

ORDERING INFORMATION

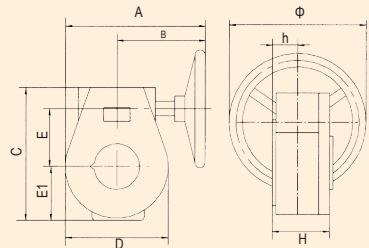
① BODY MATERIAL
4100 = WAFER, ASTM A536 DUCTILE IRON
4800 = LUG, ASTM A536 DUCTILE IRON

② DISC MATERIAL
D = DUCTILE IRON/NICKEL PLATED
S = 316 STAINLESS STEEL

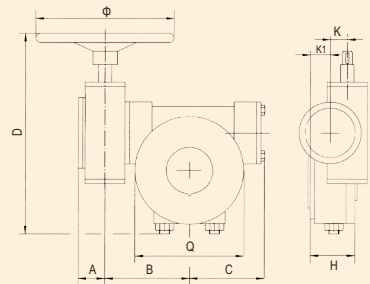
③ SEAT MATERIAL
B = BUNA-N
E = EPDM
T = TFE

④ OPERATOR*
L = 10 POSITION LEVER
G = GEAR

WORM GEAR I



WORM GEAR II



WORM GEAR I

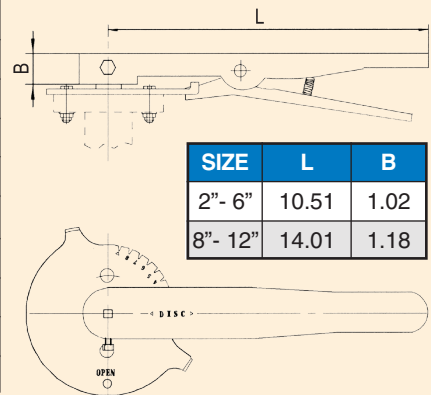
SIZE	A	B	C	D	E	H	φ	h	E1	Toque N/M	Ratio
2"-6"	8.38	6.69	4.92	4.13	1.77	2.48	5.90	1.49	2.08	170	24:1
8"-11"	12.20	9.25	6.85	5.98	2.48	3.07	11.81	1.65	2.99	750	30:1
12"-14"	12.24	8.89	7.76	6.69	3.18	3.14	11.81	1.59	3.18	1200	50:1

WORM GEAR II

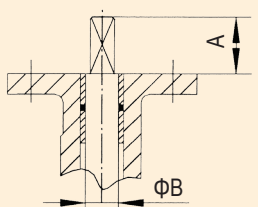
SIZE	A	B	C	D	H	φ	K	Q	K1	Toque (N/M)	Ratio
16"-18"	2.28	6.29	5.23	16.53	4.13	11.81	2.48	7.87	1.96	2500	384:1
20"	2.28	7.28	6.29	18.89	4.33	14.96	2.48	9.84	2.24	3000	352:1
24"	2.28	7.28	6.29	20.47	4.92	14.96	2.48	11.29	2.48	4000	416:1

2" - 12"

SIZE	A	B	C ⁰ _{-0.06}	M ^{-0.03} _{-0.10}	φ E	φ B	φ F	Bolt
2"	50	1.18	0.5 ⁰ _{-0.043}	0.39	2.55	1.96	0.27	M6
2.5"	65	1.18	0.5 ⁰ _{-0.043}	0.39	2.55	1.96	0.27	M6
3"	80	1.18	0.5 ⁰ _{-0.043}	0.39	2.55	1.96	0.27	M6
4"	100	1.18	0.62 ⁰ _{-0.052}	0.47	3.54	2.75	0.41	M8
5"	125	1.18	0.75 ⁰ _{-0.052}	0.55	3.54	2.75	0.41	M8
6"	150	1.18	0.75 ⁰ _{-0.052}	0.55	3.54	2.75	0.41	M8
8"	200	1.41	0.87 ⁰ _{-0.052}	0.67	4.92	4.01	0.49	M10
10"	250	1.41	1.12 ⁰ _{-0.052}	0.89	4.92	4.01	0.49	M10
12"	300	1.41	1.25 ⁰ _{-0.062}	0.94	4.92	4.01	0.49	M10



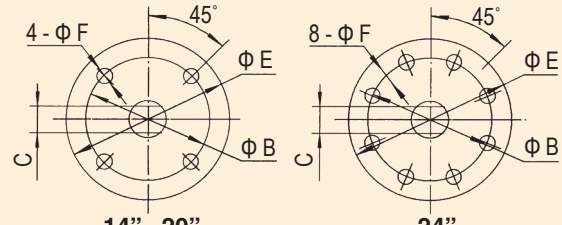
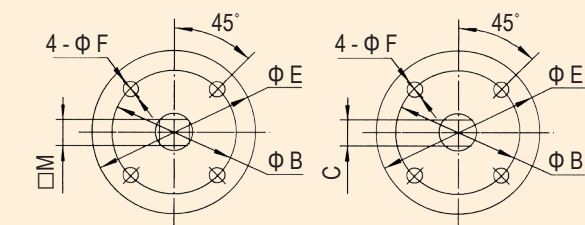
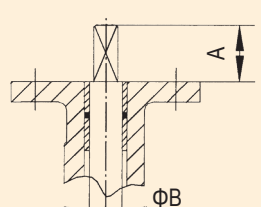
2" - 12"



14" - 24"

SIZE	A	B	C	φ E	φ B	φ F	Bolt
14"	1.77	1.25 ⁰ _{-0.062}	0.94 ⁰ _{-0.06}	4.92	4.01	0.49	M10
16"	2.00	1.31 ⁰ _{-0.062}	1.06 ⁰ _{-0.06}	6.89	5.51	0.70	M16
18"	2.00	1.49 ⁰ _{-0.062}	1.06 ⁰ _{-0.06}	6.89	5.51	0.70	M16
20"	2.51	1.62 ⁰ _{-0.062}	1.26 ⁰ _{-0.07}	6.89	5.51	0.70	M16
24"	2.75	1.99 ⁰ _{-0.074}	1.41 ⁰ _{-0.08}	11.81	10.00	0.70	M16

14" - 24"



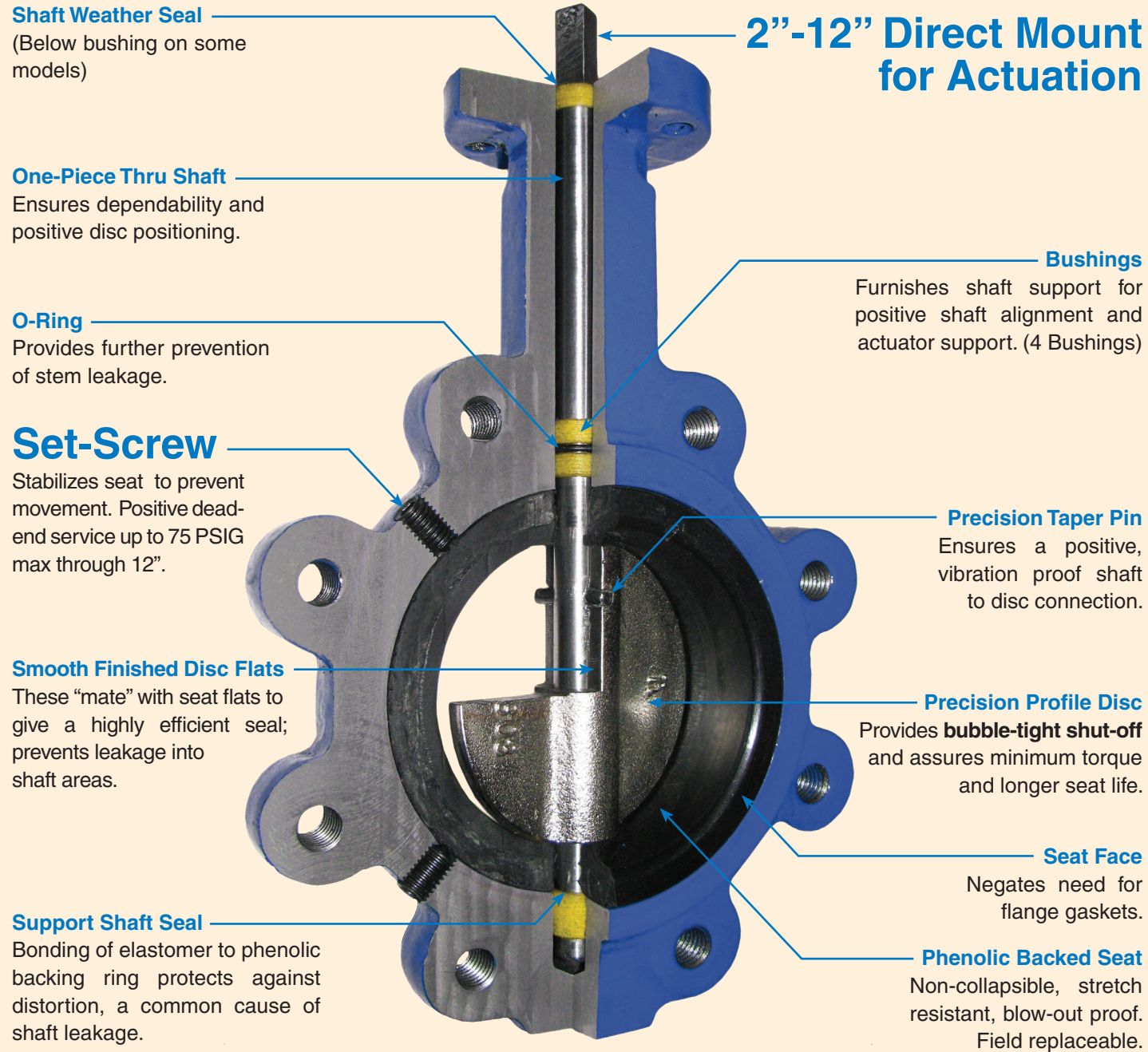
"THE RIGHT CHOICE"

Butterfly Valves



Resilient Seated Butterfly Valves
Figures 4100/4800
Industrial Application

Resilient Seated Butterfly Valves



CONSTRUCTION SPECIFICATIONS:

- Body:** Ductile iron (ASTM A536)
- Disc:** Ni-coated ductile iron, 316 stainless steel
- Stem:** 416 stainless steel
- Resilient Seat:** EPDM, Buna-N, Teflon
- Stem Bushings:** Acetal
- Disc Screws:** 316 stainless steel
- O-Ring:** EPDM, Buna-N
- Stem Packing:** EPDM, Buna-N
- Set Screws:** Carbon steel

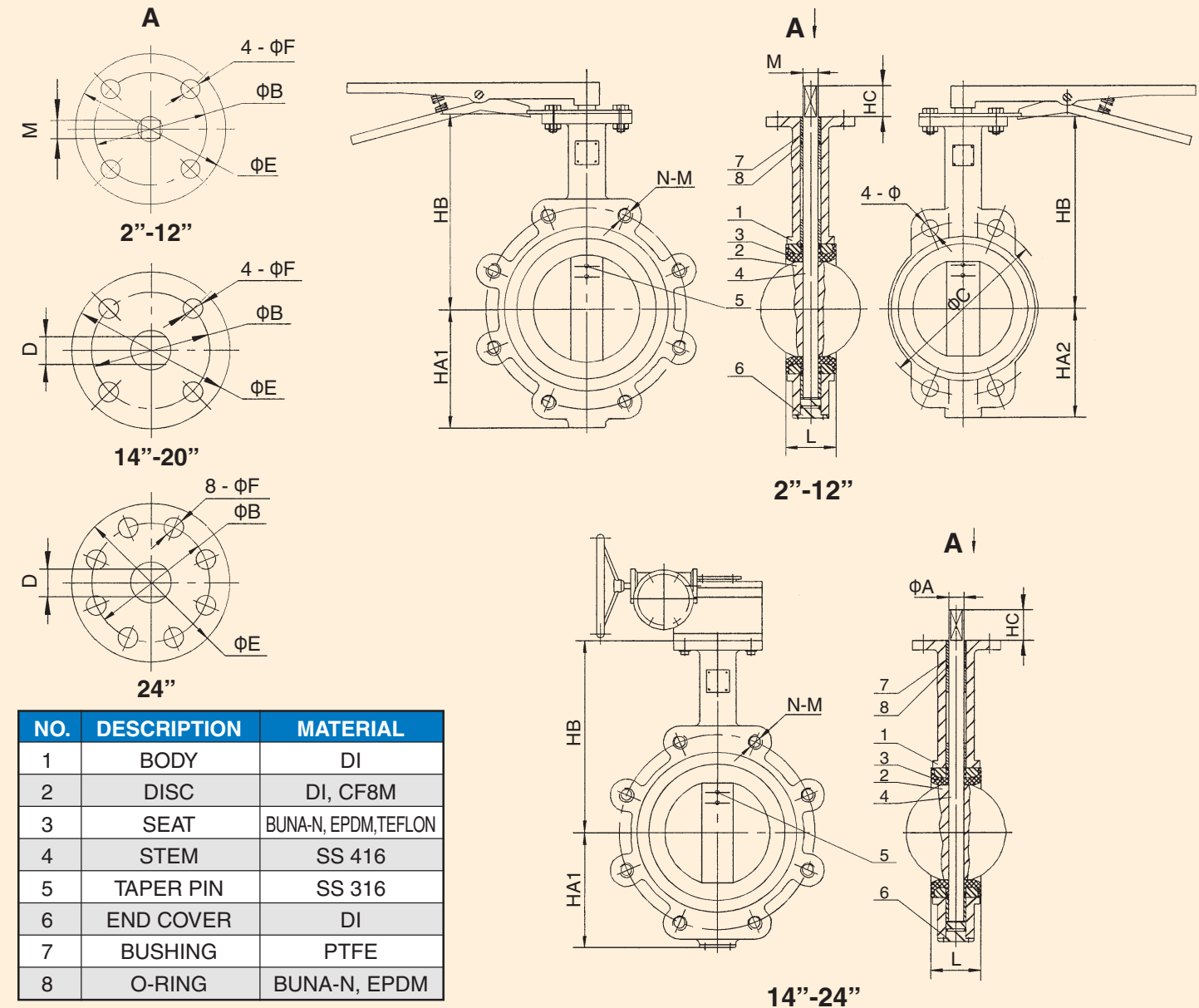
Phenolic Backed Seat provides the following advantages:

1. The movement of the elastomer against the body assures a completely dry back.
2. Wide flange-face sealing area provides a tight flange-to-valve seal without the use of gaskets.
3. The Controlled-Torque Seat allows tight shut-off with minimum movement of the seat material to reach the closed position in the center of the seat for ease of actuation.
4. The wide sealing area around the shaft provides a positive seal isolating the shaft from the media.

Pressure 2"-12": 200 PSI / 14" and above: 150 PSI, see back page for ordering instructions.
 Sizes 2"-12": Install between Std. ANSI Class 125/150 Flanges. Conforms to MSS-SP67, MSS-SP25, API-609
 Liner Temperature Ratings °F: Buna-N (Standard): +10 to 180 / EPDM (Standard): -30 to 275 / Teflon: -40 to 400

Note: Manufacturer reserves the right to modify dimensions, materials, or design. Contact factory for certification.

Valve Dimensions



NO.	DESCRIPTION	MATERIAL
1	BODY	DI
2	DISC	DI, CF8M
3	SEAT	BUNA-N, EPDM,TEFLON
4	STEM	SS 416
5	TAPER PIN	SS 316
6	END COVER	DI
7	BUSHING	PTFE
8	O-RING	BUNA-N, EPDM

INCH	HA1	HA2	HB	HC	L	ΦC	4 - Φ	N - M	ΦA	D	M**	ΦE	ΦB***	ΦF	TORQUE*	WT	
																WAFER	LUG
2"	2.99	2.99	6.36	1.26	1.77	4.75	0.75	4-5/8"-11	--	--	9	2.56	5	0.27	117	6	7
2.5"	3.15	3.50	6.89	1.26	1.89	5.50	0.75	4-5/8"-11	--	--	9	2.56	5	0.27	189	7	8
3"	3.74	3.74	7.12	1.26	1.93	6.00	0.75	4-5/8"-11	--	--	9	2.56	5	0.27	244	10	14
4"	4.49	4.49	7.87	1.26	2.16	7.50	0.75	8-5/8"-11	--	--	11	3.54	7	0.41	390	13	26
5"	4.92	4.92	8.38	1.26	2.28	8.50	0.88	8-3/4"-10	--	--	14	3.54	7	0.41	598	18	28
6"	5.51	5.51	8.86	1.26	2.32	9.50	0.88	8-3/4"-10	--	--	14	3.54	7	0.41	875	20	31
8"	6.81	6.97	10.23	1.41	2.52	11.75	0.88	8-3/4"-10	--	--	17	4.92	10	0.49	1430	32	49
10"	7.99	7.99	11.49	1.41	2.75	14.25	1.00	12-7/8"-9	--	--	22	4.92	10	0.49	2275	42	72
12"	9.33	9.52	13.26	1.41	3.15	17.00	1.00	12-7/8"-9	--	--	22	4.92	10	0.49	3250	70	105
14"	10.98	10.51	14.48	1.77	3.15	18.75	1.125	12-1"-8	1.25	0.94	--	4.92	10	0.49	3500	95	155
16"	11.97	11.73	15.74	2.00	3.54	21.25	1.125	16-1"-8	1.31	1.06	--	6.89	14	0.71	5500	117	195
18"	14.25	12.52	16.61	2.00	4.29	22.75	1.25	16-1 1/8"-7	1.50	1.06	--	6.89	14	0.71	8200	165	230
20"	14.49	13.74	18.85	2.52	5.31	25.00	1.25	20-1 1/8"-7	1.62	1.26	--	6.89	14	0.71	10000	275	396
24"	17.48	16.14	22.12	2.80	6.14	29.50	1.375	20-1 1/4"-7	1.99	1.41	--	11.81	--	0.71	18200	440	610

*Torque values in inch-pounds. All torque values shown on chart are for non-lubricating media & on-off service. For dry services, multiply by 1.6. Torques may vary; consult factory.
 **Dimension "M" in mm.
 *** B = FO Pattern