATS 5200.012 Flange - AS2129 Table E Top Flange - ISO5211/1
WaterMark Approval	WM-020013

Product Image



Materials

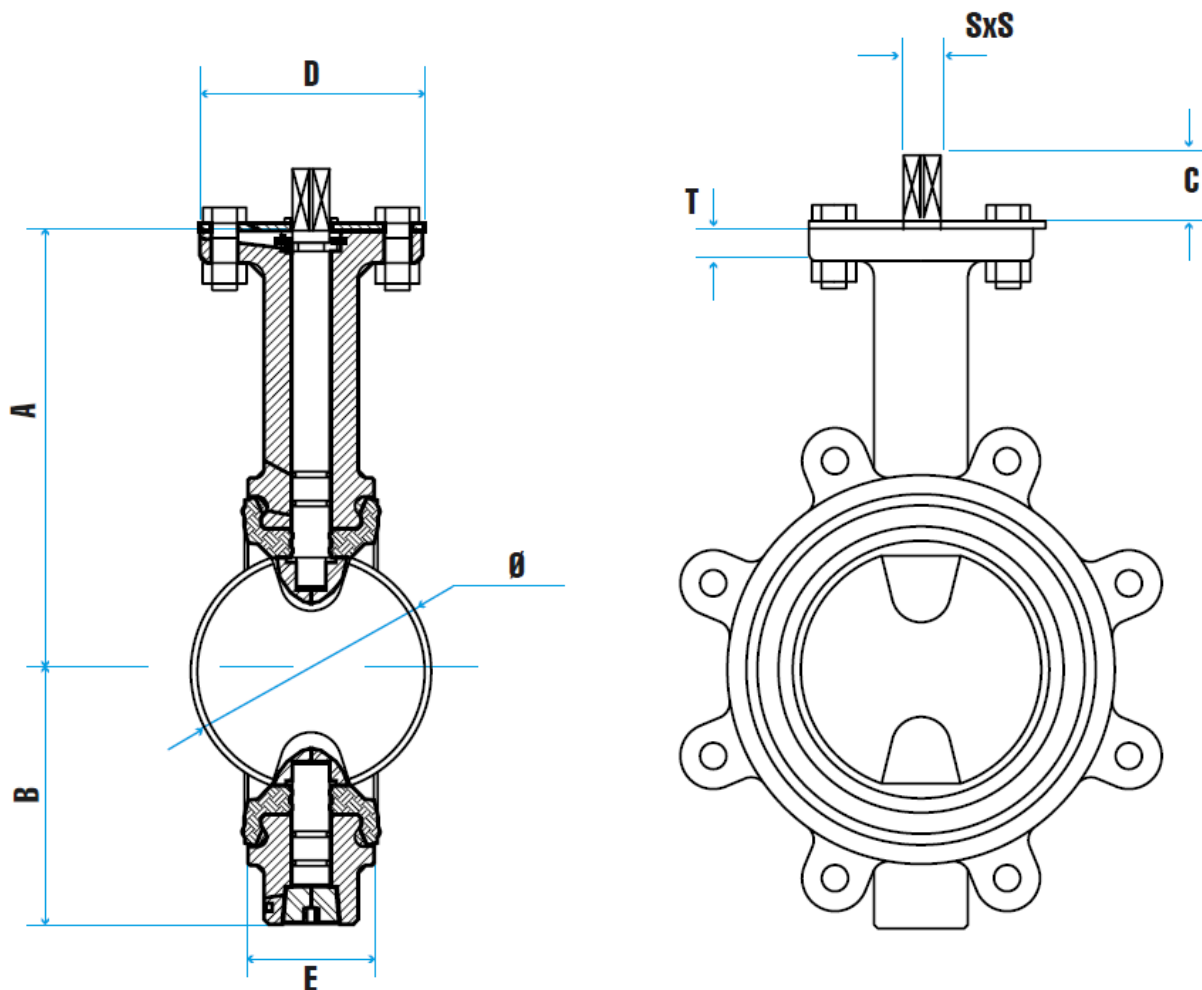
Body	Cast Iron w/Epoxy Coating
Shaft	416 Stainless Steel
Disc	316 Stainless Steel
Bushing	PTFE
Liner	EPDM
O-Ring	EPDM

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Dimensions

Product Code	Product Description	A	B	C	D	E	φ	SXS	Weight
		mm	mm	mm	mm	mm	mm	mm	kg
1011564	DURA B/FLY VALVE LUGG S/S 50MM	140	68	30	90	43	56.8	11X11	3.0
1011570	DURA B/FLY VALVE LUGG S/S 65MM	152	76	30	90	45	71.5	11X11	3.4
1011576	DURA B/FLY VALVE LUGG S/S 80MM	160	85	30	90	46	83	11X11	3.7
1011582	DURA B/FLY VALVE LUGG S/S 100MM	180	100	30	90	51.5	101.5	14X14	6.5
1011588	DURA B/FLY VALVE LUGG S/S 125MM	191	120	30	90	56	127.8	14X14	8.3
1011594	DURA B/FLY VALVE LUGG S/S 150MM	202	132	30	90	56.5	151.1	17X17	10.2
1011600	DURA B/FLY VALVE LUGG S/S 200MM	237	164	30	125	60	200.5	17X17	16.8
1011596	DURA B/FLY VALVE LUGG S/S 250MM	274	200	30	125	68.5	251.3	22X22	24.2
1011599	DURA B/FLY VALVE LUGG S/S 300MM	313	230	30	125	79.5	300.5	22X22	34.2

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.

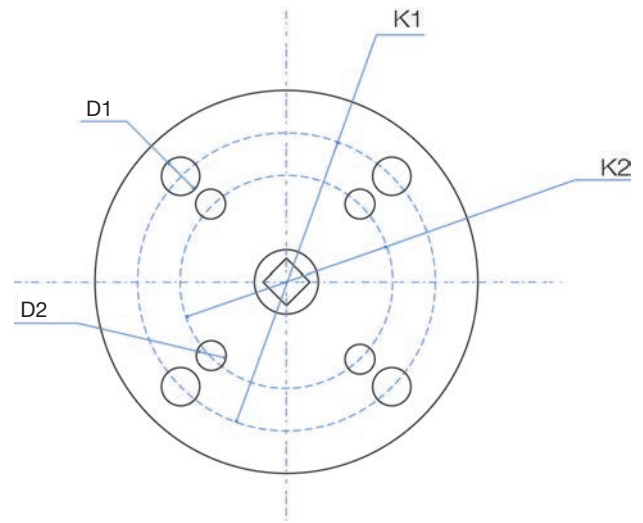


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Top Flange Dimensions

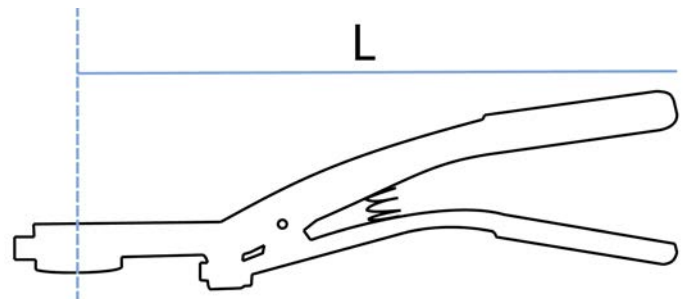
Size	T*	K1	K2	D1	D2
DN	mm	mm	mm	mm	mm
50	12	70	50	7	9
65	13	70	50	7	9
80	13	70	50	7	9
100	14	70	-	9	-
125	14	70	-	9	-
150	14	70	-	9	-
200	14	102	-	11	-
250	16	102	-	11	-
300	18	102	-	11	-

* Refer to T dimension on page 2



Lever Handle Dimensions

Size	L	Valve Weight Including Lever	Torque Rating
DN	mm	kg	Nm
50	258	3.8	25
65	258	4.3	40
80	258	4.5	50
100	258	7.3	50
125	263	9.0	75
150	263	11.0	90
200	330	18.1	155
250	418	26.0	215
300	418	36.0	380

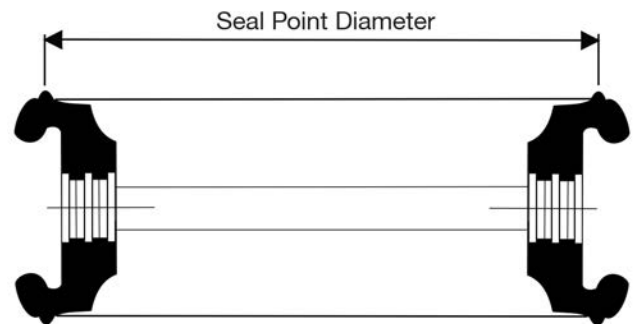


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Seal Point Diameter (ϕ)

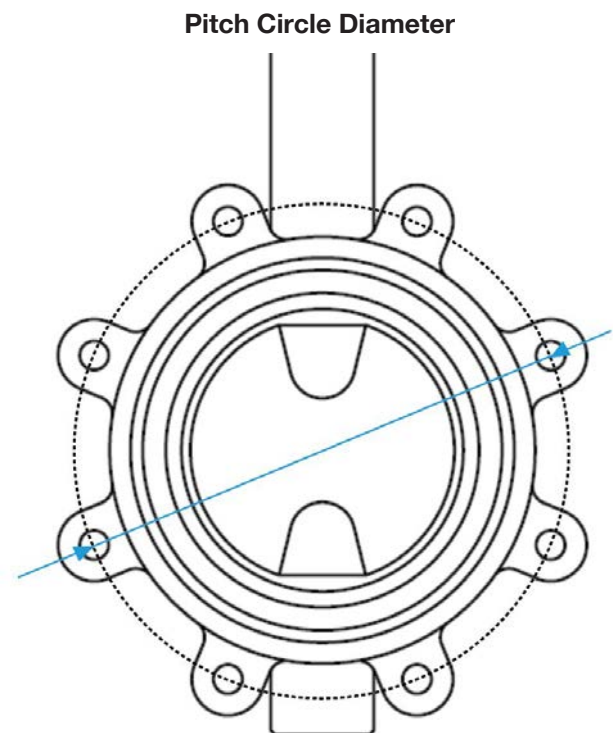
Size	Seal Point Diameter (ϕ)
DN	mm
50	70
65	88
80	103
100	123
125	148.5
150	174
200*	213 & 229
250*	264 & 280.5
300*	311.5 & 326

* Double bead seal



Pitch Circle Diameter (ϕ)

Size	Pitch Circle Diameter (ϕ)
DN	mm
50	114
65	127
80	146
100	178
125	210
150	235
200	292
250	356
300	406



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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.

