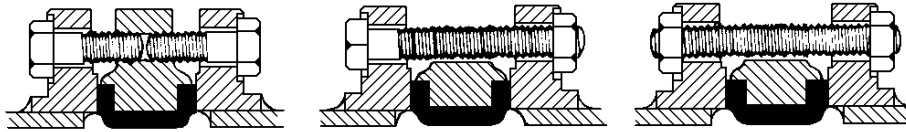


**Studs & Bolts for Mounting Butterfly Valves 2" to 24"
Between ANSI Class 125/150 Flanges**



Cap Screws

Machine Bolts

Stud Bolts

Note: Cap screws must be short enough to ensure that they do not touch each other after tightening to avoid cracking the lug.

TABLE I

Wafer body valve using Heavy Hex Machine bolts with 1 Heavy Hex nut each														
	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Diameter	5/8	5/8	5/8	5/8	¾	¾	¾	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4
Length	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/4	6	6 1/4	6 3/4	7 1/4	8 1/4	9	10	12
Quantity	4	4	4	8	8	8	8	12	12	12	16	16	20	20

TABLE II

Wafer body valve using Stud Bolts or All Thread cross bolting with 2 Heavy Hex nut each														
	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Diameter	5/8	5/8	5/8	5/8	¾	¾	¾	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4
Length	5	5 1/4	5 1/2	5 3/4	6 1/4	6 1/4	7	7 1/4	7 3/4	8 1/2	9 1/2	10 1/4	11 1/4	13
Quantity	4	4	4	8	8	8	8	12	12	12	16	16	20	20

TABLE III

Lug body valve with Tapped holes using Heavy Hex Cap Screws (National Coarse Threads)														
	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Diameter	5/8	5/8	5/8	5/8	¾	¾	¾	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4
Length	1 1/2	1 1/2	1 3/4	1 3/4	1 3/4	1 3/4	2 1/4	2 1/4	2 1/2	2 3/4	3 1/4	3 1/2	4	4 1/4
Quantity	8	8	8	16	16	16	16	24	24	24	32	32	40	40