STONETOWN

SR Series

Butterfly Valves

RPS 0160308 / 01

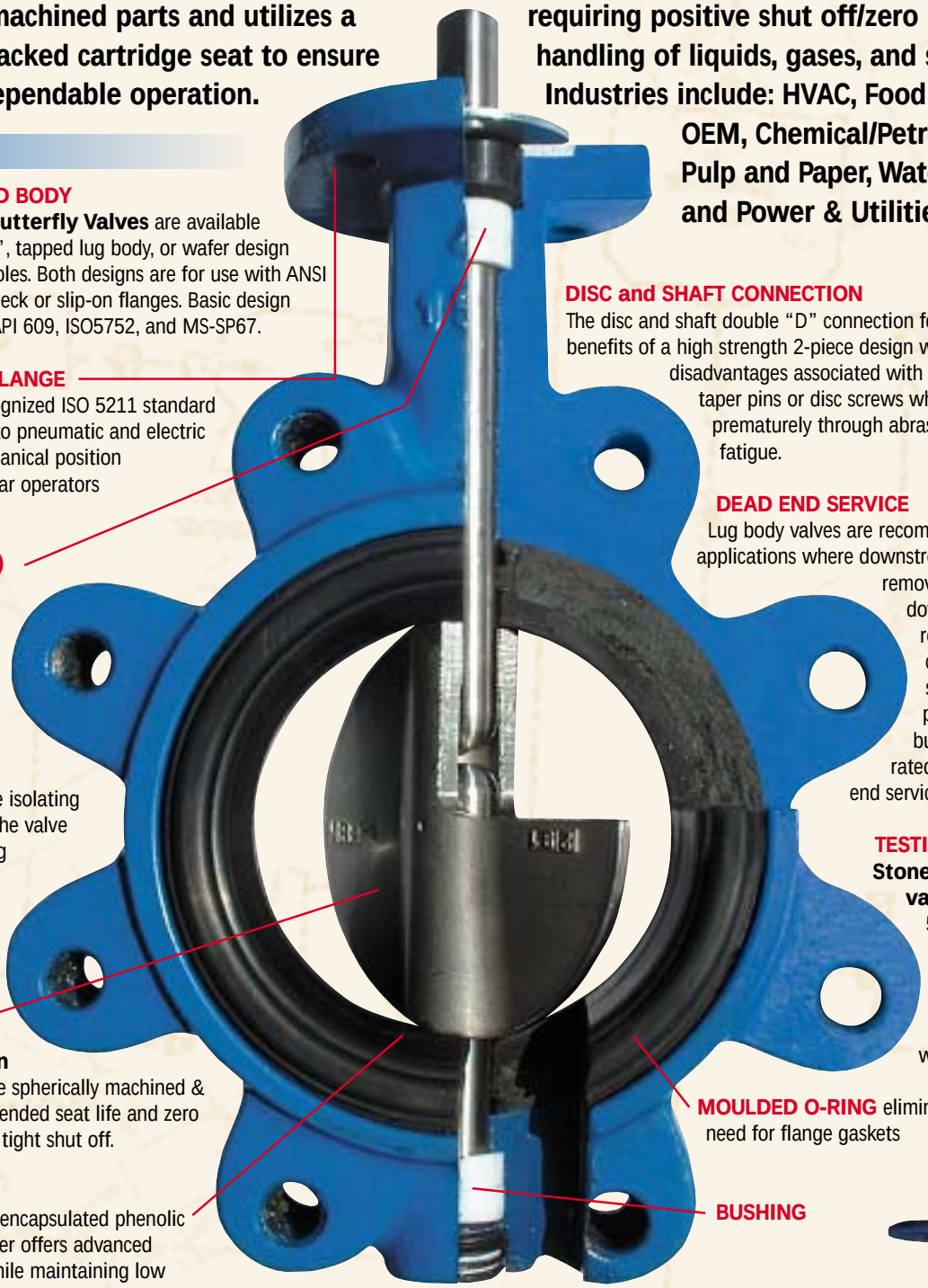
CERTIFICATE NO : K981064

CRN: 0C0569.9C

STONETOWN Butterfly Valves

Quality is designed into every Stonetown Butterfly Valve. The SR series features precision machined parts and utilizes a phenolic backed cartridge seat to ensure years of dependable operation.

Stonetown Butterfly Valves meet the rigorous requirements of industrial applications requiring positive shut off/zero leakage in the handling of liquids, gases, and slurries. Industries include: HVAC, Food and Beverage, OEM, Chemical/Petrochemical, Pulp and Paper, Water Purification, and Power & Utilities.



EPOXY CORED BODY
Stonetown Butterfly Valves are available in sizes 2"– 24", tapped lug body, or wafer design with locating holes. Both designs are for use with ANSI 125/150 weld-neck or slip-on flanges. Basic design complies with API 609, ISO5752, and MS-SP67.

MOUNTING FLANGE
Universally recognized ISO 5211 standard for adaptation to pneumatic and electric actuators, mechanical position transmitters, gear operators and handles.

BUSHINGS (2)
Teflon stem bushings reduce operating torque as well as provide maximum shaft support and alignment while isolating the stem from the valve body, preventing corrosion in the stem journal and ultimately stem seizure.

DISC
All **Stonetown** disc castings are spherically machined & polished for extended seat life and zero leakage/bubble tight shut off.

SEAT
The completely encapsulated phenolic backed elastomer offers advanced performance while maintaining low torque. The seat incorporates primary seals that mate with the hub portion of the disc. The upper and lower shaft journals incorporate a moulded double O-ring secondary seal.

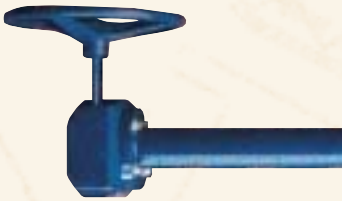
DISC and SHAFT CONNECTION
The disc and shaft double "D" connection features all the benefits of a high strength 2-piece design without the disadvantages associated with designs that utilize taper pins or disc screws which often fail prematurely through abrasion, corrosion, or fatigue.

DEAD END SERVICE
Lug body valves are recommended for applications where downstream piping must be removed. Placement of a downstream flange is recommended to comply with suggested safety practices. Lug style butterfly valves are rated for 150 PSI in dead end service.

TESTING
Stonetown butterfly valves conform to API 598 and BS5155. All valves are subjected to a body pressure test of 150% and shell 110% of working pressure.

MOULDED O-RING eliminates the need for flange gaskets

BUSHING



STONETOWN SR Series

How to Order

SIZE						
	[A]	[B]	[C]	[D]	[E]	[F]

[A] MATERIAL	[B] BODY TYPE	[C] DISC MATERIAL	[D] STEM MATERIAL	[E] SEAT	[F] OPERATOR
1 Cast Iron	1 Wafer Style	1 304 S.S.	1 304 S.S.	1 EPDM	0 Bare Shaft
2 Ductile Iron	2 Lug Style	2 D.I. Nickel Plated	2 316 S.S.	2 Buna-N (NBR)	1 10 Position Handle
3 Cast Steel		3 316 S.S.	3 410 S.S.	3 White EPDM	2 Infinite position handle
4 Stainless Steel		4 304L S.S.	4 K-Monel	4 Viton	3 Gear Operator
5 Bronze		5 316L S.S.	5 Special	5 Silicon	4 Double Acting Pneumatic
6 Aluminum Bronze		6 Bronze		6 High Temp EPDM	5 Spring Return Pneumatic
7 Aluminum		7 Aluminum Bronze		7 Neoprene	X Special
		8 Special		8 Hypalon	
				9 Natural Rubber	
				10 Teflon	

Operating Characteristics for Sizing

The size of butterfly valve used for control purposes should be calculated on the basis of the operating characteristics. In order to achieve optimum control, the flow coefficient (Cv) ▶ needs to be considered.

Cv is the volume of water flow in U.S. gallons per minute which passes through the valve giving a pressure drop of 1 PSI at a temperature of 68 degrees F.

Valve Sizing Coefficient - Cv Values for STONETOWN Butterfly Valves

SIZE	Disc Position (degrees)							
	20	30	40	50	60	70	80	90
2"	8	9	18	28	55	72	110	135
2½"	10	15	27	44	85	110	168	210
3"	15	23	39	65	130	165	250	310
4"	27	41	71	115	230	300	465	540
5"	58	86	150	245	480	610	980	1100
6"	96	140	245	400	785	1010	1615	1910
8"	165	245	410	685	1275	1715	2670	3185
10"	255	380	650	1130	2100	2700	4250	4900
12"	370	540	950	1570	3050	3950	5950	7350
14"	450	750	1300	2210	4080	5610	8078	11200
16"	640	900	1720	2790	5000	7650	10770	12900
18"	730	1250	2295	3700	7050	9180	13900	17500
20"	910	1595	2850	4630	8600	11500	17540	22400
24"	1250	2290	4000	6090	12500	16500	23590	28300

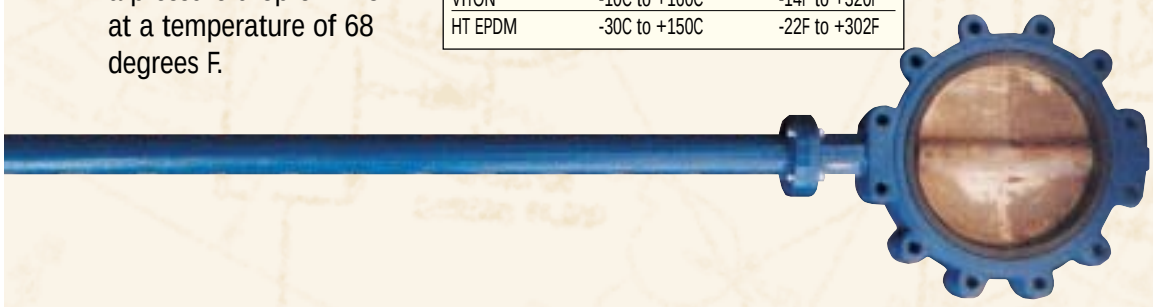
Working Temperatures		
EPDM	-30C to +110C	-22F to +230F
BUNA-N	-20C to +90C	-4F to +194 F
VITON	-10C to +160C	-14F to +320F
HT EPDM	-30C to +150C	-22F to +302F

Torques (Lb.-Ins.) Required to Operate Stonetown Butterfly Valves

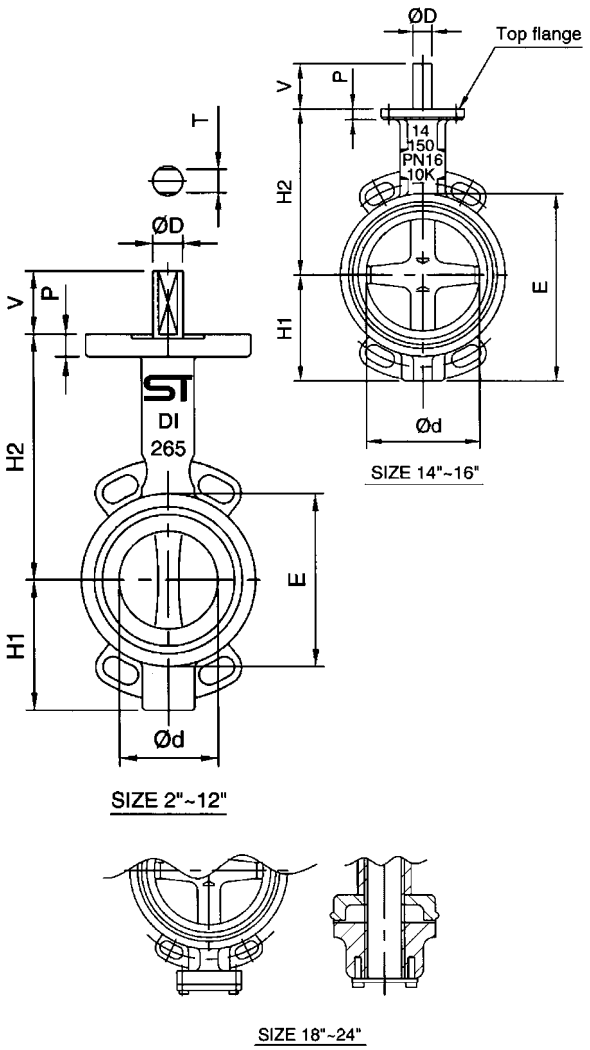
SIZE	50 PSI	150 PSI	225 PSI
2"	101	101	110
2½"	158	158	170
3"	259	259	270
4"	345	371	390
5"	453	518	619
6"	576	619	734
8"	1037	1094	1253
10"	1253	1454	1670
12"	1700	1771	1829
14"	1964	6132	7956
16"	2400	8016	10404
18"	3240	10776	14004
20"	4008	13296	17292
24"	6468	21432	27864

Torques listed are for general, non-corrosive services such as water, lubricating type hydrocarbons, and most media at temperatures of 0~82C (32~180F)

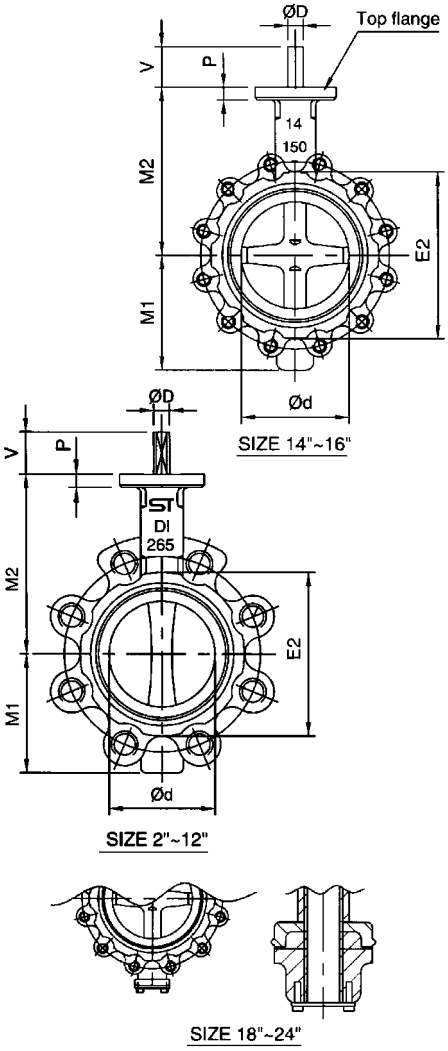
Contact your Stonetown representative for specific application torques.

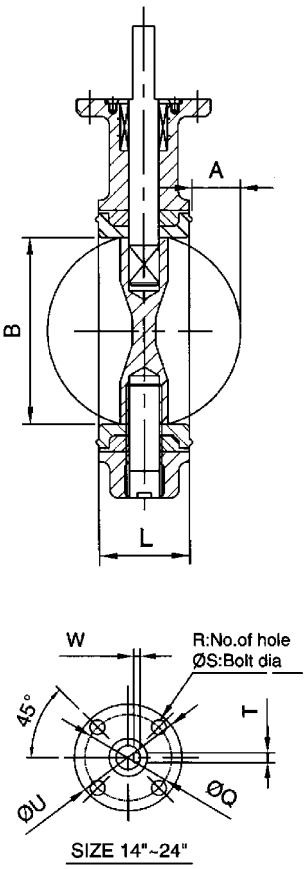


WAFER-CARTRIDGE TYPE



LUG-CARTRIDGE TYPE





NOTE:

1. Basic Design: BS5155, ISO5752 AP1609, MS-SP67, DIN3202 K1
2. TOP FLANGE: ISO5211
3. Cartridge type "TEFLON" seat available upon request

SIZE	STEM				TOP FLANGE						OUTLINE DIMENSION									
	OD	T	V	W	P	OQ	R	OS	OU	REF	L	Od	H1	H2	E	A	B	M1	M2	E2
2"	0.55	0.39	1.30		0.55	2.76	4	0.35	3.54	F07	1.69	2.05	2.62	5.28	3.90	0.18	1.93	2.95	5.12	3.66
	0.55	0.39	1.30		0.55	1.97	4	0.28	3.54	F05	1.69	2.05	2.62	5.28	3.90	0.18	1.93	2.95	5.12	3.66
2½"	0.55	0.39	1.30		0.55	2.76	4	0.35	3.54	F07	1.81	2.56	2.80	5.63	4.33	0.41	2.52	3.15	5.39	4.25
	0.55	0.39	1.30		0.55	1.97	4	0.28	3.54	F05	1.81	2.56	2.80	5.63	4.33	0.41	2.52	3.15	5.39	4.25
3"	0.55	0.39	1.30		0.55	2.76	4	0.35	3.54	F07	1.81	3.15	3.27	5.71	5.12	0.69	3.11	3.74	6.14	4.80
	0.55	0.39	1.30		0.55	1.97	4	0.28	3.54	F05	1.81	3.15	3.27	5.71	5.12	0.69	3.11	3.74	6.14	4.80
4"	0.63	0.47	1.30		0.63	2.76	4	0.35	3.54	F07	2.05	3.94	3.74	6.56	5.98	0.96	3.90	4.33	6.69	5.91
	0.63	0.47	1.30		0.63	1.97	4	0.28	3.54	F05	2.05	3.94	3.74	6.56	5.98	0.96	3.90	4.33	6.69	5.91
5"	0.75	0.59	1.30		0.63	2.76	4	0.35	3.54	F07	2.20	4.92	4.33	7.66	7.09	1.40	4.88	4.84	7.28	7.09
6"	0.75	0.59	1.30		0.63	2.76	4	0.35	3.54	F07	2.20	5.91	4.88	8.13	7.99	1.87	5.87	5.63	7.99	8.19
8"	0.75	0.59	1.30		0.67	2.76	4	0.35	3.54	F07	2.36	7.80	6.42	9.41	10.00	2.78	7.83	6.61	9.37	10.20
10"	0.87	0.71	1.38		0.79	4.02	4	0.47	4.92	F10	2.68	9.76	8.94	11.38	12.87	3.62	9.80	7.99	10.63	12.52
12"	1.10	0.87	1.38		0.79	4.02	4	0.47	4.92	F10	3.07	11.73	9.92	12.56	14.49	4.41	11.77	9.53	12.20	14.57
14"	1.10	0.39	2.76	0.2	0.79	4.02	4	0.47	4.92	F10	3.07	13.03	10.41	13.60	16.34	4.96	12.83	10.41	13.60	16.34
16"	1.26	0.39	2.95	0.2	0.91	5.51	4	0.71	6.89	F14	4.02	14.96	12.03	13.76	18.31	5.49	14.57	12.03	13.76	18.31
18"	1.50	0.47	2.95	0.2	0.91	5.51	4	0.71	6.89	F14	4.49	16.93	13.78	15.75	20.98	6.36	16.54	13.78	15.75	20.98
20"	1.77	0.47	3.35	0.2	0.91	6.50	4	0.87	8.27	F16	5.00	18.98	14.96	17.32	22.83	7.15	18.50	14.96	17.32	22.83
24"	2.17	0.55	3.35	0.2	0.91	6.50	4	0.87	8.27	F16	6.06	22.83	17.32	20.08	26.77	8.35	21.89	17.32	20.08	26.77

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