

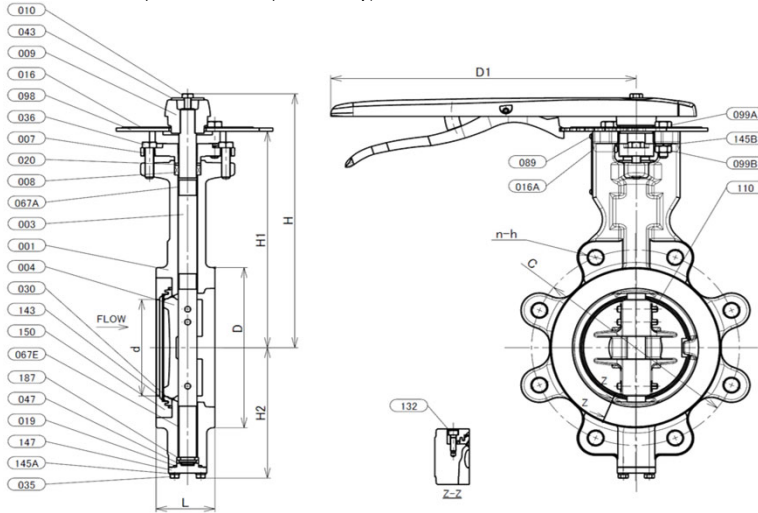
HIGH PERFORMANCE BUTTERFLY VALVES - Class 150

Dual offset design • Lug design • Carbon steel body • One-piece stem • Stainless steel disc and stem
Bi-Directional dead end service • ISO5211 mounting pad • Direct mount actuation

SIZE 2-1/2" to 12"

END CONNECTION: ASME B16.5 WALL THICKNESS: ASME B16.34 TEST: MSS SP-68

CODE #6364L (150SCHBSL) - Locking Lever -

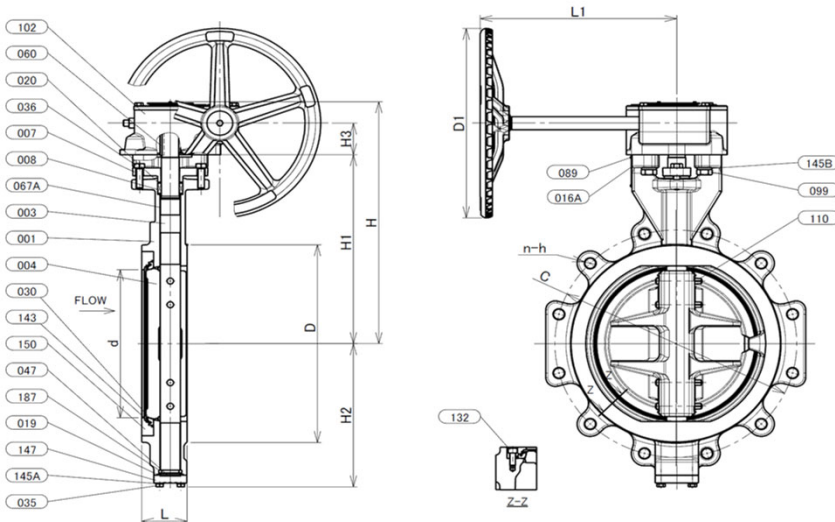


DIMENSIONS

SIZE	d	H	H1	H2	L	D	C	D1	n	h
in. 2 1/2	2.20	8.60	7.20	3.43	1.81	4.72	5.50	9.06	4	5/8-11UNC
mm 65	56	216	182	87	46	120	139.7	230	4	5/8-11UNC
in. 3	2.91	9.10	7.60	3.78	1.89	5.16	6.00	11.02	4	5/8-11UNC
mm 80	74	229	192	96	48	131	152.4	280	4	5/8-11UNC
in. 4	3.70	9.76	8.31	5.00	2.13	6.14	7.50	11.02	8	5/8-11UNC
mm 100	94	248	211	127	54	156	190.5	280	8	5/8-11UNC
in. 5	4.65	10.43	9.02	5.71	2.24	7.36	8.50	13.78	8	3/4-10UNC
mm 125	118	265	229	145	57	187	215.9	350	8	3/4-10UNC

MATERIAL LIST		
NO.	NAME OF PART	SPECIFICATION
1	BODY	A216 Gr.WCB/SCPH2
3	STEM	SUS420J2Q
4	DISC	A351 Gr.CF8M/SCS14A+HCr
7	GLAND	A351 Gr.CF8/SCS13A
8	GLAND PACKING	PTFE
9	HANDLE	
10	HANDLE BOLT	STAINLESS STEEL
16	NAME PLATE	ALUMINUM
16A	NAME PLATE	STAINLESS STEEL
19	GASKET	PTFE
20	PACKING WASHER	STAINLESS STEEL (304SS)
30	SEAT RING	C/F PTFE
35	END PLATE BOLT	STAINLESS STEEL (304SS)
36	GLAND BOLT	STAINLESS STEEL
43	WASHER	STAINLESS STEEL
47	THRUST WASHER	PTFE
67A	STEM BEARING	METAL BACKED PTFE
67E	STEM BEARING	G/F PTFE
89	PARKER TACK	STAINLESS STEEL
98	INDEX PLATE	CARBON STEEL
99A	BOLT	STAINLESS STEEL
99B	NUT	STAINLESS STEEL
110	TAPER PIN	STAINLESS STEEL (316SS)
132	RETAINER BOLT	LOW ALLOY STEEL
143	SEAT SPRING	STAINLESS STEEL (304SS)
145A	SPRING WASHER	STAINLESS STEEL
145B	SPRING WASHER	STAINLESS STEEL
147	END PLATE	A351 Gr.CF8/SCS13A
150	SEAT RETAINER	CARBON STEEL
187	SPLIT RING	STAINLESS STEEL (304SS)

CODE #6364G (G-150SCHBSL) - Gear Operator -



DIMENSIONS

SIZE	d	H	H1	H2	H3	L	D	C	D1	L1	n	h
in. 6	5.51	11.81	9.49	6.18	1.10	2.24	8.46	9.50	6.69	7.09	8	3/4-10UNC
mm 150	140	300	241	157	28	57	215	241.3	170	180	8	3/4-10UNC
in. 8	7.40	14.41	11.10	6.97	1.85	2.52	10.51	11.75	12.20	8.66	8	3/4-10UNC
mm 200	188	366	282	177	47	64	267	298.4	310	220	8	3/4-10UNC
in. 10	9.17	15.94	12.64	9.57	1.85	2.80	12.95	14.25	12.20	8.66	12	7/8-9UNC
mm 250	233	405	321	243	47	71	329	362.0	310	220	12	7/8-9UNC
in. 12	11.10	18.11	14.13	10.71	2.36	3.19	14.76	17.00	14.17	13.78	12	7/8-9UNC
mm 300	282	460	359	272	60	81	375	431.8	360	350	12	7/8-9UNC

MATERIAL LIST		
NO.	NAME OF PART	SPECIFICATION
1	BODY	A216 Gr.WCB/SCPH2
3	STEM	SUS420J2Q
4	DISC	A351 Gr.CF8M/SCS14A+HCr
7	GLAND	A351 Gr.CF8/SCS13A
8	GLAND PACKING	PTFE
16A	NAME PLATE	STAINLESS STEEL
19	GASKET	PTFE
20	PACKING WASHER	STAINLESS STEEL (304SS)
30	SEAT RING	C/F PTFE
35	END PLATE BOLT	STAINLESS STEEL (304SS)
36	GLAND BOLT	STAINLESS STEEL
47	THRUST WASHER	PTFE
60	KEY	CARBON STEEL
67A	STEM BEARING	METAL BACKED PTFE
67E	STEM BEARING	G/F PTFE (6")
89	PARKER TACK	STAINLESS STEEL
99	BOLT	STAINLESS STEEL
102	GEAR UNIT	
110	TAPER PIN	STAINLESS STEEL (316SS)
132	RETAINER BOLT	LOW ALLOY STEEL
143	SEAT SPRING	STAINLESS STEEL (304SS)
145A	SPRING WASHER	STAINLESS STEEL
145B	SPRING WASHER	STAINLESS STEEL
147	END PLATE	A351 Gr.CF8/SCS13A
150	SEAT RETAINER	CARBON STEEL
187	SPLIT RING	STAINLESS STEEL (304SS)

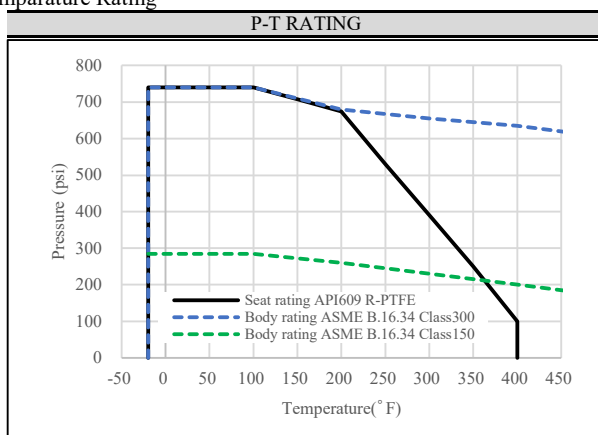


State of California Prop 65 WARNING : Cancer and Reproductive Harm.
For more information visit www.p65warnings.co.gov

HIGH PERFORMANCE BUTTERFLY VALVES - Class 150

Technical Data

Pressure - Temperature Rating



Temperature (°F)	Class 150	Class 300
	Pressure (psi)	Pressure (psi)
-20	285	740
0	285	740
50	285	740
100	285	740
150	273	708
200	260	675
250	245	530
300	230	390
350	215	250
400	100	100

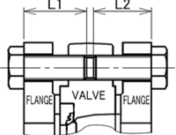
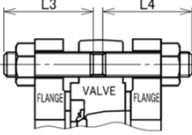
Operating Torques

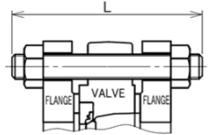
Operating torque (in. lbs.)		
SIZE	ΔP (psi)	
	145	285
2 1/2	177	177
3	354	354
4	443	443
5	708	797
6	974	1062
8	1682	1859
10	2655	2832
12	3806	4248

Flow Data

Flow Coefficient (Cv)									
Size	Degree Open[°]								
	10	20	30	40	50	60	70	80	90
2 1/2	3	16	31	48	66	82	92	95	91
3	5	24	49	79	96	116	141	166	177
4	10	44	89	138	175	219	267	311	320
5	13	66	136	196	249	318	389	467	487
6	22	113	211	286	386	489	618	751	775
8	36	186	347	483	677	911	1169	1477	1505
10	69	291	521	747	1058	1499	2056	2654	2791
12	129	481	748	1087	1579	2265	3217	4285	4458

Flange bolt

Bolt Dimensions									
									
Flange		ASME Class 150				ASME Class 150			
Size	Thread size	Hex head bolt (L1)		Hex head bolt (L2)		Stud (L3) & Nut		Stud (L4) & Nut	
		Qty	Length (in.)	Number	Length (in.)	Number	Length (in.)	Number	Length (in.)
2 1/2	5/8-11UNC	4	1.750	4	1.750	4	2.750	4	2.750
3	5/8-11UNC	4	1.875	4	1.875	4	2.750	4	2.750
4	5/8-11UNC	8	2.000	8	2.000	8	3.000	8	3.000
5	3/4-10UNC	8	2.000	8	2.000	8	3.000	8	3.000
6	3/4-10UNC	8	2.000	8	2.000	8	3.000	8	3.000
8	3/4-10UNC	8	2.250	8	2.250	8	3.250	8	3.250
10	7/8-9UNC	12	2.500	12	2.500	12	3.750	12	3.750
12	7/8-9UNC	12	2.750	12	2.750	12	4.000	12	4.000

				
Flange		ASME Class 150		
Size	Thread size	Stud (L)		Nut
		Number	Length (in.)	Number
2 1/2	5/8-11UNC	4	5.250	8
3	5/8-11UNC	4	5.500	8
4	5/8-11UNC	8	6.000	16
5	3/4-10UNC	8	6.250	16
6	3/4-10UNC	8	6.250	16
8	3/4-10UNC	8	6.750	16
10	7/8-9UNC	12	7.500	24
12	7/8-9UNC	12	8.000	24

* Nut : ASME B18.22 Heavy Hex Nut

* Bolt lengths are set based on the following conditions

· Gasket thickness of 0.06 inches (1.6mm).

· Minimum flange thickness of weld neck flanges per ASME B16.5