

A trusted name in industrial valve company

**HIGH
PERFORMANCE
BUTTERFLY
VALVE**

PRESSURE CLASS:

150-600

SIZE RANGE:

2" to 100"

API STANDARDS: 609

ASME B16.34

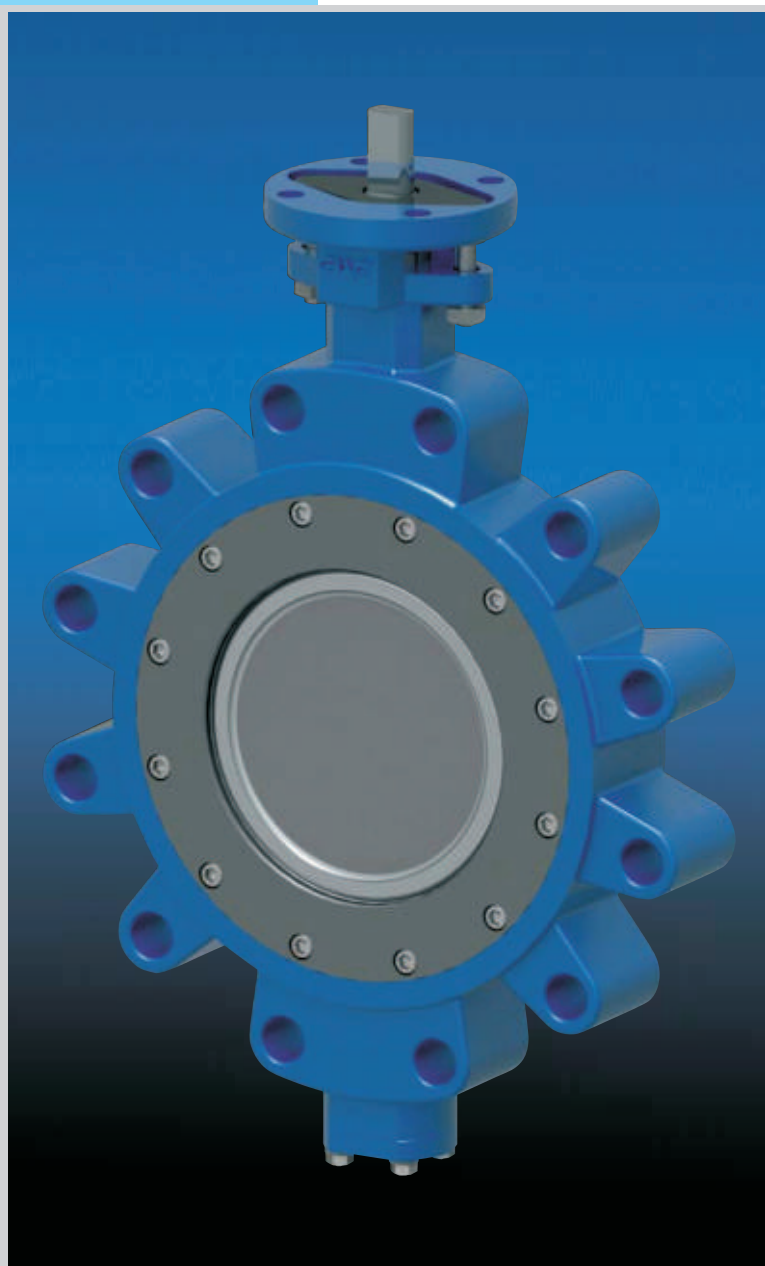




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Fastwell High Performance Butterfly Valve is from the family of quarter-turn valves. This valve is designed and manufactured to meet API 609 and ASME B16.34 specifications.

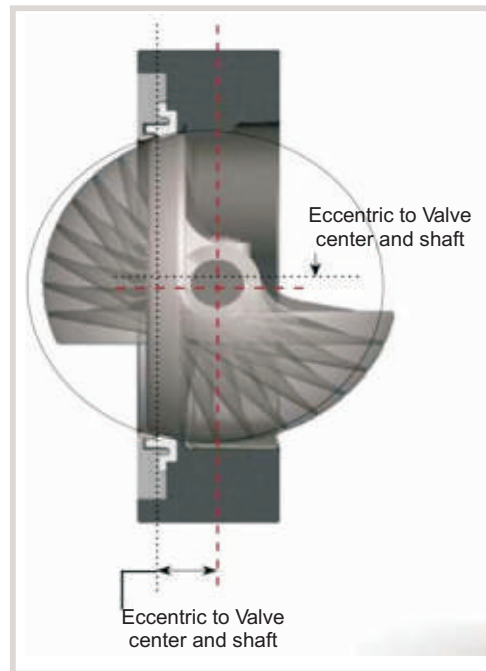
DESCRIPTION OF VALVE

- Sizes 2" (50mm) to 100" (2500mm) are standard.
- 150, 300 & 600 ASME Class ratings are standard.
- Wafer, Lug, Flanged and Butt-Weld construction are available.
- Flanged ends available from 4" and Butt-Weld ends available from 6".
- Pressure testing according to API 598.
- Three types of seat designs are available, Non Fire Safe Seat, Fire Safe Seat and Metal Seat.
- Soft seat valve designs are bidirectional.
- Metal seat and Fire Safe seat designs are fire safe certified.
- The valves have a center disc mounted to the vertical stem with disc pins.
- When the stem rotates, the disc rotates around the vertical stem axis and closes or opens the valve.
- The disc is mounted with double eccentric from the stem and valve axis.
- This arrangement increases the life of the seat.
- The stem is a blowout proof design which prevents the stem from blowing out in case of stem breakage.
- The seat has a spherical seating surface, which reduces the torque required.
- The seat is retained by the seat retainer, which prevents the seat from blowing out during operation.
- The seat can be changed between soft seat, metal seat and fire safe seat with same seat retainer bolted to body.
- Gear operator can be mounted on the valve with a mounting bracket.
- Tight shutoff leakage class VI possible with Soft seated (Non Fire Safe) and Fire Safe soft seated valve designs.
- Leakage class V is applicable to metal seated valve designs.

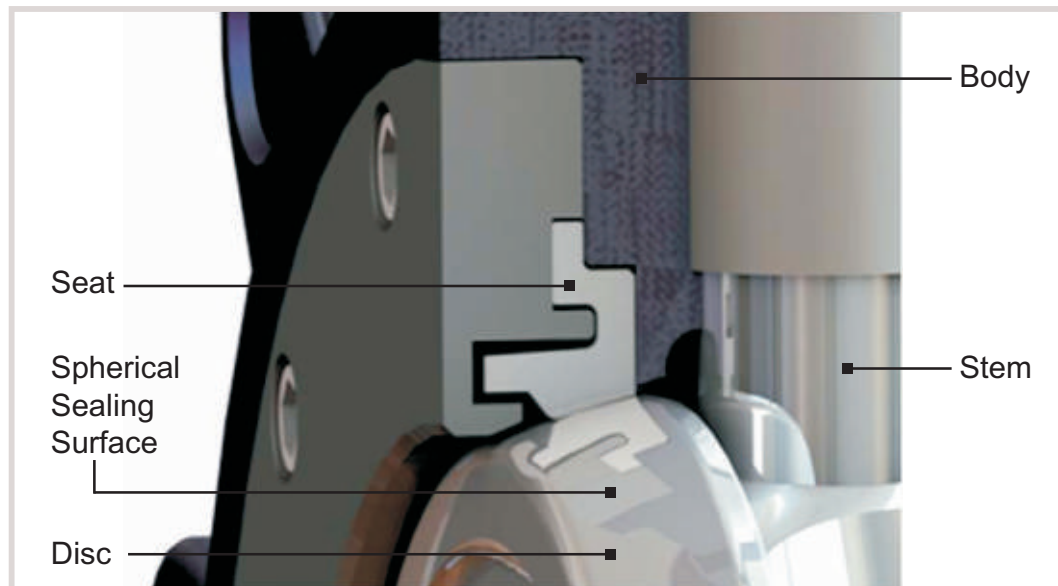


DOUBLE ECCENTRIC DISC-SHAFT

- This feature keeps the valve seat away from the disc when the disc starts rotating around the stem.
- Eliminate the wear on the seat and thus increases the life of the seat.
- Offers excellent throttling capabilities, which makes it an ideal choice for flow control applications



SPHERICAL DISC SEALING SURFACE AND BLOW-OUT PROOF SEAT



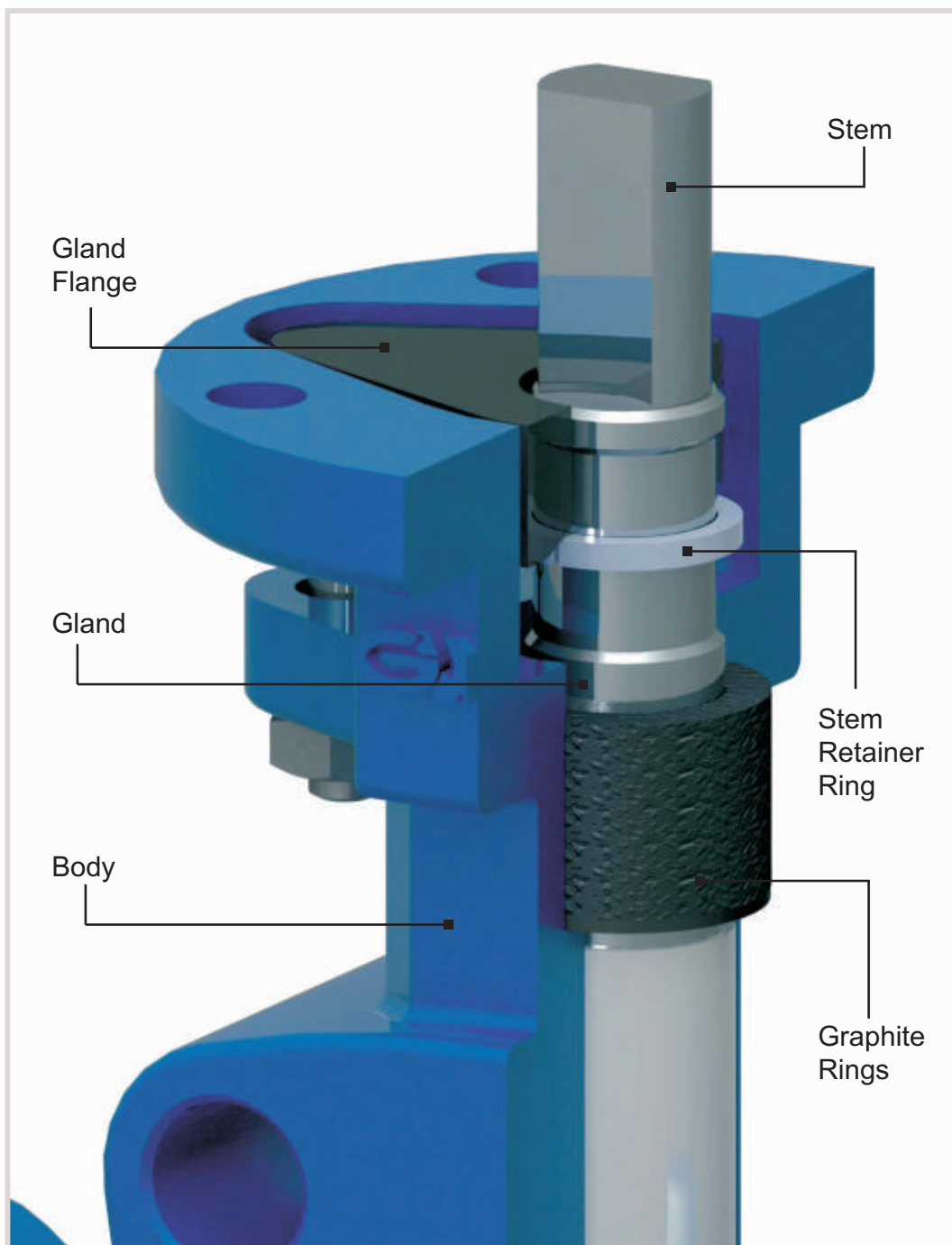
SPHERICAL DISC SEALING SURFACE

- Spherical sealing surface on Disc provides better sealing capability.
- Lowers the break away torque because of less friction between the seat and disc

BLOW-OUT PROOF SEAT

- HP butterfly valves have a unique seat and seat retainer design to minimize the seat movement.
- The seat retainer is bolted to the body, the retainer plate holds the seat in the seat pocket and hence a seat blow-out is avoided.

BLOW-OUT PROOF STEM AND ACTUATOR MOUNTING



BLOW-OUT PROOF STEM

- The Stem has a anti-blowout retainer ring to protect the stem from blow-out in case of stem breakage.

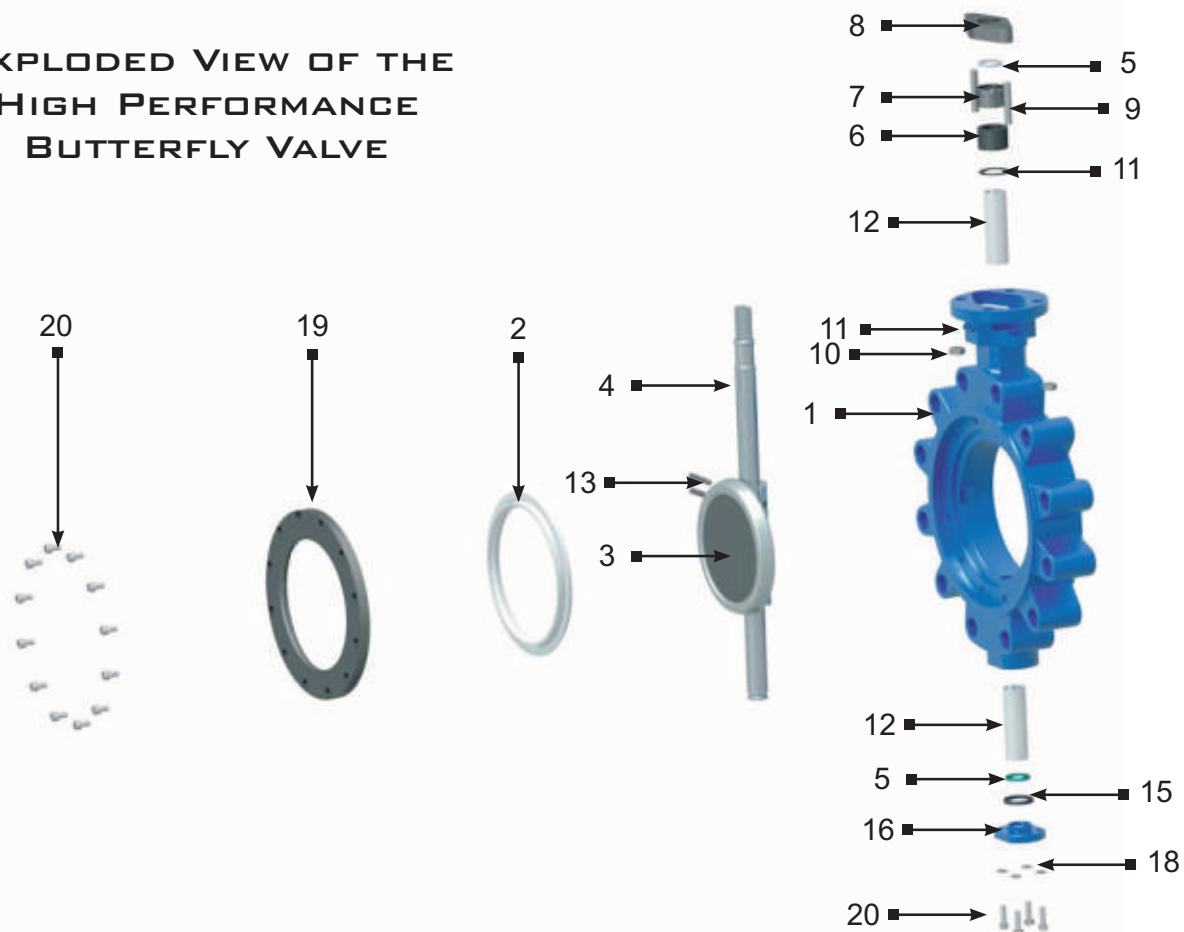
ACTUATOR MOUNTING

- HP butterfly valves allow mounting of an actuator with a mounting bracket.
- The Stem Packing can be adjusted from below the Mounting Flange

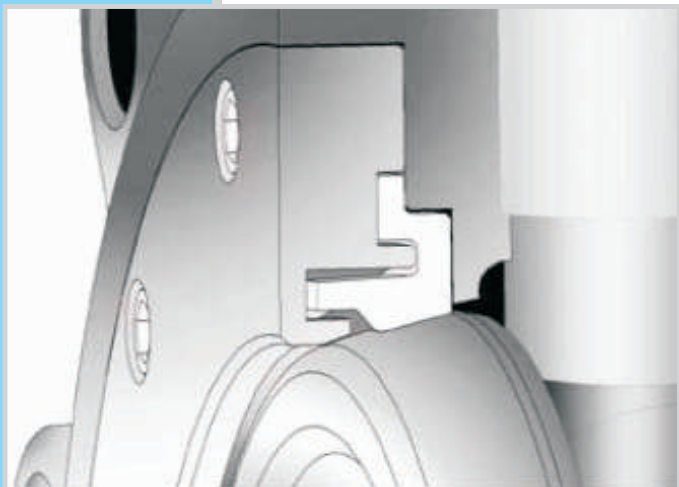
STANDARD PARTS & MATERIALS

NO.	PART NAME	SOFT SEATED		METAL SEATED		FIRE SAFE	
		CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL
1	BODY	WCB	CF8M	WCB	CF8M	WCB	CF8M
2	SEAT	RTFE		SS316		SS316+RTFE	
3	DISC	CF8M		CF8M+ENP		CF8M	
4	STEM	17-4PH					
5	STEM RETAINER	SS316					
6	PACKING	PTFE		GRAPHITE			
7	PACKING GLAND	SS316					
8	GLAND FLANGE	SS304-CF8					
9	GLAND BOLT	STAINLESS STEEL					
11	WASHER	STAINLESS STEEL					
12	BEARING	SS+TEFLON		SS316			
13	DISC PIN	17-4PH					
14	PACKING RETAINER	SS316					
15	CAP PACKING	PTFE		GRAPHITE			
16	CAP	WCB	SS316/CF8M	WCB	SS316/CF8M	WCB	SS316/CF8M
17	CAP BOLT	STAINLESS STEEL					
18	WASHER	STAINLESS STEEL					
19	SEAT RETAINER	AISI-1020	SS316	AISI-1020	SS316	AISI-1020	SS316
20	RETAINER BOLT	STAINLESS STEEL					

EXPLODED VIEW OF THE HIGH PERFORMANCE BUTTERFLY VALVE

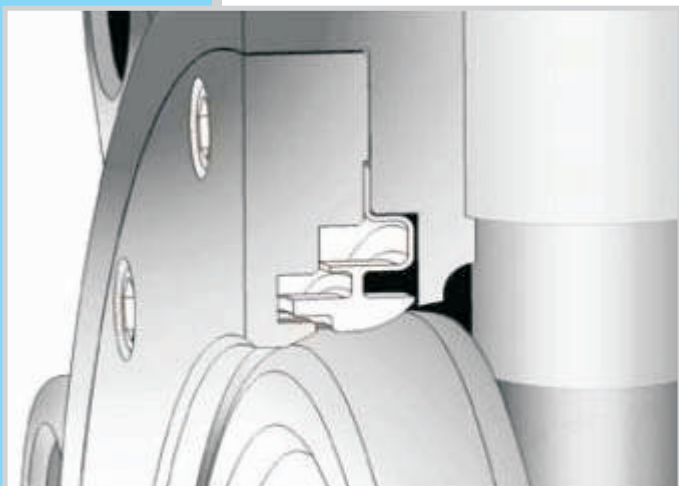


SOFT SEATED BUTTERFLY VALVE



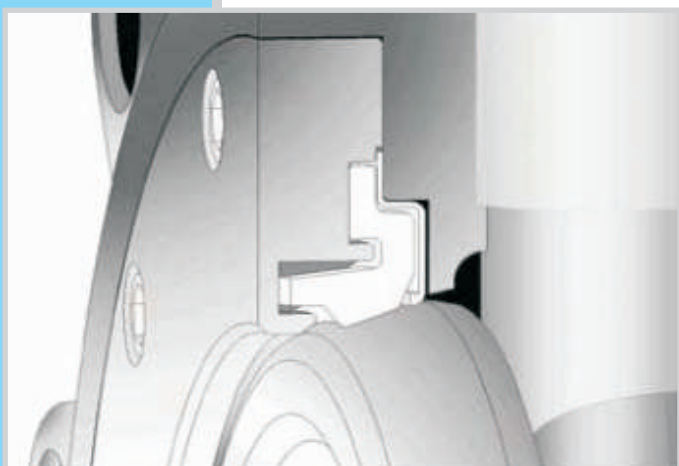
- Advanced trim structure enables bi-direction sealing.
- Designed to perform fully within designated pressure/temperature ratings.
- Anti-blowout seat and seat retainer allow full differential pressure at any disc position.
- With a wide variety of seat materials provide tight shutoff seal in applications ranging from low temperature to saturated steam.

METAL SEATED BUTTERFLY VALVE



- Flexible solid metal body seat with Electroless Nickel Plated disc to enhance the strength of the sealing edge of the disc.
- Designed to reduced seat movement and retain elasticity of the metal seat to prevent loss of sealing capacity in high temperature and high pressure applications.
- Fully fire tested according to API-6FA.
- Stellite hard face available for services of 660F and higher to minimize thermal expansion of the disc.

FIRE SAFE SEATED BUTTERFLY VALVE



- Double seated design with primary soft seat backed up by the secondary metal seat and functions in both directions.
- Metal seat functions as primary seat in case of fire providing a leakage class IV
- Extended range of applications due to a wide variety of seat materials for primary and secondary seals.
- Fully fire tested according to API-607 and API-6FA.

Example: 8" Figure #HP15W-3-A466-GO

HP	15	W	-	3	-	A	4	6	6	-	GO
1.	2.	3.		4.		5.	6.	7.	8.		9.

8" CLASS 150 HIGH PERFORMANCE BUTTERFLY VALVE, WAFER TYPE,
A216 WCB BODY, A351 CF8M DISC, 17-4PH STEM, RTFE SEAT, GEAR OP.

1. MODEL

HP - HIGH PERFORMANCE BUTTERFLY VALVE

2. RATING

15 - CLASS 150
30 - CLASS 300
60 - CLASS 600

3. END CONNECTION

W - WAFER
L - LUG
DF - DOUBLE FLANGE

4. TYPE

1 - FIRE-SAFE
3 - NON-FIRESAFE

5. MATERIAL (BODY)

A - WCB
C - LCC
D - LCB
M - CF8
N - CF8M
O - CF3
X - OTHER

6. MATERIAL (DISC)

3 - CF8
4 - CF8M
X - OTHER

7. STEM

6 - 17-4PH
X - OTHER

8. SEAT

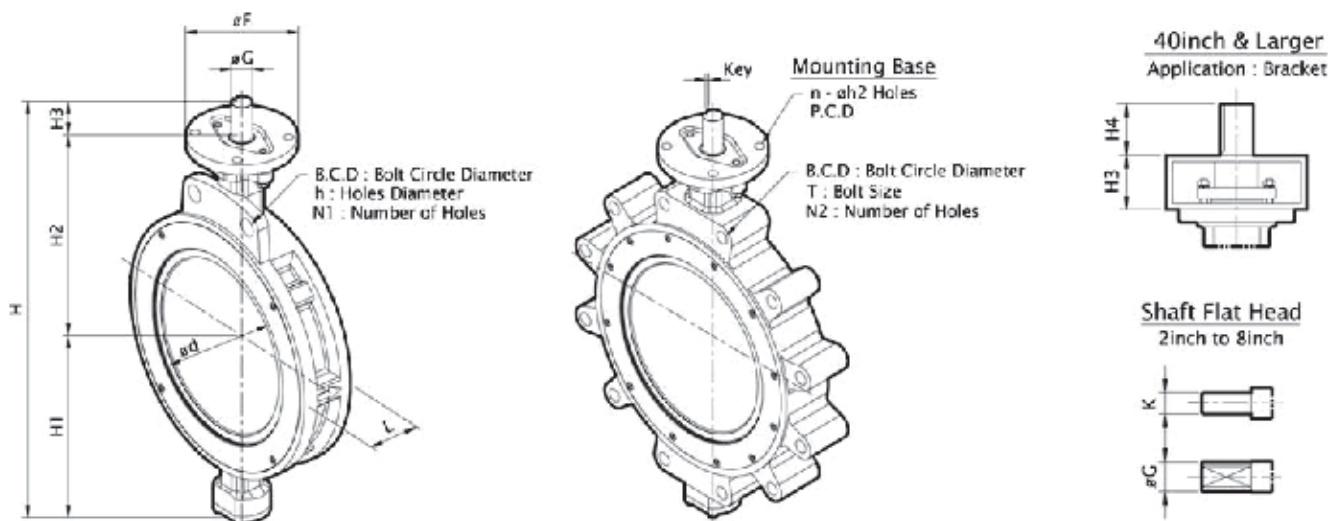
5 - PTFE
6 - RTFE
7 - 316SS
9 - RTFE/316SS
X - OTHER

9. OPERATOR

- LEVER
GO - GEAR OPERATOR
B - BARE STEM

10. SPECIAL REQUIREMENT

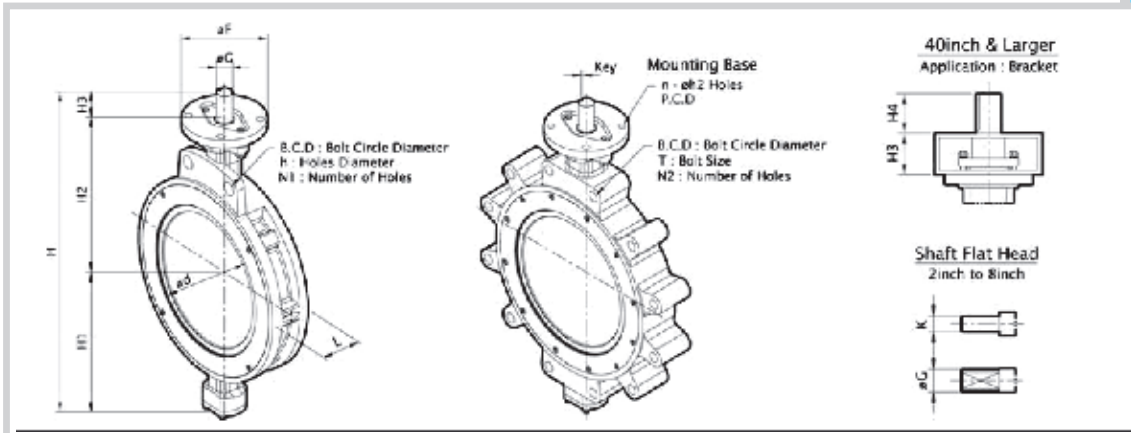
N - NACE MR-01-75
S - SUPPLY COMPLETE INFORMATION
EB - EXTENDED BONNET



CLASS 150

SIZE	ϕd	L	H	H1	H2	H3	H4	K	ϕG	ϕF	B.C.D.	ϕH	T	N1	N2	P.C.D.	n	$\phi h2$
2	1.85	1.69	10.12	3.94	4.92	1.26	-	0.374	0.551	4.02	4.75	0.750	5/8"x11unc	2	4	3.25		0.43
2.5	2.40	1.85	11.15	4.02	5.87	1.26	-	0.437	0.626	4.02	5.50	0.750	5/8"x11unc	2	4	3.25		0.43
3	2.83	1.89	11.97	4.41	6.30	1.26	-	0.437	0.626	4.02	6.00	0.750	5/8"x11unc	2	4	3.25		0.43
4	3.74	2.13	13.15	4.88	7.01	1.26	-	0.500	0.748	4.02	7.50	0.750	5/8"x11unc	2	8	3.25		0.43
5	4.65	2.24	14.41	5.55	7.60	1.26	-	0.500	0.748	4.02	8.50	0.875	3/4"x10unc	2	8	3.25		0.43
6	5.43	2.24	16.22	6.57	8.39	1.26	-	0.500	0.748	4.02	9.50	0.875	3/4"x10unc	2	8	3.25		0.43
8	7.40	2.52	18.39	7.68	9.45	1.26	-	0.626	0.874	5.98	11.75	0.875	3/4"x10unc	2	8	5.00		0.55
10	9.25	2.83	21.73	8.66	11.02	2.05	-	0.25x0.25	1.126	5.98	14.25	1.000	7/8"x9unc	2	12	5.00		0.55
12	10.83	3.19	24.64	10.43	12.20	2.01	-	0.25x0.25	1.126	5.98	17.00	1.000	7/8"x9unc	2	12	5.00		0.55
14	12.48	3.62	27.24	11.81	13.19	2.24	-	0.31x0.31	1.374	5.98	18.75	1.125	1"x8unc	2	12	5.00		0.55
16	14.13	4.02	31.85	13.39	15.47	2.99	-	0.50x0.50	1.874	8.03	21.25	1.125	1"x8unc	2	16	6.50		0.83
18	16.38	4.49	34.56	14.76	16.81	2.99	-	0.50x0.50	1.874	8.03	22.75	-	1 1/8"x8un	4	16	6.50		0.83
20	18.39	5.00	36.46	15.75	17.72	2.99	-	0.50x0.50	2.126	8.03	25.00	-	1 1/8"x8un	4	20	6.50		0.83
22	20.00	6.06	40.63	17.32	19.29	4.02	-	0.75x0.50	2.555	11.42	27.25	-	1 1/4"x8un	4	20	10.00		0.75
24	21.57	6.06	43.59	18.70	20.87	4.02	-	0.75x0.50	2.555	11.42	29.50	-	1 1/4"x8un	4	20	10.00		0.75
26	23.11	6.50	46.14	19.88	22.24	4.02	-	0.75x0.50	2.555	11.42	31.75	-	1 1/4"x8un	4	24	10.00		0.75
28	25.12	6.50	49.49	21.85	23.62	4.02	-	0.75x0.50	2.555	11.42	34.00	-	1 1/4"x8un	4	28	10.00		0.75
30	27.01	7.48	52.87	23.03	25.39	4.45	-	0.87x0.55	3.146	12.99	36.00	-	1 1/4"x8un	4	28	10.00		0.75
32	28.94	7.48	55.04	24.21	26.38	4.45	-	0.87x0.55	3.146	12.99	38.50	-	1 1/2"x8un	4	28	10.00		0.75
34	30.83	7.99	58.19	26.18	27.56	4.45	-	0.87x0.55	3.146	12.99	40.50	-	1 1/2"x8un	4	32	10.00		0.75
36	33.03	7.99	59.57	26.38	28.74	4.45	-	0.87x0.55	3.146	12.99	42.75	-	1 1/2"x8un	4	32	10.00		0.75
38	35.43	8.50	62.33	28.35	29.53	4.45	-	0.87x0.55	3.146	12.99	45.25	-	1 1/2"x8un	4	32	10.00		0.75
40	37.32	8.50	70.59	29.84	30.12	5.91	4.72	1.10x0.63	3.933	-	47.25	-	1 1/2"x8un	8	36	11.73		0.91
42	39.45	9.49	72.83	31.10	30.71	6.30	4.72	1.10x0.63	3.933	-	49.50	-	1 1/2"x8un	8	36	11.73		0.91
48	44.37	10.00	81.69	35.43	34.65	6.30	5.31	1.26x0.71	4.720	-	56.00	-	1 1/2"x8un	8	44	11.73		0.91

HIGH PERFORMANCE - WAFER AND LUG TYPE

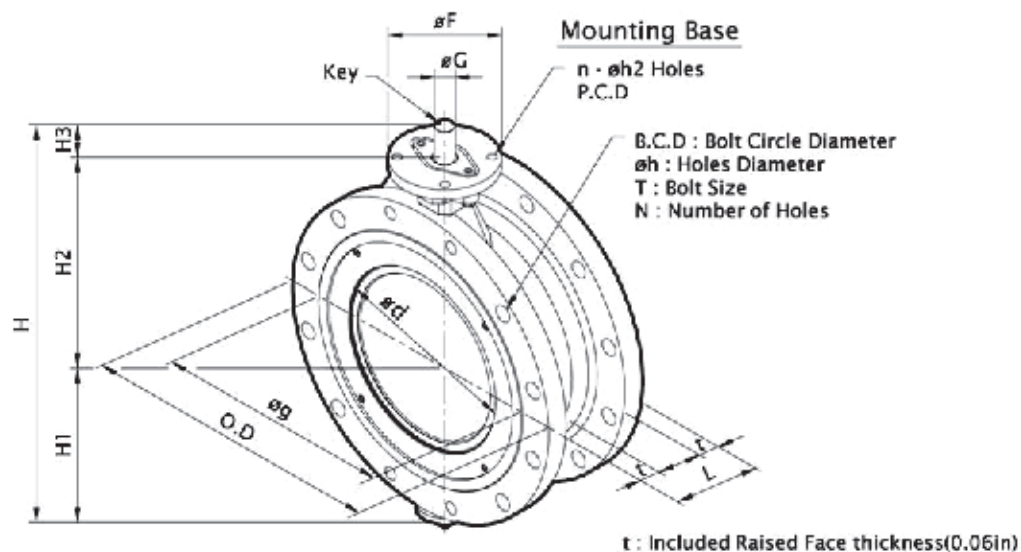


CLASS 300

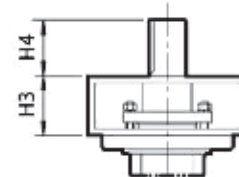
SIZE	ød	L	H	H1	H2	H3	H4	K	øG	øF	B.C.D.	øH	T	N1	N2	PC.D.	n	øh2
2	1.85	1.73	10.12	3.94	4.92	1.26	-	0.374	0.551	4.02	5.00	0.750	5/8"x11unc	2	8	3.25		0.43
2.5	2.40	1.89	11.15	4.02	5.87	1.26	-	0.437	0.626	4.02	5.88	0.875	3/4"x10unc	2	8	3.25		0.43
3	2.83	1.93	11.97	4.41	6.30	1.26	-	0.437	0.626	4.02	6.62	0.875	3/4"x10unc	2	8	3.25		0.43
4	3.74	2.13	13.15	4.88	7.01	1.26	-	0.500	0.748	4.02	7.88	0.875	3/4"x10unc	2	8	3.25		0.43
5	4.65	2.24	14.41	5.55	7.60	1.26	-	0.500	0.748	4.02	9.25	0.875	3/4"x10unc	2	8	3.25		0.43
6	5.39	2.32	16.85	6.93	8.66	1.26	-	0.500	0.748	4.02	10.62	0.875	3/4"x10unc	2	12	3.25		0.43
8	7.32	2.87	20.71	8.46	10.24	2.01	-	0.25x0.25	1.126	5.98	13.00	1.000	7/8"x9unc	2	12	5.00		0.55
10	9.06	3.27	22.96	9.53	11.42	2.01	-	0.25x0.25	1.126	5.98	15.25	-	1"x8unc	4	16	5.00		0.55
12	10.79	3.62	25.56	10.75	12.80	2.01	-	0.31x0.31	1.374	5.98	17.75	-	1 1/8"x8unc	4	16	5.00		0.55
14	12.32	4.61	30.55	12.80	14.76	2.99	-	0.50x0.50	1.874	8.03	20.25	-	1 1/8"x8unc	4	20	6.50		0.83
16	14.02	5.24	34.09	14.37	16.73	2.99	-	0.50x0.50	2.122	8.03	22.50	-	1 1/4"x8unc	4	20	6.50		0.83
18	16.26	5.87	38.47	16.14	18.31	4.02	-	0.75x0.50	2.555	11.42	24.75	-	1 1/4"x8unc	4	24	10.00		0.75
20	18.35	6.26	41.62	17.72	19.88	4.02	-	0.75x0.50	2.555	11.42	27.00	-	1 1/4"x8unc	4	24	10.00		0.75
24	21.50	7.13	47.83	20.55	22.83	4.45	-	0.87x0.55	3.146	12.99	32.00	-	1 1/2"x8unc	4	24	10.00		0.75
26	23.70	8.27	51.30	22.05	24.80	4.45	-	0.87x0.55	3.146	12.99	34.50	-	1 5/8"x8unc	4	28	10.00		0.75
28	25.43	9.02	60.24	24.02	25.20	6.30	4.72	1.10x0.63	3.933	-	37.00	-	1 5/8"x8unc	4	28	11.73		0.91
30	27.17	9.06	62.59	25.98	25.59	6.30	4.72	1.10x0.63	3.933	-	39.25	-	1 3/4"x8unc	4	28	11.73		0.91
32	29.53	9.49	65.35	27.56	26.77	6.30	4.72	1.10x0.63	3.933	-	41.50	-	1 7/8"x8unc	4	28	11.73		0.91
36	33.46	10.75	71.25	29.72	29.92	6.30	5.31	1.26x0.71	4.720	-	46.00	-	2"x8unc	8	32	11.73		0.91
38	35.28	11.81	70.27	29.13	29.53	6.30	5.31	1.26x0.71	4.720	-	43.00	-	1 1/2"x8unc	8	32	11.73		0.91
40	36.77	11.81	73.15	29.84	30.71	6.69	5.91	1.42x0.79	5.508	-	45.50	-	1 5/8"x8unc	8	32	14.02		1.30
48	43.07	13.78	86.21	34.84	36.61	7.87	6.89	1.77x0.98	7.039	-	54.00	-	1 7/8"x8unc	8	32	15.98		1.54

CLASS 600

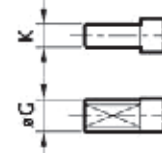
SIZE	ød	L	H	H1	H2	H3	H4	K	øG	øF	B.C.D.	øH	T	N1	N2	PC.D.	n	øh2
3	2.91	2.17	12.67	4.92	6.57	1.18	-	0.500	0.748	4.02	6.62	0.875	3/4"x10unc	2	8	3.25		0.43
4	3.78	2.52	14.65	5.71	7.68	1.26	-	0.626	0.874	5.98	8.50	1.000	7/8"x9unc	2	8	5.00		0.55
6	5.20	3.07	19.76	8.07	9.45	2.24	-	0.31x0.31	1.374	5.98	11.50	-	1"x8unc	4	12	5.00		0.55
8	6.85	4.06	23.86	9.45	11.42	2.99	-	0.50x0.50	1.874	8.03	13.75	-	1 1/8"x8unc	4	12	6.50		0.83
10	8.78	4.61	27.20	11.02	13.19	2.99	-	0.50x0.50	1.874	8.03	17.00	-	1 1/4"x8unc	4	16	6.50		0.83
12	10.59	5.51	31.90	12.72	15.16	4.02	-	0.75x0.50	2.358	11.42	19.25	-	1 1/4"x8unc	4	20	10.00		0.75
14	11.81	6.10	35.72	14.57	17.13	4.02	-	0.75x0.50	2.555	11.42	20.75	-	1 3/8"x8unc	4	20	10.00		0.75
16	13.74	7.01	38.66	15.94	18.70	4.02	-	0.75x0.50	2.555	11.42	23.75	-	1 1/2"x8unc	4	20	10.00		0.75
18	15.59	7.87	41.86	17.72	19.69	4.45	-	0.87x0.55	3.146	12.99	25.75	-	1 5/8"x8unc	4	20	10.00		0.75
20	17.72	8.50	49.61	19.29	19.69	5.91	4.72	1.10x0.63	3.933	-	28.50	-	1 5/8"x8unc	4	24	11.73		0.91
24	21.50	9.13	56.88	23.03	22.83	6.30	4.72	1.10x0.63	3.933	-	33.00	-	1 7/8"x8unc	4	24	11.73		0.91



28inch & Larger
Application : Bracket



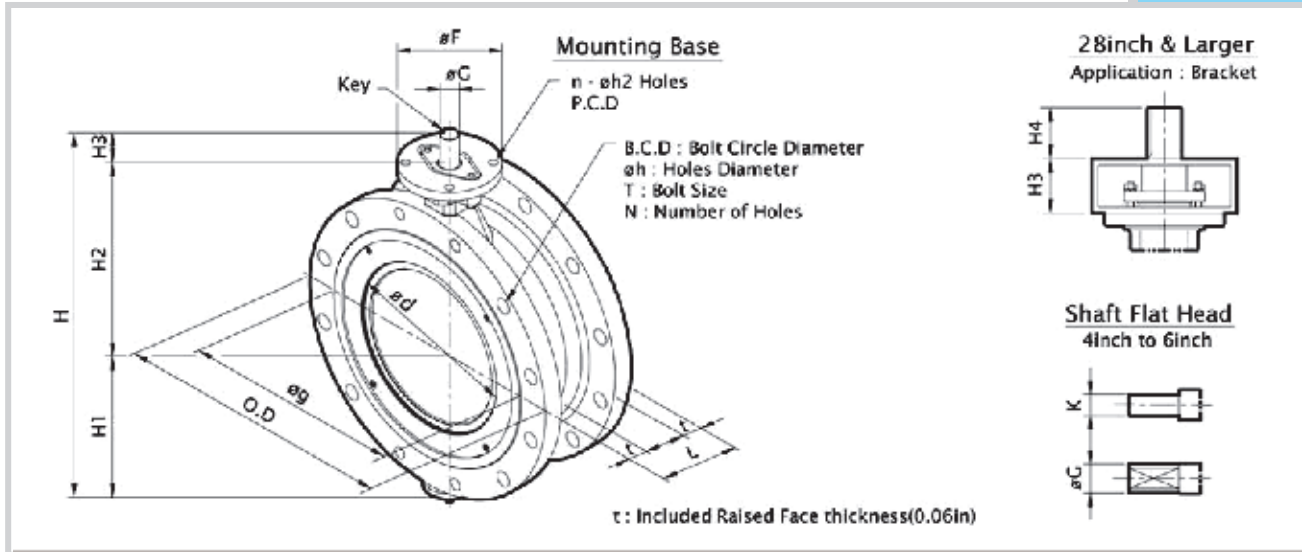
Shaft Flat Head
4inch to 6inch



CLASS 150

SIZE/ INCH	ød	L	O.D.	øg	t	H	H1	H2	H3	H4	K	øg	øf	B.C.D.	øh	T	N	P.C.D.	n	øh2
4	3.74	5.04	9.00	6.19	0.94	13.15	4.88	7.01	1.26	-	0.500	0.748	4.02	7.50	0.750	5/8"x11unc	8	3.25		0.43
5	4.65	5.51	10.00	7.31	0.94	14.41	5.55	7.60	1.26	-	0.500	0.748	4.02	8.50	0.875	3/4"x10unc	8	3.25		0.43
6	5.43	5.51	11.00	8.50	1.00	16.22	6.57	8.39	1.26	-	0.500	0.748	4.02	9.50	0.875	3/4"x10unc	8	3.25		0.43
8	7.40	5.98	13.50	10.62	1.12	18.39	7.68	9.45	1.26	-	0.626	0.874	5.98	11.75	0.875	3/4"x10unc	8	5.00		0.55
10	9.25	6.50	16.00	12.75	1.19	21.73	8.66	11.02	2.05	-	0.25x0.25	1.126	5.98	14.25	1.000	7/8"x9unc	12	5.00		0.55
12	10.83	7.01	19.00	15.00	1.25	24.64	10.43	12.20	2.01	-	0.25x0.25	1.126	5.98	17.00	1.000	7/8"x9unc	12	5.00		0.55
14	12.48	7.48	21.00	16.25	1.38	27.24	11.81	13.19	2.24	-	0.31x0.31	1.374	5.98	18.75	1.125	1"x8unc	12	5.00		0.55
16	14.13	8.50	23.50	18.50	1.44	31.85	13.39	15.47	2.99	-	0.50x0.50	1.874	8.03	21.25	1.125	1"x8unc	16	6.50		0.83
18	16.38	8.74	25.00	21.00	1.56	34.56	14.76	16.81	2.99	-	0.50x0.50	1.874	8.03	22.75	1.250	1 1/8"x8un	16	6.50		0.83
20	18.39	9.02	27.50	23.00	1.69	36.46	15.75	17.72	2.99	-	0.50x0.50	2.126	8.03	25.00	1.250	1 1/8"x8un	20	6.50		0.83
22	20.00	10.51	29.50	25.25	1.81	40.63	17.32	19.29	4.02	-	0.75x0.50	2.555	11.42	27.25	1.375	1 1/4"x8un	20	10.00		0.75
24	21.57	10.51	32.00	27.25	1.88	43.59	18.70	20.87	4.02	-	0.75x0.50	2.555	11.42	29.50	1.375	1 1/4"x8un	20	10.00		0.75
26	23.11	11.50	34.25	29.50	2.69	46.14	19.88	22.24	4.02	-	0.75x0.50	2.555	11.42	31.75	1.375	1 1/4"x8un	24	10.00		0.75
28	25.12	11.50	36.50	31.50	2.81	49.49	21.85	23.62	4.02	-	0.75x0.50	2.555	11.42	34.00	1.375	1 1/4"x8un	28	10.00		0.75
30	27.01	12.52	38.75	33.75	2.94	52.87	23.03	25.39	4.45	-	0.87x0.55	3.146	12.99	36.00	1.375	1 1/4"x8un	28	10.00		0.75
32	28.94	12.52	41.75	36.00	3.19	55.04	24.21	26.38	4.45	-	0.87x0.55	3.146	12.99	38.50	1.625	1 1/2"x8un	28	10.00		0.75
34	30.83	12.99	43.75	38.00	3.25	58.19	26.18	27.56	4.45	-	0.87x0.55	3.146	12.99	40.50	1.625	1 1/2"x8un	32	10.00		0.75
36	33.03	12.99	46.00	40.25	3.56	59.57	26.38	28.74	4.45	-	0.87x0.55	3.146	12.99	42.75	1.625	1 1/2"x8un	32	10.00		0.75
38	35.43	16.14	48.75	42.25	3.44	62.33	28.35	29.53	4.45	-	0.87x0.55	3.146	12.99	45.25	1.625	1 1/2"x8un	32	10.00		0.75
40	37.32	16.14	50.75	44.25	3.56	70.59	29.84	30.12	5.91	4.72	1.10x0.63	3.933	-	47.25	1.625	1 1/2"x8un	36	11.73		0.91
42	39.45	16.93	53.00	47.00	3.81	72.83	31.10	30.71	6.30	4.72	1.10x0.63	3.933	-	49.50	1.625	1 1/2"x8un	36	11.73		0.91
48	44.37	18.50	59.50	53.50	4.25	81.69	35.43	34.65	6.30	5.31	1.26x0.71	4.720	-	56.00	1.625	1 1/2"x8un	44	11.73		0.91

HIGH PERFORMANCE - FLANGES TYPE

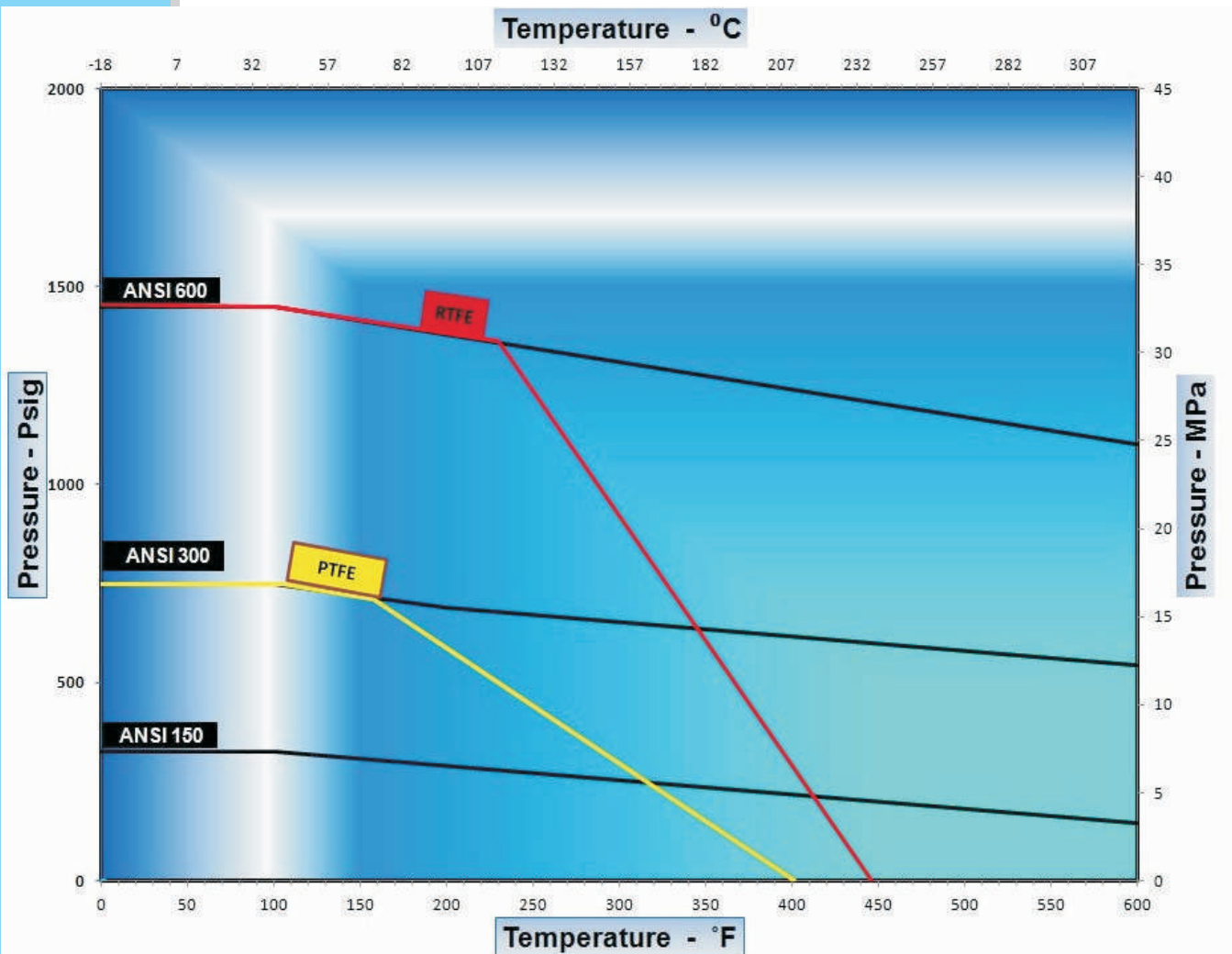


CLASS 300

SIZE/ INCH	ød	L	O.D.	øg	t	H	H1	H2	H3	H4	K	øG	øF	B.C.D.	øh	T	N	P.C.D.	n	øh2
4	3.74	5.04	10.00	6.19	1.25	13.15	4.88	7.01	1.26	-	0.500	0.748	4.02	7.88	0.875	3/4"x10unc	8	3.25		0.43
5	4.65	5.51	11.00	7.31	1.38	14.41	5.55	7.60	1.26	-	0.500	0.748	4.02	9.25	0.875	3/4"x10unc	8	3.25		0.43
6	5.39	5.51	12.50	8.50	1.44	16.85	6.93	8.66	1.26	-	0.500	0.748	4.02	10.62	0.875	3/4"x10unc	12	3.25		0.43
8	7.32	5.98	15.00	10.62	1.62	20.71	8.46	10.24	2.01	-	0.25x0.25	1.126	5.98	13.00	1.000	7/8"x9unc	12	5.00		0.55
10	9.06	6.50	17.50	12.75	1.88	22.96	9.53	11.42	2.01	-	0.25x0.25	1.126	5.98	15.25	1.125	1"x8unc	16	5.00		0.55
12	10.79	7.01	20.50	15.00	2.00	25.56	10.75	12.80	2.01	-	0.31x0.31	1.374	5.98	17.75	1.250	1 1/8"x8un	16	5.00		0.55
14	12.32	7.48	23.00	16.25	2.12	30.55	12.80	14.76	2.99	-	0.50x0.50	1.874	8.03	20.25	1.250	1 1/8"x8un	20	6.50		0.83
16	14.02	8.50	25.50	18.50	2.25	34.09	14.37	16.73	2.99	-	0.50x0.50	2.122	8.03	22.50	1.375	1 1/4"x8un	20	6.50		0.83
18	16.26	8.74	28.00	21.00	2.38	38.47	16.14	18.31	4.02	-	0.75x0.50	2.555	11.42	24.75	1.375	1 1/4"x8un	24	10.00		0.75
20	18.35	9.02	30.50	23.00	2.50	41.62	17.72	19.88	4.02	-	0.75x0.50	2.555	11.42	27.00	1.375	1 1/4"x8un	24	10.00		0.75
24	21.50	10.51	36.00	27.25	2.75	47.83	20.55	22.83	4.45	-	0.87x0.55	3.146	12.99	32.00	1.625	1 1/2"x8un	24	10.00		0.75
26	23.70	11.50	38.25	29.50	3.13	51.30	22.05	24.80	4.45	-	0.87x0.55	3.146	12.99	34.50	1.750	1 5/8"x8un	28	10.00		0.75
28	25.43	11.50	40.75	31.50	3.38	60.24	24.02	25.20	6.30	4.72	1.10x0.63	3.933	-	37.00	1.750	1 5/8"x8un	28	11.73		0.91
30	27.17	12.52	43.00	33.75	3.63	62.59	25.98	25.59	6.30	4.72	1.10x0.63	3.933	-	39.25	1.875	1 3/4"x8un	28	11.73		0.91
32	29.53	12.52	45.25	36.00	3.88	65.35	27.56	26.77	6.30	4.72	1.10x0.63	3.933	-	41.50	2.000	1 7/8"x8un	28	11.73		0.91
36	33.46	12.99	50.00	40.25	4.13	71.25	29.72	29.92	6.30	5.31	1.26x0.71	4.720	-	46.00	2.125	2"x8un	32	11.73		0.91
38	35.28	16.14	46.00	40.50	4.25	70.27	29.13	29.53	6.30	5.31	1.26x0.71	4.720	-	43.00	1.625	1 1/2"x8un	32	11.73		0.91
40	36.77	16.22	48.75	42.75	4.50	73.15	29.84	30.71	6.69	5.91	1.42x0.79	5.508	-	45.50	1.750	1 5/8"x8un	32	14.02		1.30
48	43.07	18.50	57.75	51.25	5.25	86.21	34.84	36.61	7.87	6.89	1.77x0.98	7.039	-	54.00	2.000	1 7/8"x8un	32	15.98		1.54

CLASS 600

		SOFT SEAT					METAL SEAT					FIRE SAFE SEAT									
SIZE/ INCH	ød	L	O.D.	øg	t	H	H1	H2	H3	H4	K	øG	øF	B.C.D.	øh	T	N	P.C.D.	n	øh2	
4	3.78	7.48	10.75	6.19	1.75	14.65	5.71	7.68	1.26	-	0.626	0.874	5.98	8.50	1.000	7/8"x9unc	8	5.00		0.55	
6	5.20	8.27	14.00	8.50	2.13	19.76	8.07	9.45	2.24	-	0.31x0.31	1.374	5.98	11.50	1.125	1"x8unc	12	5.00		0.55	
8	6.85	9.06	16.50	10.62	2.44	23.86	9.45	11.42	2.99	-	0.50x0.50	1.874	8.03	13.75	1.250	1 1/8"x8un	12	6.50		0.83	
10	8.78	9.84	20.00	12.75	2.75	27.20	11.02	13.19	2.99	-	0.50x0.50	1.874	8.03	17.00	1.375	1 1/4"x8un	16	6.50		0.83	
12	10.59	10.63	22.00	15.00	2.87	31.90	12.72	15.16	4.02	-	0.75x0.50	2.358	11.42	19.25	1.375	1 1/4"x8un	20	10.00		0.75	
14	11.81	11.42	23.75	16.25	3.00	35.72	14.57	17.13	4.02	-	0.75x0.50	2.555	11.42	20.75	1.500	1 3/8"x8un	20	10.00		0.75	
16	13.74	12.20	27.00	18.50	3.25	38.66	15.94	18.70	4.02	-	0.75x0.50	2.555	11.42	23.75	1.625	1 1/2"x8un	20	10.00		0.75	
18	15.59	12.99	29.25	21.00	3.50	41.86	17.72	19.69	4.45	-	0.87x0.55	3.146	12.99	25.75	1.750	1 5/8"x8un	20	10.00		0.75	
20	17.72	13.78	32.00	23.00	3.75	49.61	19.29	19.69	5.91	4.72	1.10x0.63	3.933	-	28.50	1.750	1 5/8"x8un	24	11.73		0.91	
24	21.50	15.35	37.00	27.25	4.25	56.88	23.03	22.83	6.30	4.72	1.10x0.63	3.933	-	33.00	2.000	1 7/8"x8un	24	11.73		0.91	



SCOPE

These terms and conditions apply to all Fastwell valve products, and supersedes all previously published terms and conditions.

Hereafter, Fastwell Fitting Industries shall be referred to as Fastwell.

Special terms and conditions printed on a buyer's order will only apply insofar as they conform to the terms and conditions detailed on these pages. Terms and conditions of an order that change or modify those on this sheet shall not be binding on Fastwell.

APPROVAL

All quotations, contracts, orders, or agreements are subject to approval and/or acceptance by the main office of Fastwell.

We reserve the right to correct clerical or stenographic errors in quotations, orders, invoices, and other contracts, agreements, or documents.

PRICES

Possession of price lists will not be accepted by Fastwell as an obligation, or offer to sell the goods listed therein to anyone.

All prices contained therein are subject to change without notice, and supersede all previous lists. All orders will be invoiced at prices in effect at the time of shipment unless quoted in writing.

CHANGES

Orders cannot be cancelled or specifications be changed without the consent of Fastwell and then only in terms indemnifying Fastwell against loss.

QUOTATIONS

Goods quoted F.O.B. our service center are subject to prior sale. Prices quoted are valid only for the duration indicated in the quotation. Quoted prices supersede all previous prices, quotations, or contracts, and are subject to change without notice.

CANCELLATIONS

Orders placed with us cannot be cancelled without our prior written consent. A cancellation charge will be applicable as outlined in our quotation.

CLAIMS

All claims for shortages, corrections, or deductions must be made within 10 days after receipt of goods. Responsibility for goods lost or damaged in transit rests with carrier, and claims should be filed with the carrier by the consignee. Delivery of material to a common carrier shall be considered delivery to the buyer, and shall be at the buyers risk thereafter.

DELIVERY DELAYS

We assume no responsibility for delays in delivery, or defaults resulting from strikes, work stoppages, fires, floods, accidents, war, inability to obtain materials, or any other cause unavoidable and beyond our control.

TAXES

Fastwell quotations and/or contracts do not include any municipal, state, or federal sales, excise, use occupational, or other taxes, and any such tax, if paid by us will be charged to the purchaser.

CATALOG ILLUSTRATIONS

Catalog illustrations are actual representations of a certain size of each product line, but do not necessarily represent all sizes in details. We reserve the right to institute changes in materials, designs, and specifications without notice in keeping with our policy of continuing product improvement.

CATALOG WEIGHTS

Catalog weights represent average weights of products and are in no sense guaranteed.

RETURNS

See Return Goods Policy on next page.

SPECIAL ORDERS

Orders for special goods must be in writing and accompanied with detailed prints and/or sets of specifications, unless specifications on the orders are definite and complete. Orders will not be entered with the factory unless this is adhered to. Cancellation charges will be as outlined in our quotations.

FREIGHT TERMS

All shipments are F.O.B. our service centers. See current bulletin for freight allowance.

WARRANTY

See warranty on reverse side

RETURN GOODS POLICY

This policy supersedes all other policies for return goods.

I. Goods returned at customers request:

- A. Material must be:
 1. Of our manufacture.
 2. In clean, new and saleable condition. It must have been stored inside out of the weather.
 3. Shipped from one of our service centers within the 12 calendar months preceding the request for return, and the return will not cause inventory to exceed maximum allowable levels.
 4. Personally inspected by a Fastwell representative prior to its return.
 5. Special or non-standard items are non-returnable.
- B. Return shipments must be prepaid.
- C. Credit will be allowed at invoice price, less 25% handling cost, and less any freight paid by Fastwell
- D. A Return Goods Card must be furnished by a Fastwell representative after inspection of the material, and must be returned with the shipment.
- E. Shipments received without a Return Goods Authorization Card will be refused. Customer will be responsible for any storage and/or return freight.
- F. Material returned which is not of Fastwell manufacture, not in clean and saleable condition, or not authorized for return will be returned to the customer freight collect.

II. Goods returned because of an error by Fastwell

- A. Material must be in a clean, new, saleable condition.
- B. Return shipment should be made freight collect.
- C. Full credit will be allowed.
- D. Customer must receive Return Goods authorization prior to the return of the material. Return Goods Authorization Card must accompany shipment. Shipments received without Return Goods Authorization Card will be refused. Return Goods Authorization Card should be attached to the packing list.

All requests to return material to **Fastwell Fitting Industries** must be submitted in writing to our National Sales Manager for authorization.

WARRANTY

Fastwell Fitting Industries warrants each product sold, if the products are of our manufacture, against defects in material and workmanship under normal use and service for a period of one year after date of shipment.

This warranty is made to the buyer only, and does not extend to any other party. The obligation of Fastwell Valve International, Inc. under this warranty is limited to: (a) replacement of any part or parts proven defective in material or workmanship, (b) repair of the product F.O.B. the factory or service center, (c) refund of the purchase price. In the case of product or parts not wholly of Fastwell manufacture, Fastwell liability under this warranty shall be limited to the extent of Fastwell recovery from the manufacturer of such parts under its warranty to Fastwell. This warranty does not extend to any claims for labor, consequential damages, down time, or any other loss, damage, or expense of any kind arising out of the defect. We do not allow claims for unauthorized repairs, labor, or material. We are not responsible for loss of use, personal injury, lost profits, or any other damages whatsoever in connection with the warranties set forth.

No warranty shall apply to any product which has been modified or changed in design or function after leaving Fastwell facilities or which is misused or operated beyond its design capabilities, or used for other than its intended purpose. Purchasers of Fastwell products should consult knowledgeable advisors in the selection of product type and material of construction for their specific use. The buyer assumes all risk of this selection.

The buyer shall permit Fastwell or its authorized representative to inspect the product so that it may determine its obligation. Fastwell shall be entitled to the return of the defective product or parts. Buyer must notify Fastwell promptly upon discover of any claimed defect.

No material may be returned without first obtaining written permission from **Fastwell Fitting Industries**



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