

LBV10 SERIES

Butterfly Valves



INTRODUCTION

The Lubi **LBV** series butterfly valves are designed and manufactured for general utility water valve and HVAC applications.

The replaceable elastomer body liner offers bi-directional sealing for pressure up to 10 bar. The wafer design of this valve will fit in between pipe flanges of almost all flange standards.

APPLICATIONS

The main applications of this valve is for general utility water applications as well as HVAC applications.

The typical applications areas are as follow:

- On/off isolation
- Dead-end service/removal of down stream piping
- Industrial process water piping
- Municipal raw water intake
- Municipal chlorinated water systems
- Full vacuum
- Aeration and blower applications.

FEATURES AND BENEFITS

● LONGER VALVE LIFE

The body liner provides a stable seat, which overcomes the tendency of the disc to push the seat out of position. Plasticiser in the elastomer formulation ensures a smooth surface which minimizes the friction between disc and liner. The stable, tough seat, and low operating friction all contribute to extend valve life.

● TIGHT SEALING AND LOW TORQUE

The close interference fit between disc and liner ensures tight sealing at the full rated pressure, with minimal operating effort. The state-of-the-art design of this valve prevents liner fatigue caused by stretching. This reduces operating torque and the tendency for liners to tear and be swept into the line.

● TRIPLE STEM SEALING

The body liner has a flat surface at the top and bottom. This flat surface provides a wider seating between the body liner and disc. The secondary sealing is achieved through a replaceable body liner 'O' ring which gets compressed around the shaft. A 'O' ring at the top of the shaft prevents any ingress of foreign particles into the valve.

● STREAMLINED FLOW

A contoured disc ensures a smooth flow with minimum resistance. The improved flow coefficient (Cv) of the valve enables enhanced regulation characteristics.

FEATURES AND BENEFITS (CONT...)

● UNIVERSAL ACTUATOR MOUNTING

LBV10 has an integral top mounting flange drilled to ISO 5211 mounting standards which facilitates direct mounting of actuators and gear units. This eliminates the need for a coupling to connect the shaft to the actuator - improving torque transmission.

● EASY INSTALLATION

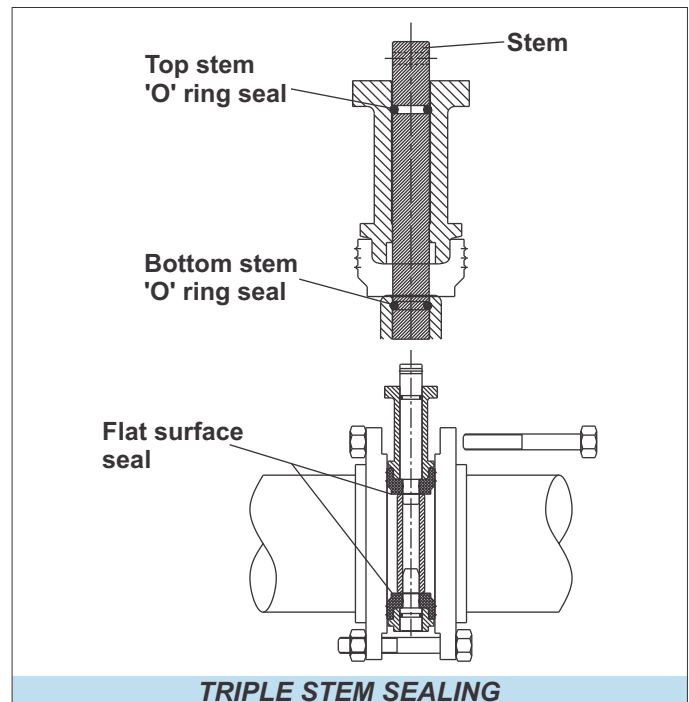
LBV10 has a gasket to the body which eliminates the need for a separate gasket between the valve face and companion flange. It will not hang out or get pinched during installation.

● VERSATILE HAND LEVER

The ergonomically designed hand lever has been designed to ensure locking of the valve in open, shut and intermediate positions. The hand lever can also be pad locked in open or shut off positions to prevent tampering.

● SUPERIOR MATERIALS

The body casting are grade FG-260 cast iron for higher strength to prevent cracking during operation. The valve disc is made of ductile iron withstand damage due to water hammer or sudden surge in pressure.



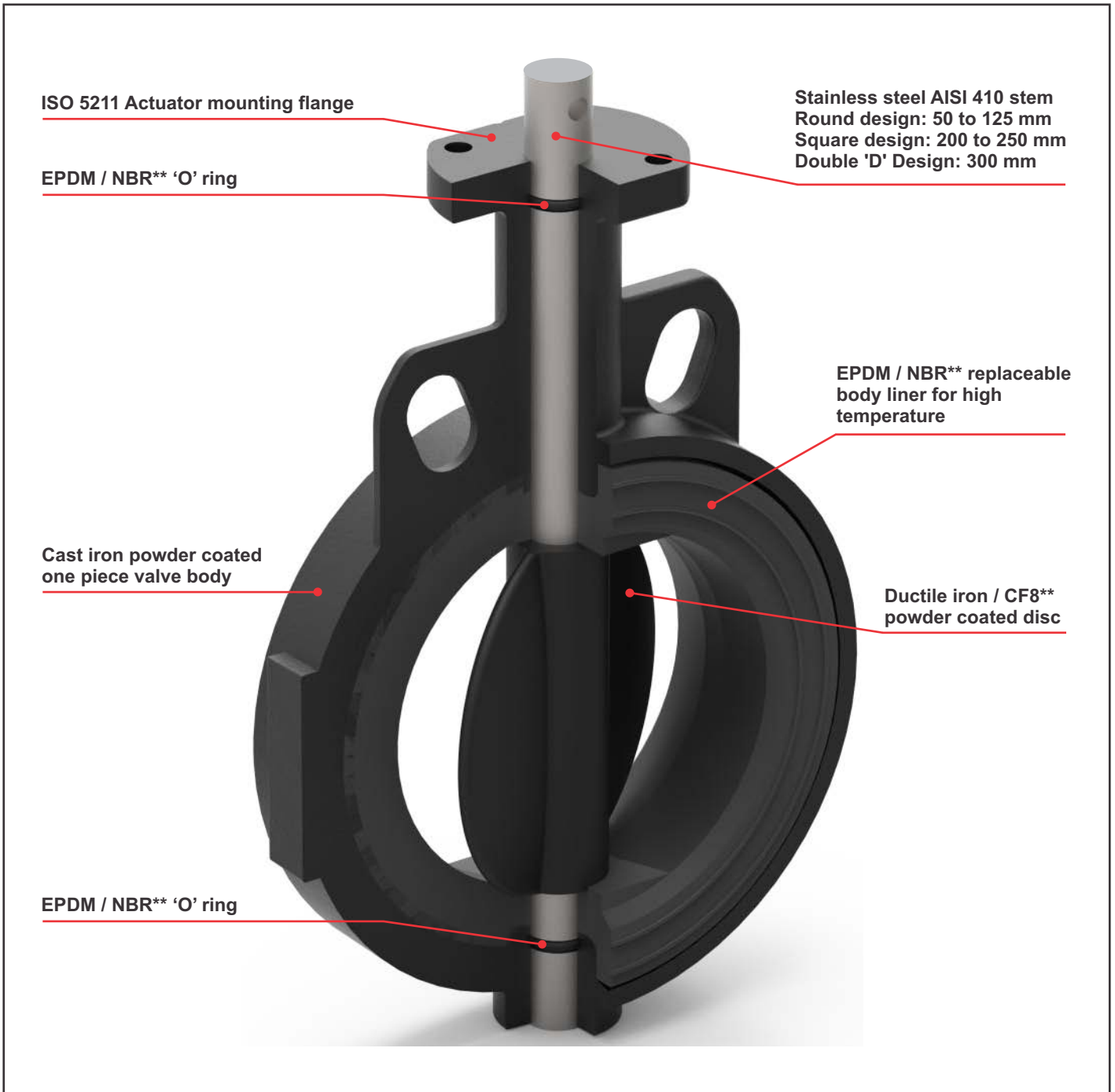
TYPE KEYS

LBV10	50	W	F	E	A	S
Type range	Valve size (mm)	Valve body type	Operation	Body liner & 'O' ring	Disc material	Stem material
LBV10 = PN10 rating Butterfly valve	50 = 50 mm 65 = 65 mm 80 = 80 mm 100 = 100 mm 125 = 125 mm 150 = 150 mm 200 = 200 mm 250 = 250 mm 300 = 300 mm	W = Wafer type flange less	F = Flow control lever G = Gear unit B = Bare shaft	E = EPDM* N = NBR	A = Ductile iron with powder coating* B = CF8	S = Stainless steel AISI 410

Note: * Standard construction.

Above example shows the LBV10, 50 mm Wafer type flange less, flow control lever operated butterfly valve, with EPDM body liner & 'O' rings, Ductile iron with powder coating disc and stainless steel AISI 410 stem.

DESIGN FEATURES



MATERIAL OF CONSTRUCTION

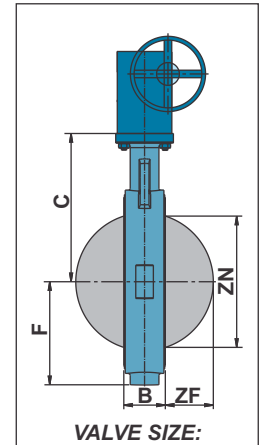
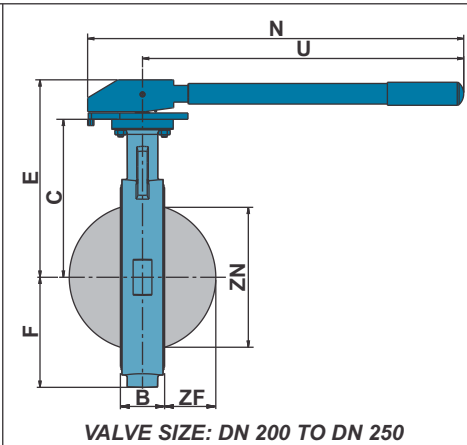
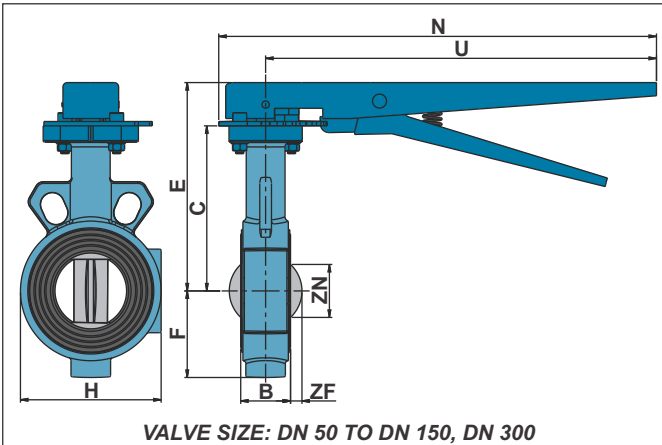
COMPONENT	MATERIAL
Valve body	Cast iron to BS 1452 Gr. 260 with powder coating
Body liner & 'O' rings	EPDM / NBR**
Disc	Ductile iron with powder coating / CF8**
Stem	Stainless steel AISI 410
Flow control lever***	Steel / Ductile iron

Note: For other materials required for valve body and disc, please contact to Lubi.

** Available on request.

*** Steel with powder coating up to 150 mm, Ductile iron & steel with powder coating from 200 to 250 mm, Ductile iron with powder coating for 300 mm.

TECHNICAL DATA



VALVE WITH FLOW CONTROL LEVER

VALVE WITH GEAR UNIT

VALVE SIZE		DIMENSIONS [mm]									FLANGE MOUNTING (ISO 5211)	TORQUE* [Nm]	GROSS WEIGHT [kg]		GROSS VOLUME [m ³]	
mm	inch	B	C	F	H	ZN	ZF	FLOW CONTROL LEVER					FLOW CONTROL LEVER	GEAR UNIT	FLOW CONTROL LEVER	GEAR UNIT
								U	N	E						
50	2	43	113	65	95	44	3	268	300	142	F05	7	2.8	4.6	0.0070	0.0209
65	2½	46	118	70	105	60	9	268	300	147	F05	11	2.9	4.8	0.0074	0.0209
80	3	46	127	79	123	74	16	268	300	156	F05	15	3.3	5.2	0.0083	0.0229
100	4	52	150	96	157	96	24	268	300	179	F05	23	5.3	7.2	0.0099	0.0268
125	5	56	165	107	179	120	34	268	300	194	F05	34	6.6	8.4	0.0112	0.0297
150	6	56	185	125	211	144	46	268	300	215	F05	52	8.8	10.7	0.0135	0.0342
200	8	60	235	150	261	198	70	392	457	290	F05	102	14.9	17.9	0.0367	0.0425
250	10	68	260	181	322	248	92	505	595	325	F07	156	26.5	33.2	0.0712	0.0788
300	12	78	285	204	369	300	113	508	610	345	F07	178	34.9	38.9	0.1019	0.0895

Note: * A safety factor of 25% should be added to these figures, while sizing for an actuator.

TEMPERATURE & PRESSURE

LINER MATERIAL	MAXIMUM TEMPERATURE [°C]	WORKING PRESSURE [bar]	TEST PRESSURE [bar]	
			BODY	SEAT
EPDM	110	10	15	11
NBR**	80	10	15	11

Note: ** NBR liner is available on request.

STANDARDS

VALVE DESIGN	BS 5155 - Specifications for Butterfly valves API 609 - Lug and Wafer type butterfly valves MSS SP 67 - Butterfly valves ISO 5752 - Metal valves for use in flanged pipe systems. Face to face and center to face dimensions.
PIPE FLANGE	BS 10 table D & E ANSI 125/150 DIN ND 10/16 BS 4504 PN 10/16 JIS 5K/10K IS 6418 tables 6 to 9 or IS 6392 tables 10 to 20
TOP FLANGE	ISO 5211 Part II
PRESSURE TESTING	BS 6755 Part I

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

02.00.270817.0124



ISO 9001

ISO 14001

Customer Care Number : 9824200800