

# Lower Pressure (ASME Class 150#-900#) Bellows Seal Valves: Engineered for the demanding environments and regulations of severe service process control



Canadian Registration  
Numbers for all provinces

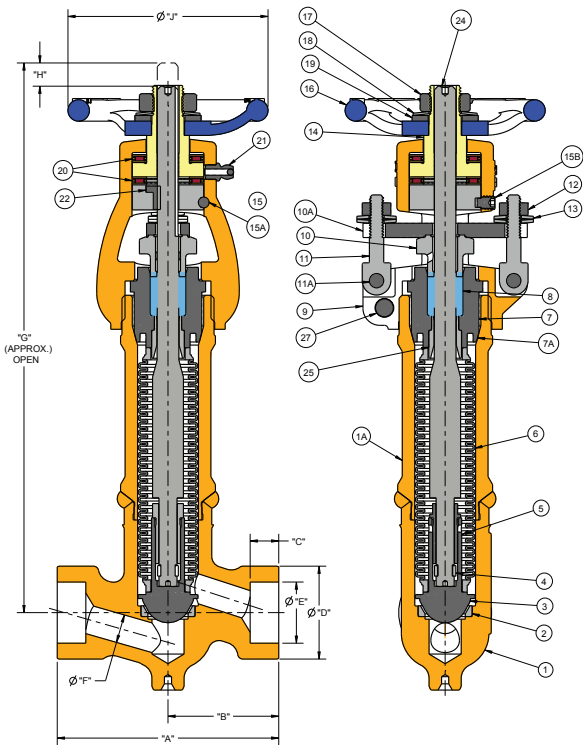


## APPLICATION

When leakage to the environment is not an option, the ingenious design and rugged construction of the Conval Bellows Seal Valve provides continuous, problem-free service. Whether your application media is toxic, corrosive, caustic or just plain expensive, Conval Bellows Seal Valves provide the optimal solution.

## FEATURES

- **General Design and Wall Thickness:** ASME B16.34/API 602
- **Leak Proof Integrity:** Triple Redundancy via Bellows, Live Loaded Packing and Backseat
- **Low Weight and Seismic Profile:** Ideal for Nuclear Applications
- **Bellows Inspection and Test:** MSS SP-117/API 602
- **Cycle Life (900# Class):** Greater than 10,000 (1/2"-2"), 3,000 (2-1/2"-4")
- **Helium Leak Test:** Mass Spectrometer with less than 1x10<sup>-6</sup> cc/sec leakage
- **Bellows Material:** Hydroformed, Multi-Ply Inconel 625 (other materials available)
- **Size Range:** ½" – 4" NPS
- **Pressure Range:** ASME Class 150#-900#\*
- **End Connection:** Socket Weld, Butt Weld, Flange and Threaded
- **Configuration:** Y, T and Angle Pattern
- **In-Line Renewable:** Can be serviced in-line, resulting in shortened downtime and industry-leading, low life cycle costs



NO.	NAME	QTY	CARBON STEEL BODY	ALLOY STEEL BODY	STAINLESS STEEL BODY
1	BODY	1	ASME SA-105	ASME SA182-F22 class 3	ASME SA182-F316/316L
1A	BODY EXTENSION	1	ASME SA-106 Gr B ASME SA696 Gr C	ASME SA335 Gr P22 ASME SA182-F22 class 3	ASME SA312 Gr Type 316 ASME SA479 Type 316
2	SEAT	1	ASTM A5387 GR. 6		ASTM A732 GR. 21
3	DISC	1		ASTM B 815	
4	SPLIT RING	2		ASME SA479 TYPE XM-19H	
5	RETAINER	1		ASME SA479 Type 316	
6	BELLOWS ASSY	1		ASTM B443, UNS N06625	
7	BONNET	1	ASME SA479 TYPE 410		ASME SA479 TYPE 316
7A	BONNET SEAL RING				ASTM A732 GR. 21
8	PACKING SET	1		BRAIDED CARBON/GRAPHITE DIE FORMED FLEXIBLE GRAPHITE	
9	YOKE	1	ASME SA-105	ASME SA182-F22 class 3	ASME SA182-F316/316L
10	GLAND	1		ASTM A479 TYPE 316	
10A	GLAND PLATE	1		ASTM A240 TYPE 316	
11	SWING BOLT	2		ASTM A320 TYPE 303	
11A	GROOVED PIN	2		18-8 STAINLESS STEEL	
12	GLAND PLATE NUT	2		18-8 STAINLESS STEEL	
13	BELLEVILLE WASHER	4		301 STAINLESS STEEL	
14	STEM NUT	1		ASME SB-150, UNS C64200	
15	BEARING RETAINER	1		ASME SB-150, UNS C64200	
15A	GROOVED PIN	1		18-8 STAINLESS STEEL	
16	HANDWHEEL	1		ASTM A536	
17	JAM NUT	1		18-8 STAINLESS STEEL	
18	BELLEVILLE WASHER	1		301 STAINLESS STEEL	
19	FLAT WASHER	1		ASME B18.21.1 18-8 STAINLESS	
20	BEARING SET	2		BEARING STEEL	
21	GREASE FITTING	1		303 STAINLESS STEEL	
22	KEY	1		AMS 5596 718	
23	ID. TAG (NOT SHOWN)	1		304 STAINLESS STEEL	
24	STEM	1		ASTM SB637, UNS N07718	ASME SA479 TYPE XM-19H
25	STEM GUIDE	1		ASTM A732 GR. 21	
26	WASHER	1		18-8 STAINLESS STEEL	
27	CLAMP BOLT	1		18-8 STAINLESS STEEL	

SIZE NPS DN	PRESSURE CLASS	A	B	C	D	E	F	G	H	J	CV	WEIGHT LB KG	SIZE CODE
1/2	900	3.88	1.94	.38	1.63	.86	.38	9.63	0.38	3.50	3.0	6.2	3C
15		98	49	10	41	22	10	245	10	89		2.8	
3/4	900	3.88	1.94	.50	1.63	1.07	.50	9.63	0.38	3.50	3.7	6.2	3D
20		98	49	13	41	27	13	245	10	89		2.8	
1	900	4.94	2.47	.50	2.25	1.34	.75	9.94	0.45	5.00	4.7	10.5	5F
25		125	63	13	57	34	19	253	11	127		4.7	
1 1/4	900	4.94	2.47	.50	2.25	1.68	1.00	10.50	0.45	5.00	5.0	10.5	5G
32		125	63	13	57	43	25	267	11	127		4.7	
1 1/2	900	8.50	4.25	.63	3.25	1.92	1.25	10.88	0.46	8.00	10.5	20.5	7H
40		216	108	16	83	49	32	276	16	203		9.3	
2	900	8.50	4.25	.63	3.25	2.41	1.50	10.88	0.46	8.00	15.5	20.5	7J
50		216	108	16	83	61	38	276	16	203		9.3	
2 1/2	900	10.25	5.13	.63	4.25	2.91	1.88	20.18	0.75	10.00	22.0	45	8K
65		260	130	16	108	74	48	512	19	254		20.4	
3	900	10.25	5.13	*	4.25	*	2.25	20.18	0.75	10.00	35.0	45	8L
80		260	130		108		58	512	19	254		20.4	
4	900	12	6.00	*	4.25	*	2.63	20.18	0.75	10.00	48.0	45	8M
100		305	152		108		67	512	19	254		20.4	