MAX SEAL Valves & Controls

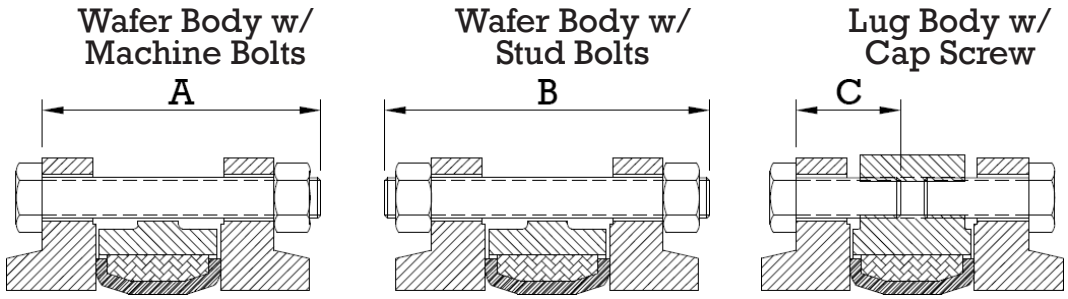
Butterfly Valve Flange Bolting Information

Max-Seal concentric & high performance butterfly valves can be installed between steel & cast iron flanges, both raised face and flat-faced type. Plastic flanges may be utilized, but proper plastic flange installation should be followed to avoid damage due to over tightening of the flange bolting.

During installation, wafer or lug butterfly valves are inserted between flanges, which are connected with bolts, studs, or cap screws. The dimensions of which are included in this technical bulletin.

Lug body valves may be used in end-of-line service with downstream piping removed. Preferred flow direction should be used, consult factory. Weld neck or socket flanges should be used for this service, consult factory for dead end pressure ratings.

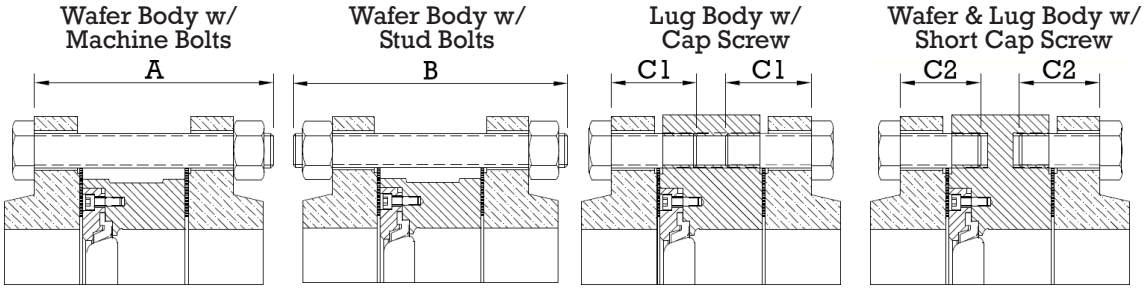
Performance Series 51/52 Flange Bolting Information



Valve Size	Fastener Thread	Bolt No.	A	Stud No.	B	Screw No.	C
2"	5/8–11unc	4	4.50	4	5.25	8	1.50
2½"	5/8–11unc	4	4.75	4	5.50	8	1.75
3"	5/8–11unc	4	4.75	4	5.50	8	1.75
4"	5/8–11unc	8	5.25	8	6.00	16	1.75
5"	3/4–10unc	8	5.25	8	6.00	16	1.75
6"	3/4–10unc	8	5.50	8	6.50	16	1.75
8"	3/4–10unc	8	6.00	8	7.00	16	2.00
10"	7/8–9unc	12	6.50	12	7.50	24	2.25
12"	7/8–9unc	12	6.75	12	7.75	24	2.50
14"	1-8unc	12	7.25	12	8.50	24	2.75
16"	1-8unc	16	8.25	16	9.50	32	3.00
18"	1 1/8–7un	16	9.00	16	10.50	32	3.25
20"	1 1/8–7un	20	10.25	20	11.50	40	3.75
24"	1 1/4–7un	20	11.50	20	13.00	40	4.00

Butterfly Valve Flange Bolting Information

High Performance Butterfly Valve Flange Bolting Information
ANSI Class 150
ANSI Class 300



ANSI Class	Valve Size	Fastener Thread	Bolt No.	A	Stud No.	B	Long Screw No.	C1	Short Screw No.	C2
Class 150: BL630/BW630	2"	5/8–11unc	4	4.75	4	5.25	4+4	1.50	N/A	N/A
	2½"	5/8–11unc	4	5.00	4	5.50	4+4	1.75	N/A	N/A
	3"	5/8–11unc	4	5.00	4	5.75	4+4	1.75	N/A	N/A
	4"	5/8–11unc	8	5.25	8	6.00	8+8	2.00	N/A	N/A
	5"	3/4–10unc	8	5.75	8	6.25	8+8	2.00	N/A	N/A
	6"	3/4–10unc	8	5.75	8	6.50	8+8	2.00	N/A	N/A
	8"	3/4–10unc	8	6.25	8	7.00	8+8	2.25	N/A	N/A
	10"	7/8–9unc	12	7.00	12	7.50	12+12	2.25	N/A	N/A
	12"	7/8–9unc	12	7.50	12	8.25	12+12	2.50	N/A	N/A
	14"	1-8unc	12	8.25	12	9.25	12+12	2.75	N/A	N/A
	16"	1-8unc	16	8.75	16	9.50	16+16	2.75	N/A	N/A
	18"	1 1/8–8un	12*	9.75	12*	10.50	12+12*	3.00	4+4	3.00
	20"	1 1/8–8un	16*	10.75	16*	11.50	16+16*	3.25	4+4	3.00
	24"	1 1/4–8un	16*	12.25	16*	13.00	16+16*	4.00	4+4	3.00
Class 300: BL730?BW730	2"	5/8–11unc	8	5.00	8	5.50	8+8	1.50	N/A	N/A
	2½"	3/4–10unc	8	5.25	8	6.00	8+8	1.75	N/A	N/A
	3"	3/4–10unc	8	5.75	8	6.50	8+8	2.00	N/A	N/A
	4"	3/4–10unc	8	6.00	8	6.75	8+8	2.25	N/A	N/A
	5"	3/4–10unc	8	6.75	8	7.25	8+8	2.50	N/A	N/A
	6"	3/4–10unc	12	6.75	12	7.25	12+12	2.50	N/A	N/A
	8"	7/8–9unc	12	8.00	12	8.50	12+12	2.75	N/A	N/A
	10"	1-8unc	12*	9.00	12*	9.75	12+12*	3.25	4+4	3.25
	12"	1 1/8–8un	12*	9.75	12*	10.75	12+12*	3.50	4+4	3.00
	14"	1 1/8–8un	16*	11.00	16*	11.75	16+16*	3.75	4+4	3.25
	16"	1 1/4–8un	16*	12.00	16*	13.00	16+16*	4.00	4+4	3.50
	18"	1 1/4–8un	20*	12.75	20*	13.75	20+20*	4.00	4+4	3.50
	20"	1 1/4–8un	20*	13.75	20*	14.50	20+20*	4.25	4+4	3.75
	24"	1 1/2–8un	20*	15.50	20*	16.25	20+20*	5.00	4+4	4.00

***18"–24" Class 150 and 10"–24" Class 300 wafer and lug valves all have four (4) tapped holes each side straddling the shaft, which requires a total of eight (8) short cap screws. See C2 for the lengths of these short cap screws.**

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