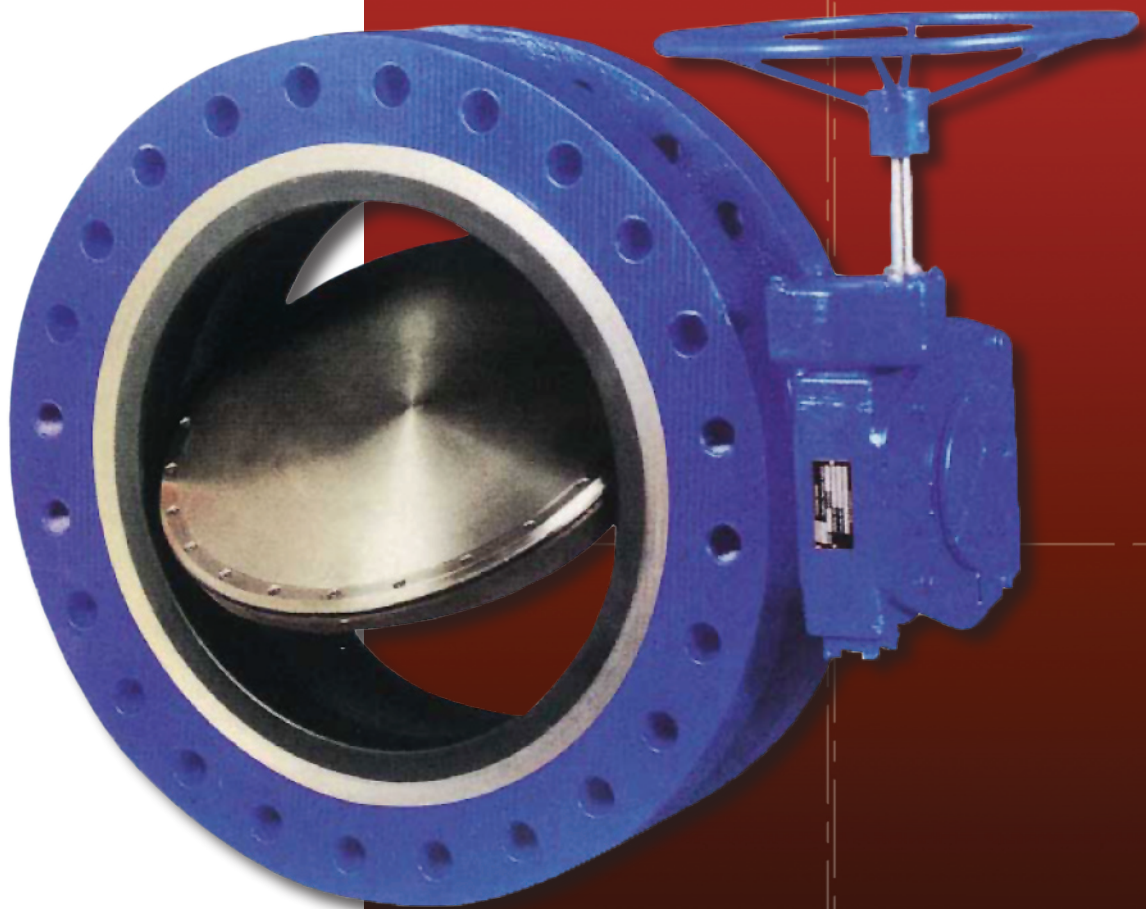
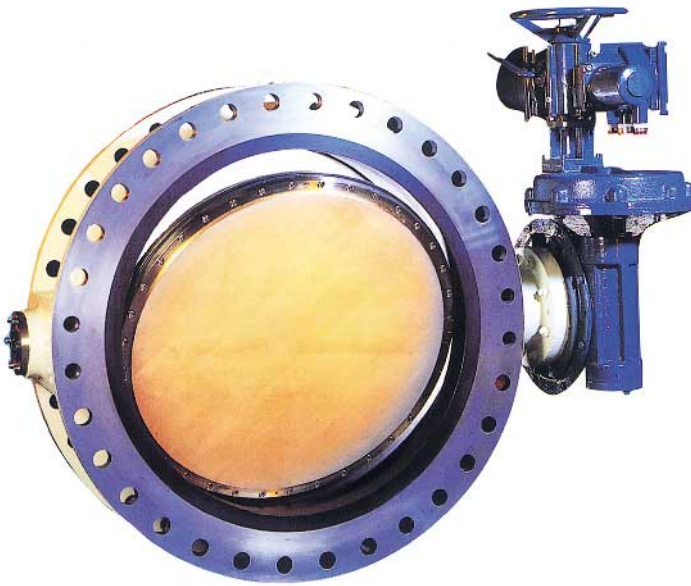


Solent & Pratt E-Series

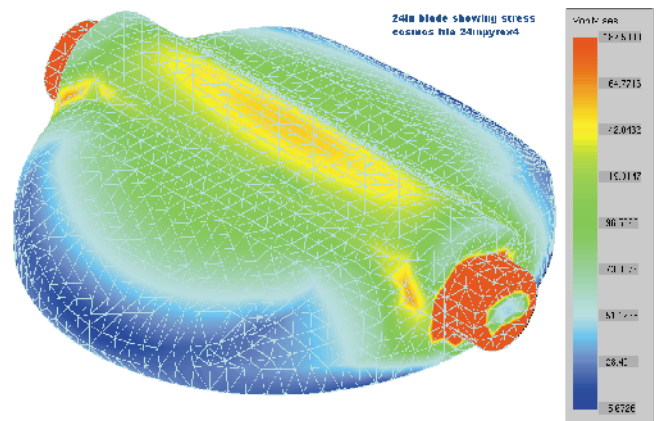


3" (80mm) to 84" (2100mm)

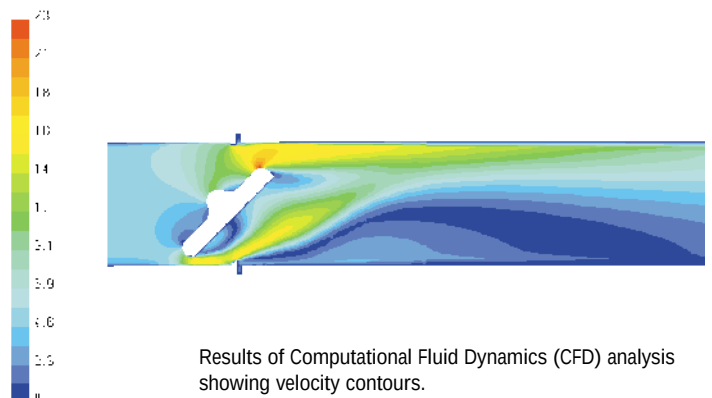


- Quality Assurance certified by Lloyds to ISO 9001
- Tight shut off in both directions to API 598.
- Field replaceable resilient disc seal.
- ANSI 125lb, 150lb rating. Higher pressure ratings on request.
- Single or double offset valve geometry available.
- Low seating and unseating torque's.
- Body designs: double flanged, wafer lugged and wafer flangeless.
- Flanges to suit any British, American or continental flange standards including ANSI, API, MSS, BS, PN and ISO.
- Actuation via manual gearbox, pneumatic, electric or hydraulic actuators.
- External anti-blowout device to API 609 optional.

For over 40 years Solent & Pratt has been at the forefront of the design, development and manufacture of high quality butterfly valves for engineering projects around the world. An absolute commitment to outstanding quality and reliability is the key of our success, particularly in environments such as the oil and gas, chemical, petro-chemical and power generation industries.



24" (600mm) Disc showing the results of a finite element stress analysis carried out by Solent & Pratt's Design Department



Results of Computational Fluid Dynamics (CFD) analysis showing velocity contours.

Applications

Ebonite valves may be utilised for both isolation or flow control applications. Over the last 40 years, these products have proven their reliability in sea water cooling systems, offshore and onshore fire mains systems, portable water in desalination plants, and many applications where iron contamination of fluid is undesirable.

Ebonite lined valves have also proven reliable on low level slurry applications and flows where fine particles may be present. For applications with a higher density of particles a shaft/bearing seal may be provided as an option.

Design

The Ebonite lining used in these products protects the valve material from the line fluid, thus permitting the use of less expensive ferrous metals as opposed to the more costly options such as bronze, stainless steel, monel etc.

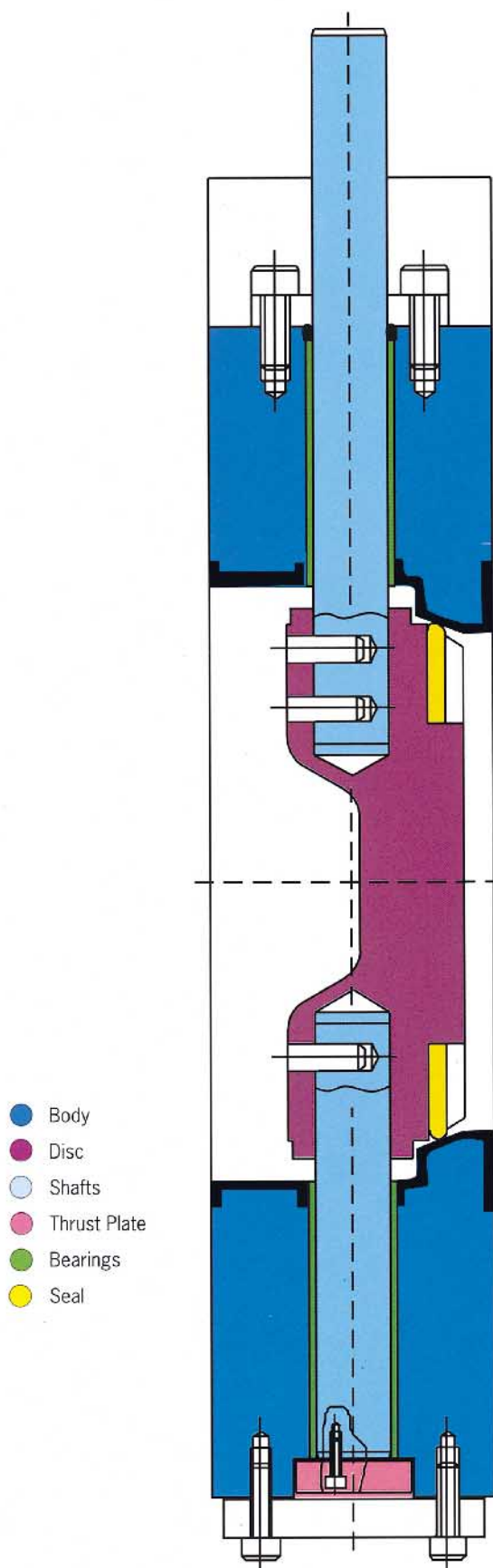
The superiority of the Solent & Pratt valve is that Ebonite is a hard natural rubber which is bonded to the internal surfaces of the valve and steam cured in an autoclave to ensure maximum strength and adhesion.

The seating area of the lining, against which the replaceable, resilient disc seal locates is fully machined after insertion into the valve body. This ensures consistent "tight shut off" without excessive wear to the seal.

The unique feature with this design of rubber lining is that the Ebonite is part of the structural rigidity of the body. The resilient seal located on the the disc is the component that is compressed during valve closure. This eliminates both dragging on the liner, and creep, which is associated with lined valves where sealing is obtained by a solid disc compressing the body liner. Valve life is considerably increased with this design.

Operators

Valves can be supplied with manual, electric, pneumatic or hydraulic operator. Fail-safe systems for emergency operation are also available.



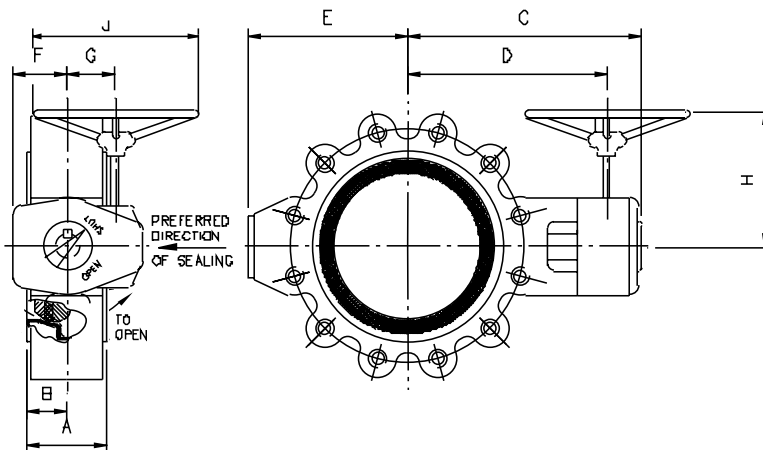
Dimensions

Solent & Pratt

Typical materials of construction

Body:	Carbon steel/Cast iron/S.G.Iron
Lining:	Ebonite hard natural rubber
Disc:	Bronze/Stainless Steel/Duplex/Monel
Shafts:	Stainless steel/Monel
Disc/Gland seal:	Nitrile

For other material requirements and combinations consult our sales office.



Class 150# range (dimensions in mm)

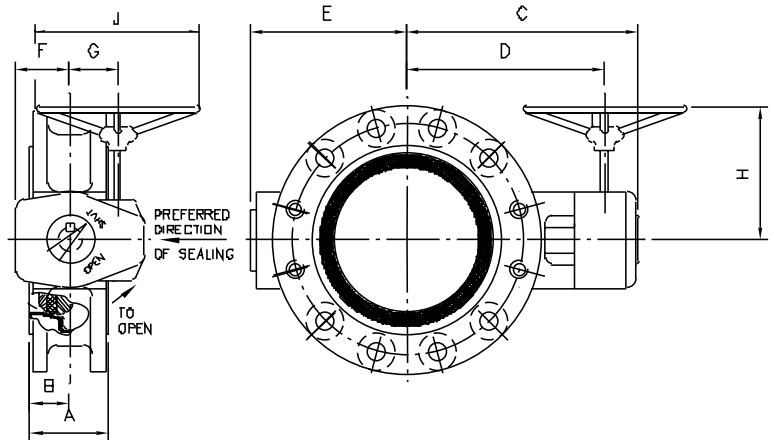
Wafer Lugged

Valve size Inches mm	Mastergear type Operator	A	B	C	D	E	F	G	H	J	Kg.	Lbs.
3 80	M10/SR8	48	31	229	197	165	114	52	254	203	16	33
4 100	M10/SR8	54	29	289	257	225	166	52	254	203	19.5	43
6 150	M10/SR8	57	35	289	257	225	166	52	254	203	26	58
8 200	M10/SR8	64	39	319	287	255	200	52	254	203	40	88
10 250	M12/SR12	71	43	370	331	292	235	67	295	305	79	174
12 300	M14/SR12	81	51	449	394	350	274	90	315	305	100	220
14 350	M14/R18	92	56	474	419	375	319	90	354	457	152	335
16 400	M15/R18	102	60	531	476	420	338	123	406	457	211	465
18 450	M15/R24	114	68	581	506	450	373	123	441	610	298	656
20 500	M16/R24	127	74	644	567	490	414	154	466	610	353	777
24 600	MFF36/S5/R24	154	82.5	740	665	580	477	68	497	610	530	1166
26 650	MFF36/S5/R24	229	114.5	740	655	568	485	68	497	610	555	1221
28 700	MJF50/S5/R24	229	114.5	790	704	609	515	97	505	762	643	1415
30 750	MJF50/D9/R24	229	114.5	1014	824	634	597	181	590	610	740	1628
32 800	MJF50/D9/R24	229	114.5	1085	895	705	636	181	590	610	798	1756
34 850	MLF60/D12/R18	241	120.5	1125	935	745	610	237	523	457	1020	2244
36 900	MLF60/D12/R18	241	120.5	1140	950	840	635	237	523	457	1105	2431
38 950	MLF60/D12/R18	300	150	1180	990	870	670	237	580	457	1257	2805
40 1000	MLF60/D12/R18	300	150	1205	1015	895	695	237	580	457	1420	3124
42 1050	MLF60/D12/R18	300	150	1235	1045	925	725	237	580	457	1520	3344
44 1100	MLF60/D12/R18	300	150	1260	1070	950	750	237	580	457	1675	3685
46 1150	MLF60/D12/R18	350	175	1290	1100	980	780	237	580	457	1850	4070
48 1200	MPF50/D12/S3/R30	350	175	1348	1158	1038	815	292	791	752	2075	4565
50 1250	MPF50/D12/S3/R30	350	175	1378	1188	1068	845	292	791	752	2340	5148
52 1300	MTF50/DB6/D9/R24	350	175	1808	1313	1123	865	356	1024	610	2520	5544
54 1350	MTF50/DB6/D9/R24	390	195	1743	1448	1158	900	356	1024	610	2920	6424
56 1400	MTF50/DB6/D9/R24	390	195	1778	1483	1193	935	356	1024	610	3250	7150
58 1450	MTF50/DB6/D9/R24	390	195	1808	1513	1223	965	356	1024	610	3440	7568
60 1500	MTF50/DB6/D9/R24	440	220	1853	1558	1268	990	356	1024	610	3695	8129
64 1600	MB3/DB9/D9/R30	440	220	1928	1633	1343	1035	356	1062	752	4690	10318
72 1800	MB3/DB9/D9/R30	490	245	2033	1738	1448	1170	356	1065	752	5480	12056
80 2000	MB3/DB9/D9/R30	540	270	2128	1833	1543	1245	356	1062	752	7525	16555
84 2100	MB3/DB9/D9/R30	540	270	2223	1928	1638	1340	356	1062	752	10140	22308

Typical materials of construction

Body:	Carbon steel/Cast iron/S.G.Iron
Lining:	Ebonite hard natural rubber
Disc:	Bronze/Stainless Steel/Duplex/Monel
Shafts:	Stainless steel/Monel
Disc/Gland seal:	Nitrile

For other material requirements and combinations consult our sales office.



Class 150# range (dimensions in mm)

Double Flanged

Valve size Inches mm	Mastergear type Operator	A	B	C	D	E	F	G	H	J	Kg.	Lbs.
3 80	M1/SR8	114	57	229	197	165	114	52	254	203	27	60
4 100	M10/SR8	127	63.5	249	217	185	136	52	254	203	37	82
6 150	M10/SR8	140	70	289	257	225	166	52	254	203	47	104
8 200	M10/SR8	152	76	319	287	255	200	52	254	203	63	139
10 250	M12/SR12	165	82.5	370	331	292	235	67	295	305	85	187
12 300	M14/SR12	178	89	449	394	350	274	90	315	305	124	273
14 350	M14/R18	190	95	474	419	375	319	90	354	457	163	359
16 400	M15/R18	216	108	531	475	420	338	123	406	457	190	418
18 450	M15/R24	222	111	561	506	450	373	123	441	610	229	504
20 500	M16/R24	229	114.5	644	567	490	414	154	456	610	295	649
24 600	MFF36/S5/R24	267	133.5	740	655	580	477	138	497	610	474	1043
26 650	MFF36/S5/R24	292	146	740	655	568	485	68	497	610	595	1309
28 700	MJF50/S5/R24	292	146	790	704	609	515	97	505	762	714	1571
30 750	MJF50/D9/R24	318	159	1014	824	634	597	181	590	610	826	1818
32 800	MJF50/D9/R24	318	159	1085	895	705	636	181	590	610	888	1954
34 850	MLF60/D12/R18	330	165	1125	935	745	610	237	523	457	1135	2497
36 900	MLF60/D12/R18	330	165	1140	950	840	635	237	523	457	1229	2704
38 950	MLF60/D12/R18	410	205	1180	990	870	670	237	580	457	1417	3118
40 1000	MLF60/D12/R18	410	205	1205	1015	895	695	237	580	457	1581	3479
42 1050	MLF60/D12/R18	410	205	1235	1045	925	725	237	580	457	1690	3718
44 1100	MLF60/D12/R18	410	205	1250	1070	950	750	237	580	457	1865	4103
46 1150	MLF60/D12/R18	470	235	1290	1100	980	780	237	580	457	2060	4532
48 1200	MPF50/D12/S3/R30	470	235	1348	1158	1038	815	292	791	752	2310	5082
50 1250	MPF50/D12/S3/R30	470	235	1378	1188	1068	845	292	791	752	2601	5723
52 1300	MTF50/DB6/D9/R24	530	265	1508	1313	1123	865	356	1024	610	2860	6292
54 1350	MTF50/DB6/D9/R24	530	265	1743	1448	1158	900	356	1024	610	3240	7128
56 1400	MTF50/DB6/D9/R24	530	265	1778	1483	1193	935	356	1024	610	3610	7942
58 1450	MTF50/DB6/D9/R24	600	300	1808	1513	1225	965	356	1024	610	3825	8415
60 1500	MTF50/DB6/D9/R24	600	300	1853	1558	1268	990	356	1024	610	4110	9042
64 1600	MB3/DB9/D9/R30	600	300	1928	1633	1343	1035	356	1062	752	5225	11465
72 1800	MB3/DB9/D9/R30	670	335	2033	1738	1448	1170	356	1062	752	6095	13409
80 2000	MB3/DB9/D9/R30	760	380	2128	1833	1543	1245	356	1062	752	8360	18392
84 2100	MB3/DB9/D9/R30	760	380	223	1928	1638	1340	356	1062	752	11270	24794



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