

Butterfly Valves

LBF Series

Wafer Type



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Introduction

Lubi LBV type Butterfly Valves are offered with Wafer type body .

The valves are available with two types of liners : our replaceable body liner provides a superior groove type seat design which results in a longer service life comparing to conventional butterfly valves.

These type of valves can be used in a wide range of applications such as fire, chemical, oil HVAC & process industries & especially in water supply & waste water treatment pipelines.

The main advantage of these type of valves is their Simple Construction, Compact Design, Fast Operation, Low Cost & Small Installation Footprint. It is a bi-directional valve & hence can be installed in any direction & can prevent tight shut off sealing in any direction of flow.

Main Features

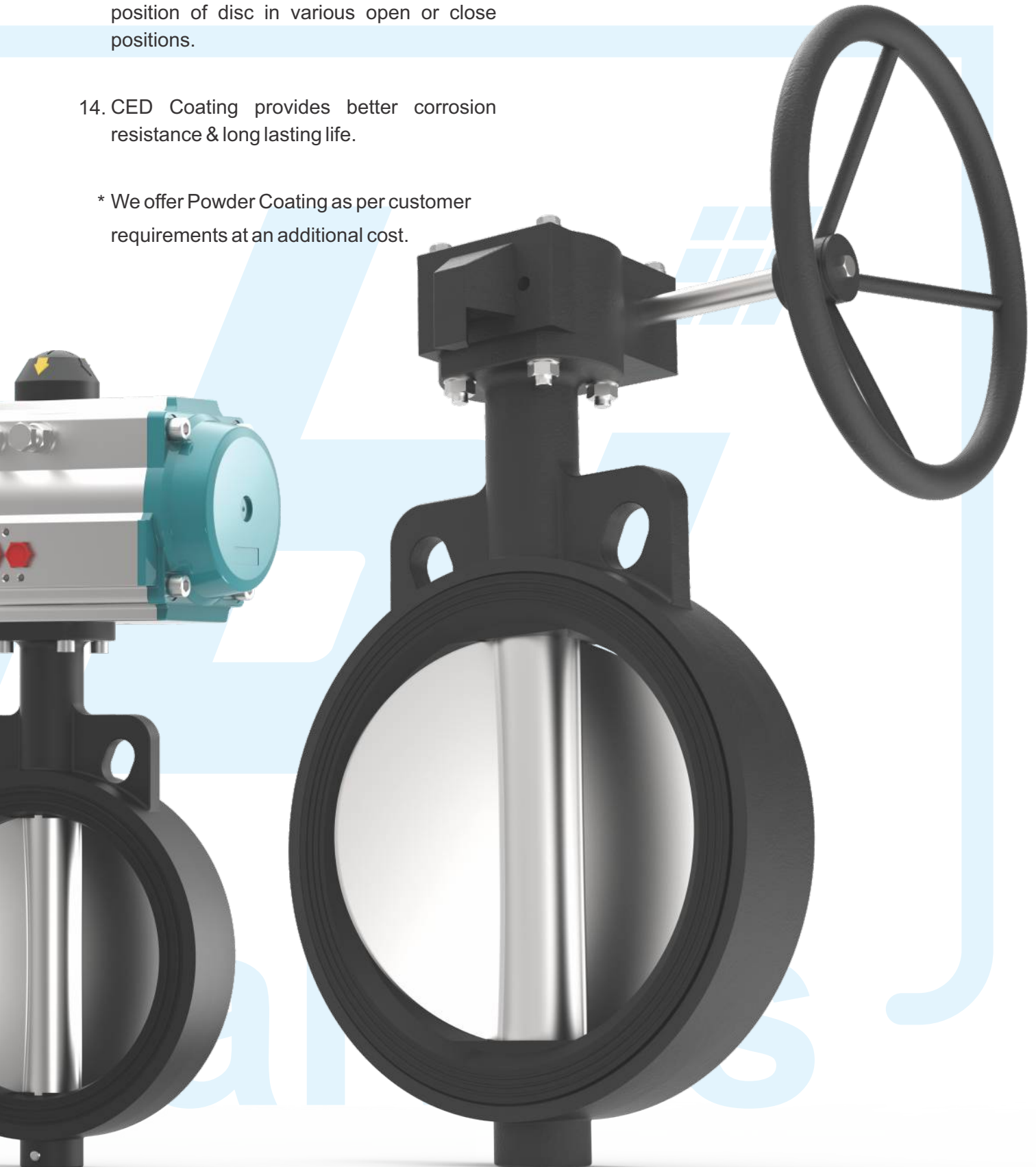
1. Very easy to open & close through a quarter turn.
2. We provide ISO5211 mounting pad on the top flange for direct mounting of Pneumatic as well as Electric actuators.
3. Square Stem Connection can be provided for direct actuator mounting if required by customer.
4. Anti Blowout design prevents the stem from blowing out when the valve is under pressure.
5. Locating Holes for Bolts are provided for easy installation of valve between companion flanges.
6. Triple Stem Seal prevents any leakage and also any foreign particles from entering the valve.
7. Double O-Rings are molded in the Liner itself which acts as seal & also prevents any leakage through the stem.
8. Removable Liner as well as Liner molded integrally with Body can be provided.
9. Liner itself acts as a Gasket while installation of valve between two flanges which eliminates the requirement of using any separate gasket between valve face & companion flange.
10. Close Interference between Disc & Liner provides Tight Sealing.
11. The Body Liner has flat area at the top & bottom surface from where the stem passes through. This interference between stem & the wide flat area of Liner prevents any fluid from entering the stem cavity & thus leakage.
12. Easy to install due to compact design & less space requirements at the place of installation.

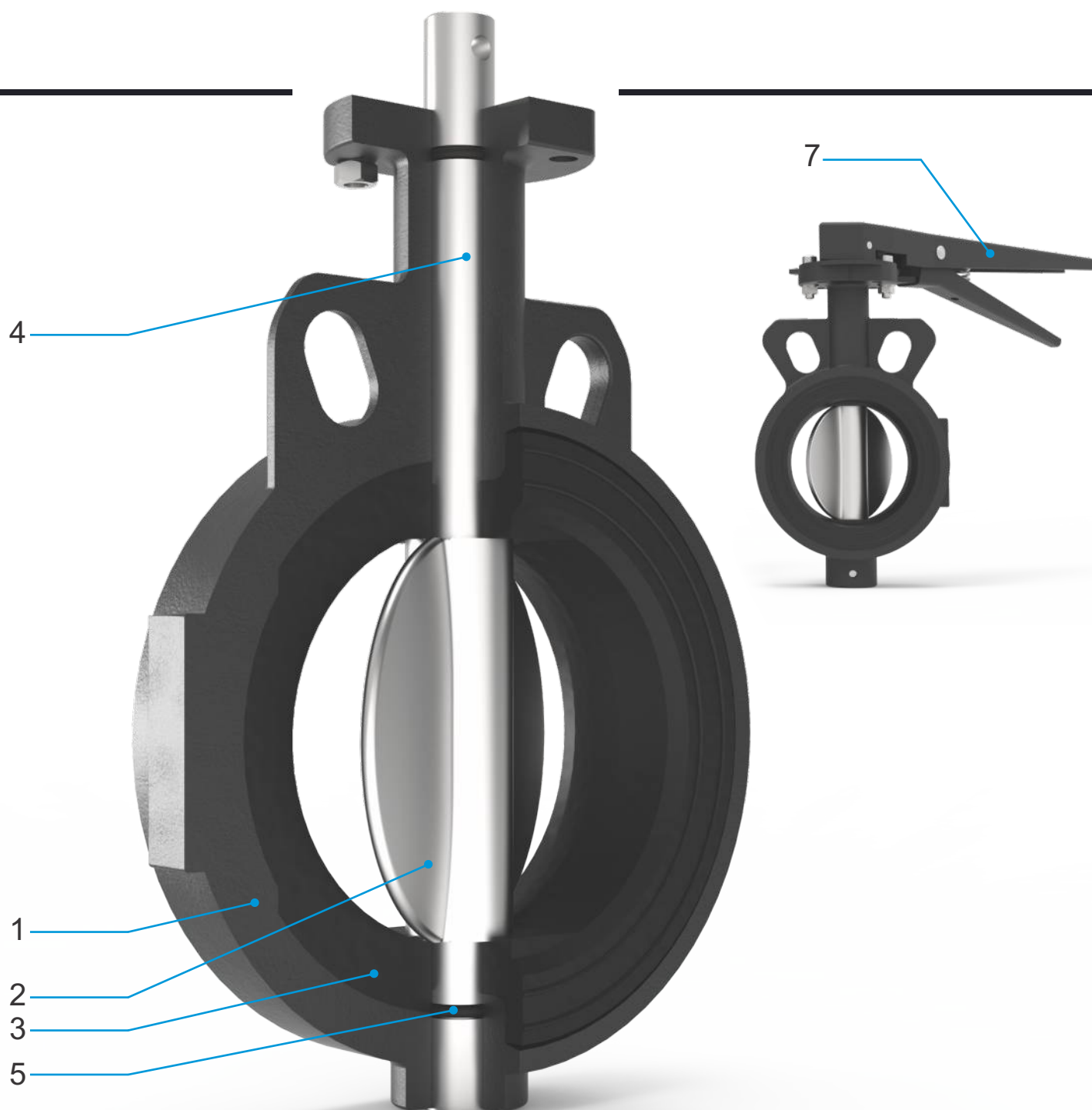


13. The hand lever is lockable in order to lock the position of disc in various open or close positions.

14. CED Coating provides better corrosion resistance & long lasting life.

* We offer Powder Coating as per customer requirements at an additional cost.

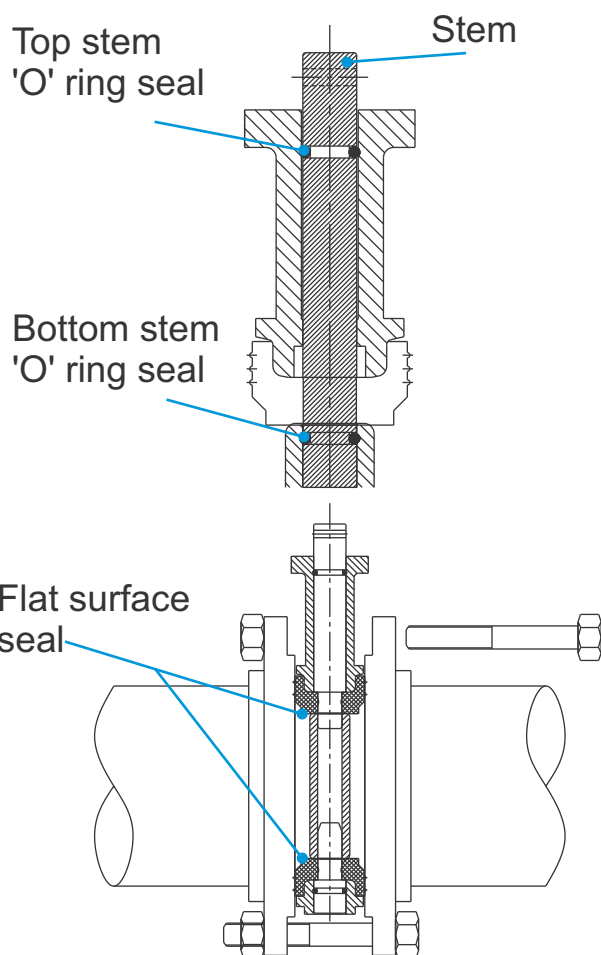




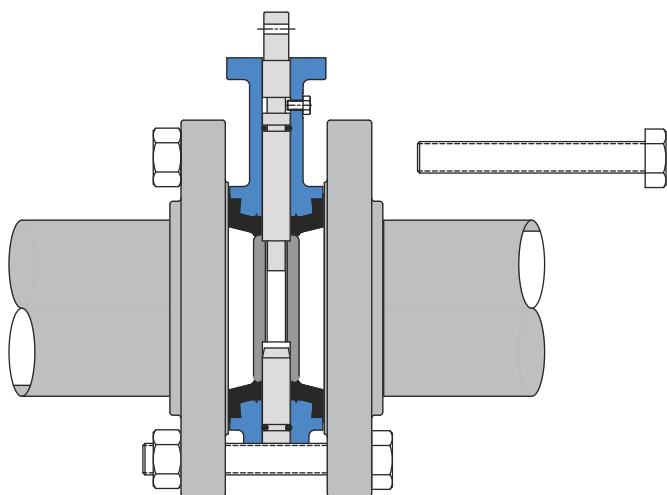
Material of Construction

No.	Description	Standard Material
1	Body	Cast Iron, Ductile Iron
2	Disc*	Ductile Iron, CF8, CF8M, Al Bronze
3	Seat (Liner)	EPDM, NBR, Silicon, Viton
4	Stem	SS410, SS304, SS316
5	'O'-Ring	NBR
6	Flow Control Plate	MS - CED Coated
7	Lever	MS - CED Coated

* DN 40 available only in Ductile Iron & Al Bronze.



TRIPLE STEM SEALING



Integrally Moulded / Loose Liner



Applications

- ON / OFF Isolation
- Dead end service / Removal of down stream piping
- Industrial Process and HVAC
- Municipal Raw Water Intake
- Better to use Potable water system, instead chlorinated
- Full Vacuum
- Aerations & Blower applications

Standards

Design	EN 593 / ISO 5752 / IS 13095
Top Flange	ISO 5211
Testing	ISO 5208 / API 598 / EN 12266

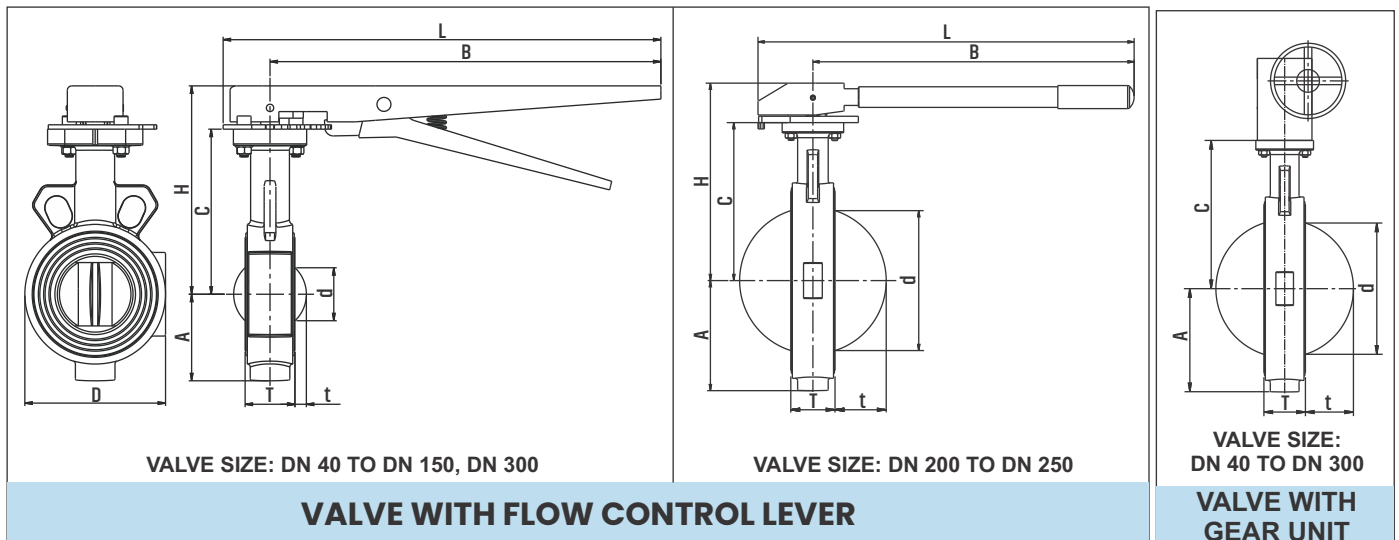
Torque* [Nm]

mm	inch	PN10	PN16
DN40	1½	10	14
DN 50	2	12	16
DN 65	2½	14	18
DN 80	3	18	22
DN 100	4	22	26
DN 125	5	32	36
DN 150	6	48	56
DN 200	8	90	98
DN 250	10	150	160
DN 300	12	168	180

Pressure Rating – bar (psi)

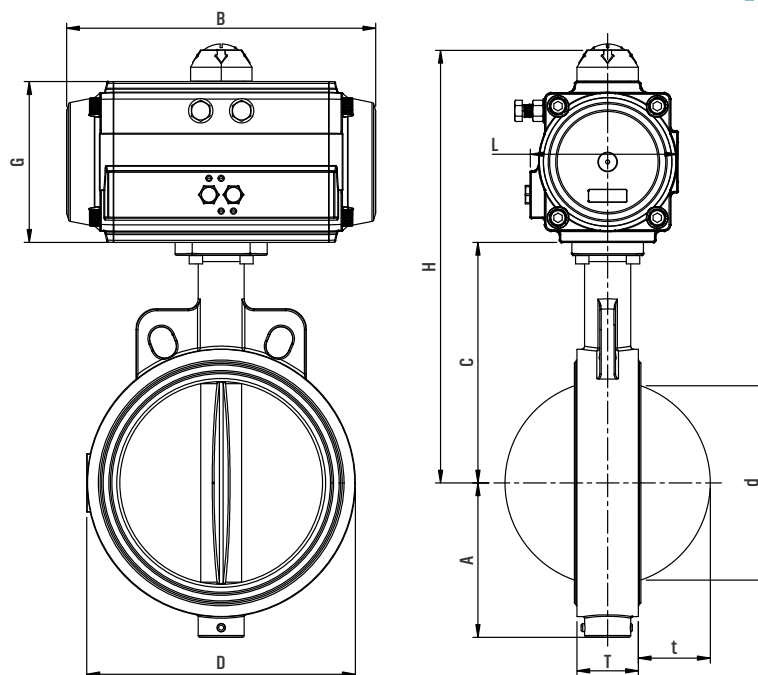
	PN10	PN16
Hydrostatic Shell Test	15 bar (218 psi)	24 bar (350 psi)
Seat Test	11 bar (160 psi)	17.6 bar (256 psi)
Maximum Working Pressure	10 bar (145 psi)	16 bar (230 psi)

Dimensions (Butterfly Valve – Lever / Gear Operated)



Valve Size		Dimensions [mm]									Flange Mounting (ISO 5211)
mm	inch	T	C	A	D	d	t	Flow Control Lever			
								B	L	H	
DN40	1½	35	103	55	78	36	3	268	300	134	F05
DN 50	2	45	113	65	95	44	3	268	300	138	F05
DN 65	2½	48	118	70	105	60	9	268	300	147	F05
DN 80	3	48	127	79	123	74	16	268	300	156	F05
DN 100	4	54	150	96	157	96	24	268	300	179	F05
DN 125	5	58	165	107	179	120	34	268	300	194	F05 / F07
DN 150	6	58	185	125	211	144	46	268	300	215	F05 / F07
DN 200	8	61	235	150	261	198	70	397	463	290	F07
DN 250	10	74	260	185	322	248	90	515	608	325	F10
DN 300	12	85	285	204	369	300	111	508	610	345	F10

Dimensions PN10 (Butterfly Valve – Pneumatic Actuator)



Valve Size		Dimensions [mm]									
mm	inch	T	C	A	D	d	t	B	L	G	H
DN40	1½	33	102.5	55	78	37	7	151	69	73	195.5
DN 50	2	44	112.5	63.5	95	45	3	174	83	89	221.5
DN 65	2½	47	117.5	70.5	105	59	8.5	174	83	89	226.5
DN 80	3	47	126.5	79.5	123	74.5	15.5	208	101	110	256.5
DN 100	4	53	149	96	144.5	97	23.5	245	111	118	287
DN 125	5	57	164.5	107.5	171	120.5	33	245	111	118	302.5
DN 150	6	57	185	125	210.5	144.5	46	274	124	134	349
DN 200	8	60	235	150.5	261	196.5	70	302	145	157	422
DN 250	10	71	260.5	181	322	248	91	393	158	175	465.5
DN 300	12	81	285	204.5	369	301	112.5	442	182	196	511

Note :

We also provide Butterfly Valves with Pneumatic actuator as well as Electric Actuator for automation purposes.

Pneumatic Actuators are available with

- 1.) Solenoid valve,
- 2.) Limit switch
- 3.) Air filter regulators.



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Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.



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