

# EM800 SERIES

Double eccentric high performance  
Butterfly valve



EM 800 Series 2" - 36" (DN50~DN900)

Class 150 Class 300 Class 600

Wafer, Lug, Double Flange

Handle / Gear/Pneumatic / Electric

## Manufacturing standards and design features

### Pull-down gland packing:

The actuator can be installed directly for user adjustment. The gland flange and packing gland with rocker arm design ensure 360 degree packing adjustment.

### Anti blow-out stem design:

The anti-spray valve stem system is designed following API 609 standard and is located above the stuffing box.

### Valve body :

High quality integral casting provides consistency. The valve body has a wafer and a lug type, and the valve body material includes WCB, CF8M, Duplex 2205, Monel, etc.

### Disc :

The standard construction is available in CF8M stainless steel alloy. The EM800 Series disc design quickly releases from the seat to reduce torque and seat wear.

### Seat Retainer Plate

This rugged, multi-bolt seat retainer is made of the same material as the body and contains and supports bi-directional flow and bi-directional end service for all resilient seat.

### Bearings

Made of 316 stainless steel with graphite impregnated or reinforced PTFE impregnated for long life.

### Stem :

17-4PH stainless steel is standard and provides maximum strength and stability for high torque. Other materials are available upon request.

### Mounting Flange :

Designed for direct drive installation for easy installation and cost savings. For valves up to 20 inches, no additional brackets are required for manual control and automatic control.

### Packing :

PTFE is a cup cone system. Graphite is a compression molded ring positive seal.

### Disc Taper Pins :

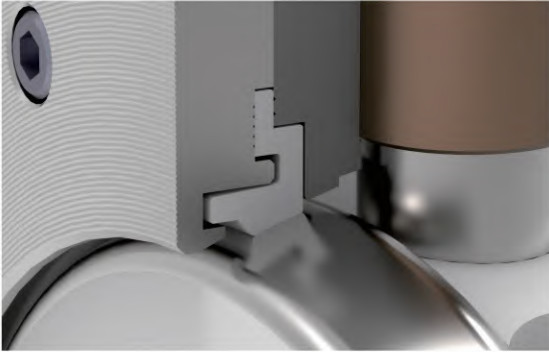
The pin is offset from the center of the stem, making it compressed, not sheared. This makes their yield point greater than itself. The pins are soldered and fixed after final assembly and testing.

### Seat :

The advanced free-floating, pressure-resistant, solid seat design provides interference and pressure-assisted sealing for a positive seal at low pressure and high pressure. The EM800 series seats do not rely on secondary positioning components such as O-rings, springs, wire or metal straps to secure the seat. This results in longer life and less maintenance.

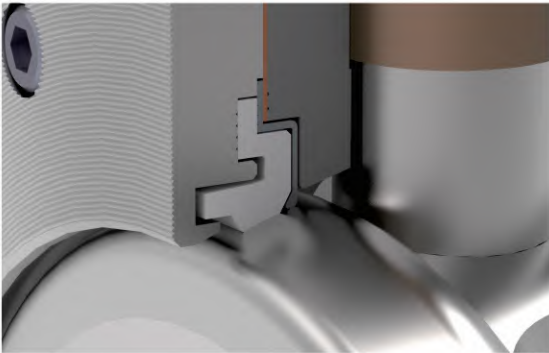


## Seat Design



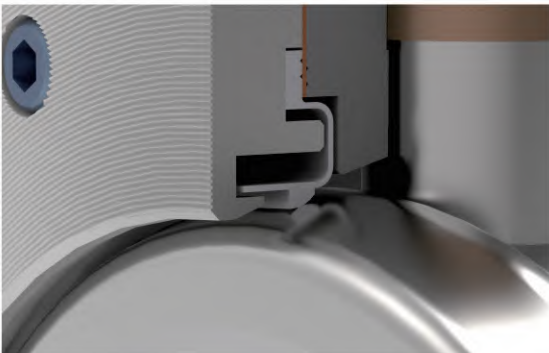
### Resilient Seat:

- Solid seat, free floating, pressure assisted seal
- No extra parts are needed to keep the positive seal
- EM800 Series resilient seat ANSI full range rated pressure
- Seat and seat retainers are designed for two-way and two-end service
- Six-level bidirectional shutdown



### Fire Safe Seat Design:

- Solid seat with metal back seat, free floating, pressure assisted seal
- No extra parts are needed to keep the positive seal
- EM800 series fire safety valve rated full ANSI pressure
- API 607 fire test
- Six-level bidirectional shutdown



### Metal Seat Design:

- Machined metal seat, free-floating, one-way, pressure-assisted seal
- EM800 series metal seat valve rated full ANSI pressure
- API 607 fire test
- Five-stage sealing, one-way sealing service



## Valve Body Ratings

### CLASS 150 Body Rating – PSI

Temperature (°F)	Carbon Steel	316 Stainless Steel	Alloy 20	M35-1 (Monel)
-20 to 100	285	275	230	230
200	260	235	200	200
300	230	215	180	190
400	200	195	160	185
500	170	170	150	170

### CLASS 150 Body Rating – Bar

Temperature (°F)	Carbon Steel	316 Stainless Steel	Alloy 20	M35-1 (Monel)
-29 to 38	19.6	19.0	15.9	15.9
100	17.7	16.2	13.5	13.7
150	15.8	14.8	12.3	13.1
200	13.8	13.7	11.3	12.8
250	12.1	12.1	10.4	11.9

### CLASS 300 Body Rating – PSI

Temperature (°F)	Carbon Steel	316 Stainless Steel	Alloy 20	M35-1 (Monel)
-20 to 100	740	720	600	600
200	680	620	520	530
300	655	560	465	495
400	635	515	420	480
500	605	480	390	475

### CLASS 300 Body Rating – Bar

Temperature (°F)	Carbon Steel	316 Stainless Steel	Alloy 20	M35-1 (Monel)
-29 to 38	51.1	49.6	41.4	41.4
100	46.6	42.2	35.3	35.9
150	45.1	38.5	32.0	33.7
200	43.8	35.7	29.4	32.7
250	41.9	33.4	27.2	32.6

### CLASS 600 Body Rating – PSI

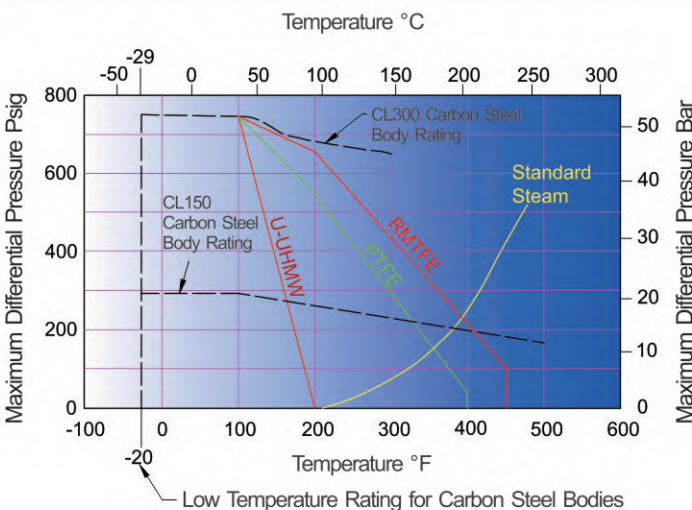
Temperature (°F)	Carbon Steel	316 Stainless Steel	Alloy 20	M35-1 (Monel)
-20 to 100	1480	1440	1200	1200
200	1350	1225	1025	1045
300	1310	1115	930	980
400	1270	1035	850	950
500	1215	970	790	945

### CLASS 600 Body Rating – Bar

Temperature (°F)	Carbon Steel	316 Stainless Steel	Alloy 20	M35-1 (Monel)
-29 to 38	102.1	99.3	82.7	82.7
100	93.2	84.4	70.6	71.9
150	90.2	77.0	64.1	67.5
200	87.6	71.3	58.7	65.4
250	83.9	66.8	54.4	65.2

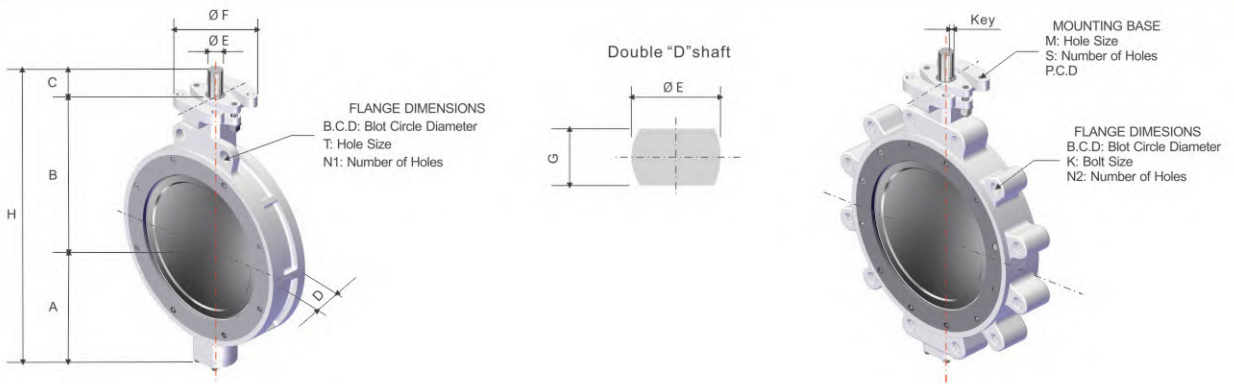
- Note:
- The above table is only the maximum working pressure rating of the valve body. The seat level is determined and the actual pressure limit is determined based on actual usage. The test pressure is the hydrostatic pressure to open the disc test.
  - Data sheet ASME B16.34.

## Valve Seat Ratings



- Note:
- As shown on the left, the seat rating is based on the different pressures when the disc is in the fully closed position, only the seat. The maximum valve body working pressure is shown in the table below.
  - API609 data.

## Dimensions – (inch)



### ANSI - CLASS 150 (ASME B16.5, ASME B16.47 SERIES A)

Size		A	B	C	D	ØE	ØF	G	H	Key	Flange Dimensions				Mounting Base		
Inch	DN										B.C.D	T	K	N1	N2	P.C.D	S
2	50	3.66	5.08	1.26	1.69	0.55	4.13	0.38	10.00	--	4.75	0.71	5/8-11UNC	2	4	3.25	0.43
2.5	65	3.82	5.16	1.26	1.85	0.63	4.13	0.38	10.24	--	5.50	0.71	5/8-11UNC	2	4	3.25	0.43
3	80	4.02	5.51	1.26	1.89	0.63	4.13	0.38	10.79	--	6.00	0.75	5/8-11UNC	2	4	3.25	0.43
4	100	4.88	6.54	1.26	2.13	0.75	4.13	0.44	12.68	--	7.50	0.75	5/8-11UNC	2	8	3.25	0.43
5	125	5.31	6.97	1.26	2.24	0.75	4.13	0.50	13.54	--	8.50	0.91	3/4-10UNC	2	8	3.25	0.43
6	150	5.71	7.36	1.26	2.24	0.75	4.13	0.50	14.33	--	9.50	0.91	3/4-10UNC	2	8	3.25	0.43
8	200	6.81	8.78	1.26	2.52	0.87	6.06	0.63	16.85	--	11.75	0.91	3/4-10UNC	2	8	5.00	0.55
10	250	8.39	10.43	2.05	2.80	1.13	6.06	--	20.87	1/4"	14.25	0.98	7/8-9UNC	2	12	5.00	0.55
12	300	9.72	11.89	2.05	3.19	1.13	6.06	--	23.66	1/4"	17.00	0.98	7/8-9UNC	2	12	5.00	0.55
14	350	11.81	13.31	2.24	3.62	1.37	7.17	--	27.36	5/16"	18.75	1.12	1-8UNC	2	12	5.00	0.55
16	400	13.31	15.35	2.99	4.02	1.87	8.27	--	31.65	1/2"	21.25	1.12	1-8UNC	2	16	6.50	0.83
18	450	14.80	16.73	2.99	4.49	1.87	8.27	--	34.53	1/2"	22.75	1.24	1 1/8-8UN	4	16	6.50	0.83
20	500	15.75	17.72	2.99	5.00	2.12	8.27	--	36.46	1/2"	25.00	1 1/8-8UN	1 1/8-8UN	4	20	6.50	0.83
24	600	18.62	20.79	4.02	6.06	2.56	11.81	--	43.43	3/4"	29.50	1 1/8-8UN	1 1/8-8UN	4	20	10.00	0.75
30	750	23.23	25.31	4.33	7.48	3.15	11.81	--	52.87	7/8"	36.00	1 1/4-8UN	1 1/4-8UN	4	28	10.00	0.75
36	900	26.57	28.74	4.33	7.99	3.15	13.78	--	59.65	7/8"	42.75	1 1/2-8UN	1 1/2-8UN	4	32	11.73	0.91

### ANSI - CLASS 300 (ASME B16.5)

Size		A	B	C	D	ØE	ØF	G	H	Key	Flange Dimensions				Mounting Base		
Inch	DN										B.C.D	T	K	N1	N2	P.C.D	S
2	50	3.66	5.08	1.26	1.69	0.55	4.13	0.38	10.00	--	5.00	0.71	5/8-11UNC	2	8	3.25	0.43
2.5	65	4.21	5.71	1.26	1.85	0.63	4.13	0.38	11.18	--	5.88	0.71	3/4-10UNC	2	8	3.25	0.43
3	80	4.61	6.06	1.26	1.89	0.63	4.13	0.38	11.93	--	6.62	0.75	3/4-10UNC	2	8	3.25	0.43
4	100	5.31	6.61	1.26	2.13	0.75	4.13	0.44	13.19	--	7.88	0.75	3/4-10UNC	2	8	3.25	0.43
5	125	5.98	7.32	1.26	2.24	0.75	4.13	0.50	14.57	--	9.25	0.91	3/4-10UNC	2	8	3.25	0.43
6	150	6.69	8.11	1.26	2.32	0.75	4.13	0.50	16.06	--	10.62	0.91	3/4-10UNC	2	12	3.25	0.43
8	200	8.03	9.61	2.01	2.87	1.13	6.06	--	19.65	1/4"	13.00	0.91	7/8-9UNC	2	12	5.00	0.55
10	250	9.21	11.02	2.01	3.27	1.13	6.06	--	22.24	1/4"	15.25	1-8UNC	1-8UNC	4	16	5.00	0.55
12	300	10.51	12.40	2.01	3.62	1.37	6.06	--	24.92	5/16"	17.75	1 1/8-8UN	1 1/8-8UN	4	16	5.00	0.55
14	350	12.76	14.76	2.99	4.61	1.87	8.27	--	30.51	1/2"	20.25	1 1/8-8UN	1 1/8-8UN	4	20	6.50	0.83
16	400	14.37	16.73	2.99	5.24	2.12	8.27	--	34.09	1/2"	22.50	1 1/4-8UN	1 1/4-8UN	4	20	6.50	0.83
18	450	16.04	18.21	4.02	5.87	2.56	11.81	--	38.27	3/4"	24.75	1 1/4-8UN	1 1/4-8UN	4	24	10.00	0.75
20	500	17.80	19.88	4.02	6.26	2.56	11.81	--	41.69	3/4"	27.00	1 1/4-8UN	1 1/4-8UN	4	24	10.00	0.75
24	600	20.31	22.83	4.45	7.13	3.15	11.81	--	47.60	7/8"	32.00	1 1/2-8UN	1 1/2-8UN	4	24	10.00	0.75



**ANSI - CLASS 600 (ASME B16.5)**

Size		A	B	C	D	ØE	ØF	G	H	Key	Flange Dimensions					Mounting Base	
Inch	DN										B.C.D	T	K	N1	N2	P.C.D	S
3	80	4.78	6.50	1.26	2.13	0.71	3.54	0.55	12.54	--	6.62	0.87	3/4-10UNC	2	8	2.76	0.39
4	100	5.75	7.72	1.26	2.52	0.87	6.14	0.67	14.72	--	8.50	0.98	7/8-9UNC	2	8	4.92	0.55
6	150	7.99	9.72	2.17	3.07	1.42	6.14	--	19.88	3/8"	11.50	1-8UNC	1-8UNC	4	12	4.92	0.55
8	200	9.65	11.61	3.15	4.02	1.89	8.46	--	24.41	1/2"	13.75	1 1/8-8UN	1 1/8-8UN	4	12	6.50	0.91
10	250	11.22	13.39	3.15	4.61	1.97	8.46	--	27.76	1/2"	17.00	1 1/4-8UN	1 1/4-8UN	4	16	6.50	0.91
12	300	13.11	15.35	4.33	5.51	2.36	11.81	--	32.80	5/8"	19.25	1 1/4-8UN	1 1/4-8UN	4	20	10.00	0.71

**Valve Torque – (in-lbs)**

**ANSI - CLASS 150**

Size		Soft Seat					Metal Seat				Fire Safe Seat			
Inch	DN	100 psi	150 psi	200 psi	285 psi	100 psi	150 psi	200 psi	285 psi	100 psi	150 psi	200 psi	285 psi	
2	50	177	186	204	221	496	540	584	664	443	487	540	620	
2.5	65	204	221	239	266	531	575	628	708	478	522	575	655	
3	80	221	248	266	310	655	717	779	885	602	664	726	832	
4	100	372	416	460	531	814	894	974	1106	726	805	876	1009	
5	125	513	558	602	681	1080	1186	1292	1478	991	1089	1195	1363	
6	150	664	735	805	929	1505	1655	1805	2062	1372	1513	1655	1903	
8	200	1239	1487	1726	2142	2283	2513	2744	3133	2124	2434	2735	3257	
10	250	2168	2487	2805	3345	3806	4204	4602	5275	3319	3682	4044	4655	
12	300	2744	3257	3770	4646	5974	6593	7204	8257	5222	5788	6363	7328	
14	350	4691	5452	6222	7523	8717	9611	10505	12018	6992	7744	8496	9779	
16	400	6638	7664	8691	10443	11063	12186	13319	15231	8939	9877	10824	12425	
18	450	9293	10753	12213	14691	15930	17523	19125	21833	12833	14178	15523	17806	
20	500	12390	14328	16266	19559	21683	23736	25789	29276	17258	18983	20700	23630	
24	600	19293	22452	25612	30975	31683	34904	38117	43586	25311	28063	30825	35506	
30	750	33188	36179	39170	44250									
36	900	47348	55118	62897	76110									

Please consult the factory

**ANSI - CLASS 300**

Size		Soft Seat					Metal Seat					Fire Safe Seat				
Inch	DN	150 psi	300 psi	400 psi	500 psi	740 psi	150 psi	300 psi	400 psi	500 psi	740 psi	150 psi	300 psi	400 psi	500 psi	740 psi
2	50	204	239	266	292	354	575	646	699	743	858	531	602	646	690	797
2.5	65	239	283	310	336	398	620	699	752	805	938	575	646	699	752	867
3	80	266	319	363	398	487	761	858	929	991	1151	708	797	858	920	1062
4	100	443	558	628	708	885	974	1071	1133	1204	1354	867	965	1035	1097	1257
5	125	602	797	920	1053	1363	1283	1620	1850	2071	2611	1195	1505	1717	1920	2425
6	150	841	1168	1389	1611	2142	1859	2195	2425	2646	3186	1637	1974	2195	2416	2956
8	200	1611	2151	2505	2859	3717	2788	3505	3991	4469	5620	2567	3372	3912	4452	5744
10	250	2522	3531	4213	4885	6505	4691	5788	6522	7257	9018	4115	5195	5912	6638	8363
12	300	3540	5000	5974	6956	9293	7611	9381	10558	11735	14558	6372	8186	9390	10602	13496
14	350	5974	9071	11133	13195	18143	10886	13939	15974	18019	22904	8496	11284	13142	15010	19470
16	400	8363	11859	14195	16523	22125	14426	18204	20718	23240	29285	10886	14718	17275	19833	25975
18	450	11682	16249	19293	22337	29648	19603	26223	30639	35055	45648	15488	21842	26081	30320	40489
20	500	15665	21249	24966	28683	37613	25842	35427	41816	48206	63543	20532	30294	36798	43303	58923
24	600	24072	32010	37312	42604	55313	38763	51958	60755	69552	90659	30267	44958	54755	64552	88058

**ANSI - CLASS 600**

Size		Soft Seat					Metal Seat					Fire Safe Seat				
Inch	DN	150 psi	500 psi	800 psi	1200 psi	1480 psi	150 psi	500 psi	800 psi	1200 psi	1480 psi	150 psi	500 psi	800 psi	1200 psi	1480 psi
3	80	336	407	699	920	1071	885	1151	1416	1859	2159	885	1106	1292	1690	2000
4	100	513	752	1283	1752	2071	1593	2213	3089	4213	4974	1416	1682	1974	2690	3239
6	150	814	1133	2159	2982	3540	3098	4602	6514	8992	10664	3133	3735	4345	5991	7257
8	200	1593	2230	4230	5841	6930	4868	7080	9832	13567	16089	5894	7045	8195	11301	13673
10	250	2646	3699	7027	9700	11505	7257	10620	14514	20019	23753	9496	11346	13195	18196	22037
12	300	3991	5567	10593	14603	17328	13275	18585	24355	33603	39869	14620	17461	20293	27993	33896

Note: Resilient seat: For electric actuators, it is recommended to increase by at least 30%.

Metal seat and fire seat: For electric actuators, it is recommended to increase by at least 50%.



## CV Value

### CLASS 150

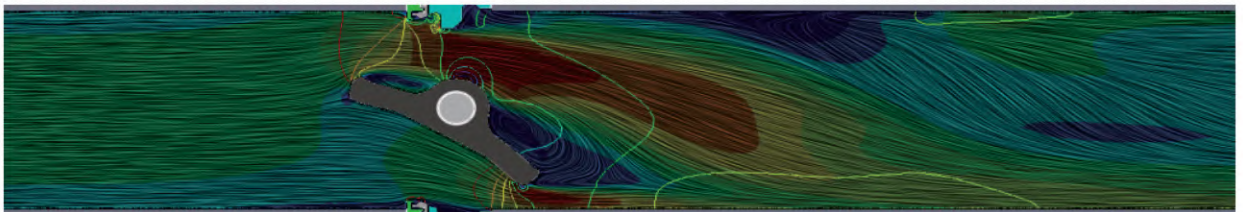
Size		Angle of Opening (Degrees)								
Inch	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	1	12	26	40	47	49	50	51	62
2.5	65	3	19	47	63	78	80	84	95	110
3	80	4	25	52	74	87	100	123	145	157
4	100	6	44	82	119	156	196	240	266	284
5	125	14	71	131	168	209	280	368	479	512
6	150	20	108	198	272	380	501	651	803	831
8	200	54	251	390	559	780	1043	1385	1747	1838
10	250	84	382	580	827	1174	1612	2202	2803	2811
12	300	119	553	874	1230	1733	2371	3271	4178	4205
14	350	163	632	955	1383	1813	2855	3944	5219	5564
16	400	250	879	1334	1916	2781	3939	5530	6984	7091
18	450	388	1136	1681	2433	3526	4981	6843	8631	9127
20	500	463	1390	2052	2985	4363	6280	8900	11803	12613
24	600	710	2159	3312	4750	6881	9926	14336	19656	20596
30	750	1107	2602	3603	5556	8721	13216	20376	28285	31500
36	900	1692	3391	4917	7914	12744	20021	31640	45241	51233

### CLASS 300

Size		Angle of Opening (Degrees)								
Inch	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
2	50	1	12	26	40	47	49	50	51	62
2.5	65	3	19	47	63	78	80	84	95	110
3	80	4	25	52	74	87	100	123	145	157
4	100	6	44	82	119	156	196	240	266	284
5	125	14	71	131	168	209	280	368	479	512
6	150	20	108	198	272	380	501	651	803	831
8	200	47	206	319	420	595	843	1106	1463	1502
10	250	81	344	524	720	1014	1399	1821	2205	2413
12	300	117	506	728	1019	1449	2044	2717	3456	3575
14	350	161	603	898	1208	1754	2493	3294	4129	4603
16	400	164	766	1172	1560	2275	3287	4301	5550	6647
18	450	274	809	1320	1791	2803	4051	5603	7193	8946
20	500	318	1100	1624	2274	3392	5075	6818	8906	11003
24	600	394	1728	2462	3518	5222	7613	10323	13596	16430

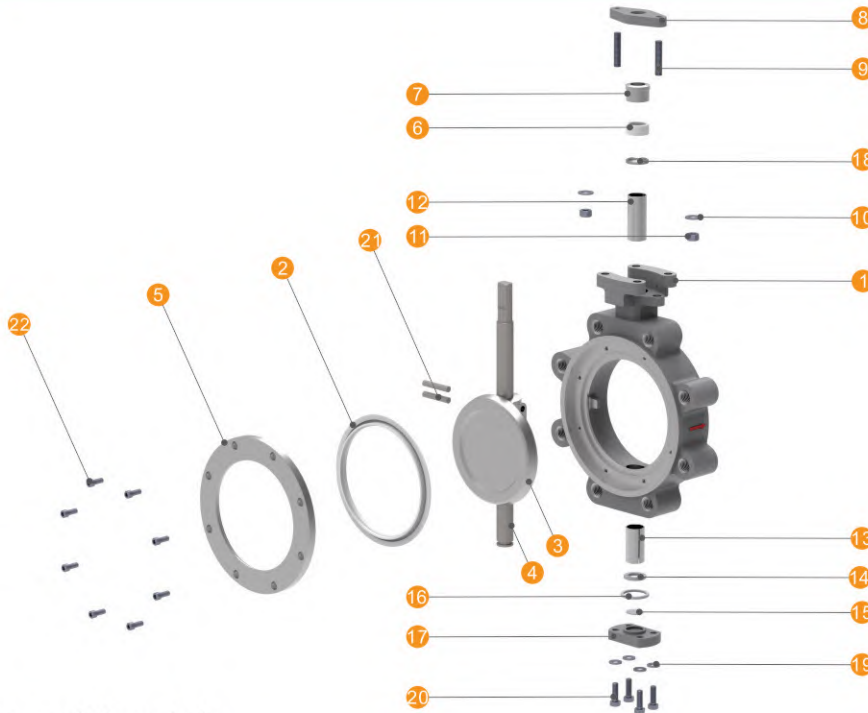
### CLASS 600

Size		Angle of Opening (Degrees)								
Inch	DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
3	80	2	25	61	82	84	89	94	107	126
4	100	6	42	96	138	140	149	163	197	230
6	150	17	110	225	281	291	336	402	497	578
8	200	43	231	424	524	528	621	731	913	1076
10	250	61	335	597	772	876	1049	1281	1623	1891
12	300	82	484	875	1108	1223	1498	1821	2341	2740



Note: CV is the volume of water flowing through a given limit or valve opening at a pressure drop of one (1) psi in U.S.G.P.M. at room temperature. It is recommended to control the angle between 25° and 70°. The preferred angle for the control valve size is 60° – 65° open. This chart is calculated and is for reference only.

Parts List



Parts List and Materials

No.	Part Name	QTY	Material
1	Valve Body	1	ASTM A351-CF8M ASTM A216-WCB
2	Seat	1	Seat Holder Bolt
3	Valve Disc	1	ASTM A351-CF8M
4	Valve Stem	1	17-4PH Stainless Steel
5	Seat Retainer	1	ASTM A351-CF8M ASTM A216-WCB
6	Packing	1 Set	PTFE / Graphite
7	Sealing Ring	1	316 Stainless Steel
8	Packing Gland	1	ASTM A351-CF8M ASTM A216-WCB
9	Packing Gland Bolt	1Set	316 Stainless Steel
10	Washer	1 Set	316 Stainless Steel
11	Hex Nut	1 Set	316 Stainless Steel
12	Upper Bearing	1 Set	S.S 316+PTFE / S.S 316
13	Lower Bearing	1 Set	S.S 316+PTFE / S.S 316
14	Thrust Bearing	1	316 Stainless Steel
15	Adjustment Washer	1	PTFE / 316 Stainless Steel
16	Lower End Cap Seal	1	PTFE / Graphite
17	Lower End Cap	1	ASTM A351-CF8M ASTM A216-WCB
18	Packing Washer	1	PTFE / 316 Stainless Steel
19	Gland Stubs	1 Set	316 Stainless Steel
20	Lower End Cap Bolt	1 Set	316 Stainless Steel
21	Tapered Pin	1 Set	17-4PH Stainless Steel
22	Seat Retainer Bolt	1 Set	316 Stainless Steel

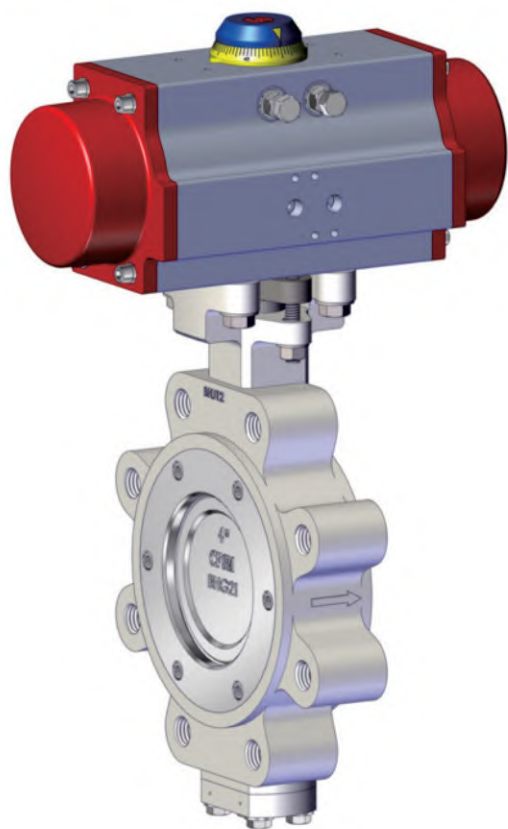


## Manufacturing standards and design standards

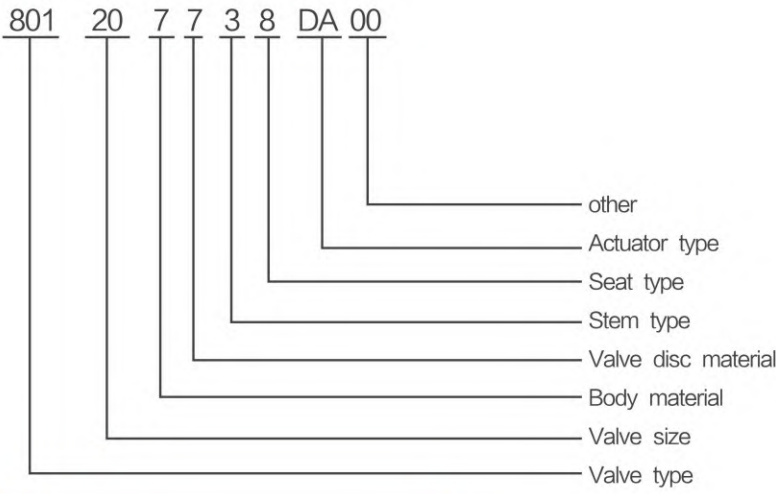
Design Standard	EM Standard	API 609 Category-B API 607
	Optional Configurations	BS 5155
Face-to-Face	EM Standard	API 609 Category-B MSS-SP-68 Table 1 ASME B16.10 Table 8 ISO 5752 Series 20
	Optional Configurations	DIN 3202 BS5155
Flange connection	EM Standard	ASME B16.5 (CL150 , CL300 ,CL600) ASME B16.47 Series A (CL150 , CL300) MSS-SP-44 (CL150 ,CL300 ,CL600) AWWA C207 Class E
	Optional Configurations	JIS B 2210 (10K , 16K , 20K , 30K , 40K) ISO7005-1 and DIN2501 ( PN10 , PN16, PN20 , Pn40)
Test	EM Standard	API598 API 607 BS1560 BS5155 FCI 70-2
	Optional Configurations	JIS B 2203 , 2201 DIN3230 MSS-SP-61 ISO10497

## Optional Materials for Pressure Parts

Part Name	Material	ASTM No.
Valve body	Hastelloy alloy C CN7M (alloy 20) M35-1 (Monel) CD3Mn (Duplex Stainless Steel) CF3M (316L)	Hastelloy C276 ASTM A351 ASTM A494 ASTM A995 ASTM A351
Seat	Inconel X718 U-UHMW Polyethylene	
End Cap Gland Flange	Hastelloy alloy C CN7M (alloy 20) M35-1 (Monel) CD3Mn (Duplex Stainless Steel) CF3M (316L)	Hastelloy C276 ASTM A351 ASTM A494 ASTM A995 ASTM A351
Disc	Hastelloy alloy C CN7M (alloy 20) M35-1 (Monel) CD3Mn (Duplex Stainless Steel) CF3M (316L)	Hastelloy C276 ASTM A351 ASTM A494 ASTM A351 ASTM A351
Shaft	2205 Duplex Stainless Steel 316L Stainless Steel Monel K400 Hastelloy alloy C Alloy 20	SAF 2205 ASTM A276 ASME SB-127 Hastelloy C276 ASTM B462



Product configuration code



Valve Type

801	150Class,Wafer
802	150Class,Lug
831	300Class,Wafer
832	300Class,Lug
861	600Class,Wafer
862	600Class,Lug

Valve Size		Body Material		Valve Disc Material		Stem Material		Seat Material	
2"	02	20"	20	7	CF8M	7	316	9	PTFE
2.5"	2B	24"	24	6	WCB	6	17-4PH(630)	8	RTFE
3"	03	28"	28	5	High Nickel Alloy	5	High Nickel Alloy	7	U-UHM (Polymer)
4"	04	30"	30	4	Monel	4	Monel	6	316
5"	05	36"	36	3	Hastelloy C	3	Hastelloy C	5	RTFE+316
6"	06			2	Duplex Stainless Steel	2	Duplex Stainless Steel	4	RTFE + Inconel
8"	08			1	Super Duplex Stainless Steel	1	Super Duplex Stainless Steel	3	Inconel
10"	10			0	Inconel	0	Inconel	2	Hastelloy C
12"	12			A	CF3M	A	316L	1	304
14"	14			L	CF8	L	304	A	Alloy 20
16"	16			M	CN7M	M	Alloy 20		
18"	18								

Actuator type

DA	Double Acting Pneumatic Actuator
SR	Sping Return Pneumatic Actuator
GA	Worm Gear
EA	Electric Actuator
HD	Handle

Other

00	No request
01	Low temperature
02	NSF-61/372
03	Special Finishing

Company Profile

Resilient Seated Butterfly Valve

Double Eccentric High Performance Butterfly Valve

Turbine Actuator

Pneumatic Actuator