



Resilient Seated Butterfly Valves

Performance Series

Available in Wafer and Lug Styles

Butterfly Valves Designed for Automation & Demanding Manual Applications

Models:

Wafer 51

Lug 52

Size Range

2" thru 36"

Pressure Rating

200 WOG

250 WOG - optional



Rugged, Heavy Duty
Ductile Iron Body
High Quality Epoxy Coating for
Excellent Corrosion Resistance
2-Piece Stem Design Allows for
Easy Assembly and Maintenance

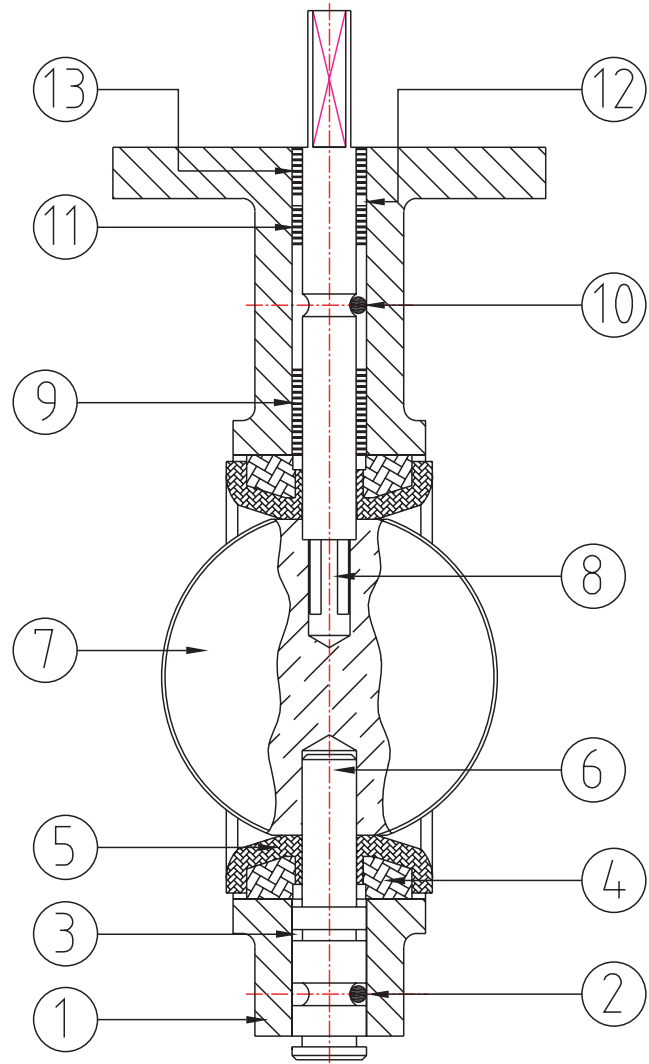
As a part of the Flo-Tite Group, Max-Seal Concentric Butterfly Valves are backed by the resources and experience of over thirty five years of process valve and automation experience.

www.maxsealinc.com

Butterfly Valve - Components / Design Features

STANDARD PARTS LIST Size 2"-12"

NO	Part	Q'ty	Material	Code
1	Valve Body	1	Cast Iron Ductile Iron Stainless Steel	CI DI SS
2	Pin	1	Carbon Steel	
3	O-Ring	1	Buna-N	B
4	Seat Back up	1	Phonolic	~
5	Seat	1	EPDM Buna-N - Food Grade PTFE Viton	E B T
6	Lower Shaft	1	Stainless 410 Stainless 316	S0 SS
7	Disc	1	Ductile Iron (Nylon coated) A536 Stainless 316 CF8M Stainless 304 CF8	D SS S4
8	Upper Shaft	1	Stainless 410 Stainless 316	S0 SS
9	Bushing	1	PTFE	T
10	Pin	1	Carbon Steel	~
11	Bushing	1	PTFE	T
12	O-Ring	1	Buna-N	B
13	Bushing	1	PTFE	T



One piece body with extended neck allows clearance for flanges and up to 2 1/2 inch of insulation

Primary stem seals are formed by preloaded contact between the disc and seat. A secondary seal is effected by having a stem diameter greater than the stem hole in resilient seat. These seals provide a non-wetted body and stem, eliminating the need for corrosion resistant body material.

Field replaceable, phenolic bonded cartridge is blowout proof, stretch resistant and non-collapsible, making it an ideal seat design for high velocity or vacuum service. Our resilient seat design eliminates the need for flange gaskets.

- High strength, square drive (2"-12") ensures a positive shaft to disc connection.
- Disc floats inside the seat for positive sealing and extended seat life.
- No pins or bolts exposed to flow
- Offset shaft retainers mechanically retain the shaft in the body ensuring a blow out proof design.

MAX SEAL PERFORMANCE SERIES BUTTERFLY VALVE MODEL NUMBER CODES

Model	Body Material		Disc Material		Stem Material		Seat Material		Stem Seal		Operator	
Wafer-51	Cast Iron	CI	Nylon Coated Ductile Iron	D	Stainless 416	S6	EPDM	E	EPDM	E	Lever	L
	Ductile Iron	DI	Stainless 316	SS	Stainless 316	SS	BUNA	B	BUNA	B	Gear	G
Lug-52	Stainless Steel	SS	Stainless 304	S4			VITON	V	VITON	V	Bare stem	N
							TEFLON	T				

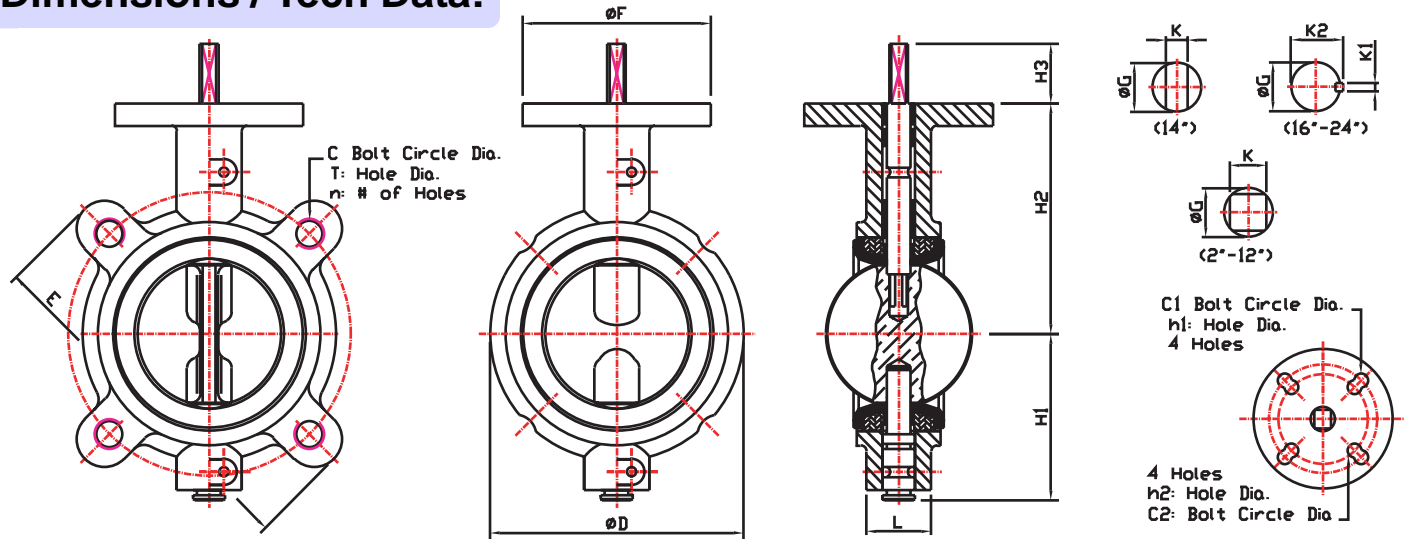
ORERING EXAMPLE BY PART NUMBER

Wafer	Cast Iron	Stainless 316	Stainless 316	TEFLON	TEFLON	Lever
Model	Body	Disc	Stem	Seat	Stem Seal	Operator
51	- CI	- SS	- SS	- T	- T	- L

Performance / Design

Accurate and smooth machined profile of disc edge requires minimal deformation of the resilient rubber liner to achieve a positive seal. The low deformation results in low torque, less wear of the seat liner and increased operational life.

Dimensions / Tech Data:



ANSI Class 125 Concentric Butterfly Valves

Size		D	E	L	H1	H2	H3	F	G	K	Flange Dimension			Mounting Base					Weight, lb	
inch	mm										C	T	n	C1	h1	C2	h2	ISO	wafer	lug
2	50	4.125	6.00	1.656	3.00	3.94	1.25	4.0	0.50	0.354	4.75	5/8-11unc	4	3.25	0.41	2.76	0.39	F07	5.19	10.5
2.5	65	4.875	7.00	1.75	3.34	4.59	1.25	4.0	0.50	0.354	5.50	5/8-11unc	4	3.25	0.41	2.76	0.39	F07	5.84	10.5
3	80	5.375	7.50	1.78	3.66	4.91	1.25	4.0	0.50	0.354	6.00	5/8-11unc	4	3.25	0.41	2.76	0.39	F07	6.16	10.5
4	100	6.875	9.00	2.05	4.28	6.00	1.25	4.0	0.625	0.433	7.50	5/8-11unc	8	3.25	0.41	2.76	0.39	F07	7.25	10.5
5	125	7.75	10.0	1.13	4.84	6.13	1.25	4.0	0.75	0.55	8.50	3/4-10unc	8	3.25	0.41	2.76	0.39	F07	7.38	10.5
6	150	8.75	11.0	2.19	5.34	6.69	1.25	4.0	0.75	0.55	9.50	3/4-10unc	8	3.25	0.41	2.76	0.39	F07	7.94	10.5
8	200	11.00	13.5	2.38	6.53	9.44	1.75	6.0	0.875	0.67	11.75	3/4-10unc	8	5.00	0.53	4.01	0.47	F10	11.2	14
10	250	13.38	16.0	2.58	7.84	11.22	1.75	6.0	1.125	0.87	14.25	7/8-9unc	12	5.00	0.53	4.01	0.47	F10	13.0	14
12	300	16.13	19.0	3.03	9.38	11.81	1.75	6.0	1.25	0.87	17.00	7/8-9unc	12	5.00	0.53	4.01	0.47	F10	13.6	20
14	350	17.16	20.63	3.07	10.5	14.49	1.77	6.0	1.24	0.95	18.75	1-8unc	12	5.00	0.53	4.01	0.47	F10	41.3	56
16	400	19.21	23.18	4.02	12.16	15.75	2.83	7.76	1.49	0.39x1.42	21.25	1-8unc	16			5.51	0.71	F14	61	96
18	450	21.22	25.00	4.49	12.91	16.61	2.83	7.76	1.69	0.39x1.61	22.75	1 1/8-8unc	16			5.51	0.71	F14	79	122
20	500	23.35	27.72	5.00	14.21	18.9	2.83	7.76	1.80	0.47x1.74	25.00	1 1/8-8unc	20			5.51	0.71	F14	128	202
24	600	32.44	32.68	6.06	18.07	22.12	3.23	10.87	2.13	0.63x2.15	29.50	1 1/4-8unc	20			6.50	0.87	F16	188	270

- Larger sizes available through 120", consult factory
- Pressure Ratings:
2"-12" 200 psi; 14"-24" 175 psi
- Lug Body for Dead End Service:
2"-12", 150 psi; 14"-24" 125 psi
- Optional 250 WOG
with 17-4Ph stem & seat modification
- Vacuum Service up to 28" Hg
- Max Seal valves are designed for bubble tight shutoff in either direction of flow. Each valve is factory tested to 110% of their pressure rating.
- Blow out proof design stem
- A heavy duty butterfly valve, designed for ANSI Class 125/150 flanges. These valves comply with MSS-SP25, MSS-SP67 and API609 specifications, as well as meeting the requirements of MIL-V-22133C (ship) Type 1, Class A-D
- Positive Valve Position: When the disc is perpendicular to the pipe, the valve is shut. When the disc is parallel to the pipe, the valve is fully open. The orientation of the disc is indicated by a groove at the shaft end that is in line with the disc.

Max-Seal performance series offers longer service life, greater reliability, ease of parts replacement and interchangeability of components.

