



TECH TIP #42

BUTTERFLY VALVE INFORMATION

TABLE I
Wafer Body Valves Using Cross Bolting
Heavy Hex Bolts with 1 Heavy Hex Nut Each

Heavy Hex Bolts w/ 1 Heavy Hex Nut Each	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
Diameter	⅝	⅝	⅝	⅝	¾	¾	¾	¾	¾	1	1	1⅛	1⅛
Length	4¼	4½	4¾	5	5¼	5¼	6	6¼	6¾	7¼	8¼	9	10
Number Required	4	4	4	8	8	8	8	12	12	12	16	16	20

TABLE II
Full Lug Body with Tapped Holes
Heavy Hex Screws with National Course Threads

Heavy Hex Bolts	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
Diameter	⅝	⅝	⅝	⅝	¾	¾	¾	¾	¾	1	1	1⅛	1⅛
Length	1½	1¾	1¾	1¾	2	2	2¼	2¼	2¼	2¼	3¼	3½	4 & 3¼
Number Required	8	8	8	16	16	16	16	24	24	24	32	32	8 @ 3¼ & 32 @ 4

TABLE III
Wafer Body Valves Using Studs with 2 Nuts Each
All Thread Studs with 2 Heavy Hex Nuts Each

Stud with 2 Heavy Hex Nuts Each	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
Diameter	⅝	⅝	⅝	⅝	¾	¾	¾	¾	¾	1	1	1⅛	1⅛
Length	5	5¼	5½	5¾	6¼	6¼	7	7¼	7¼	8½	9½	10¼	11¼
Number Required	4	4	4	8	8	8	8	12	12	12	16	16	20

FROM BRAY BUTTERFLY VALVE LITERATURE

