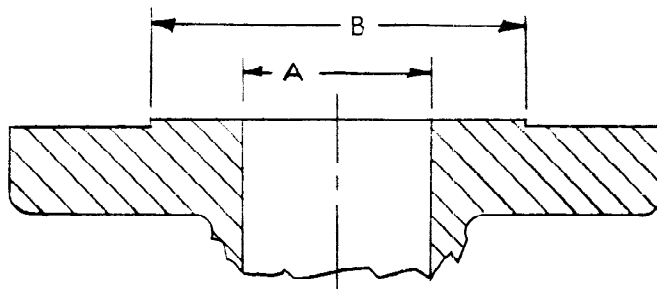


FLANGES OTHER THAN A.N.S.I. FOR USE WITH BUTTERFLY VALVES

Flanges mating with valves must be to dimensions given below. See the following pages for bolt hole information.

VALVE SIZE		(A) FLANGE INSIDE DIAMETER				(B) MINIMUM OUTSIDE DIAMETER OF FLANGE CONTACT SURFACE	
		MINIMUM		MAXIMUM			
mm	INCH	mm	INCHES	mm	INCHES	mm	INCHES
50	2	53	2.07	62	2.44	96	3.76
65	2½	62	2.44	75	2.94	107	4.22
80	3	77	3.05	91	3.57	119	4.70
100	4	102	4.00	116	4.57	143	5.62
125	5	127	5.00	144	5.66	170	6.68
150	6	151	5.96	171	6.72	196	7.72
200	8	199	7.83	222	8.72	247	9.71
250	10	249	9.80	276	10.88	301	11.86
300	12	296	11.64	327	12.88	353	13.88
350	14	327	12.88	359	14.14	384	15.12
400	16	376	14.82	410	16.16	436	17.17
450	18	426	16.77	462	18.18	490	19.28
500	20	475	18.70	513	20.20	539	21.21



DIN 10 FLANGES BUTTERFLY VALVES
FLANGE BOLT PATTERN IS TO DIN 10 STANDARD,
EXCEPT SOME HOLES ARE TAPPED. QUANTITY, SIZE
OF TAP, AND DEPTH OF TAP ARE GIVEN BELOW.
NOTE-DIN 10 & BS 4504/10 ARE THE SAME

VALVE SIZE		MATERIAL								
		IRON - WAFER			IRON - LUGGED			IRON - FLANGED		
INCH	M.M.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm
1/2	15									
3/4	20									
1	25									
1 1/4	32									
1 1/2	40									
2	50				4	M-16x2	THRU			
2 1/2	65				4	M-16x2	THRU			
3	80				8	M-16x2	THRU			
4	100				8	M-16x2	THRU			
5	125				8	M-16x2	THRU			
6	150				8	M-20x2.5	THRU			
8	200				8	M-20x2.5	THRU			
10	250				12	M-20x2.5	THRU			
12	300				12	M-20x2.5	THRU			
14	350				16	M-20x2.5	THRU			
16	400				16	M-24x3	THRU			
18	450	4	M-24x3	32	20	M-24x3	32 (4) THRU (16)			
20	500	4	M-24x3	32	20	M-24x3	38 (4) THRU (16)			
24	600	4	M-27x3	38				20	M-27x3	38 (4) THRU (16)
30	700									
36	900	4	M-30x3.5	46				28	M-30x3.5	60 (4) THRU (24)

PCN 50205

DIN 16 FLANGES BUTTERFLY VALVES
 FLANGE BOLT PATTERN IS TO DIN 16 STANDARD,
 EXCEPT SOME HOLES ARE TAPPED. QUANTITY, SIZE
 OF TAP AND DEPTH OF TAP ARE GIVEN BELOW.
 NOTE – DIN 16 & BS 4504/16 ARE THE SAME.

VALVE SIZE		MATERIAL								
		IRON – WAFER			IRON – LUGGED			IRON – FLANGED		
INCH	M.M.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm
1/2	15									
3/4	20									
1	25									
1 1/4	32									
1 1/2	40									
2	50				4	M-16x2	THRU			
2 1/2	65				4	M-16x2	THRU			
3	80				8	M-16x2	THRU			
4	100				8	M-16x2	THRU			
5	125				8	M-16x2	THRU			
6	150				8	M-20x2.5	THRU			
8	200				12	M-20x2.5	THRU			
10	250				12	M-24x3	THRU			
12	300				12	M-24x3	THRU			
14	350				16	M-24x3	THRU			
16	400				16	M-27x3	THRU			
18	450	4	M-27x3	32	20	M-27x3	32 (4) THRU (16)			
20	500	4	M-30x3.5	32	20	M-30x3.5	38 (4) THRU (16)			
24	600	4	M-33x3.5	50				20	M-33x3.5	50 (4) THRU (16)
30	700									
36	900	4	M-36x4	60				28	M-36x4	60 (4) THRU (24)

B.S. D

BUTTERFLY VALVES

FLANGE BOLT PATTERN IS TO BRITISH STANDARD

TABLE D, EXCEPT SOME HOLES ARE TAPPED. QUANTITY,
SIZE OF TAP, AND DEPTH OF TAP ARE GIVEN BELOW.

VALVE SIZE		MATERIAL								
		IRON – WAFER			IRON – LUGGED			IRON – FLANGED		
INCH	M.M.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH in.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH in.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm
1/2	15									
3/4	20									
1	25									
1 1/4	32									
1 1/2	40									
2	50				4	5/8 – 11	THRU			
2 1/2	65				4	5/8 – 11	THRU			
3	80				4	5/8 – 11	THRU			
4	100				8	5/8 – 11	THRU			
5	125				8	5/8 – 11	THRU			
6	150				8	5/8 – 11	THRU			
8	200				8	5/8 – 11	THRU			
10	250				8	3/4 – 10	THRU			
12	300				12	3/4 – 10	THRU			
14	350				12	7/8 – 9	THRU			
16	400				12	7/8 – 9	THRU			
18	450									
20	500				16	7/8 – 9	THRU			
24	600	4	1 – 8	40				16	1 – 8	40 (4) THRU (12)
30	700	4	1 1/8 – 7	38				20	1 1/8 – 7	38 (4) THRU (16)
36	900	4	1 1/4 – 7	50				24	1 1/4 – 7	50 (4) THRU (20)

B.S. E BUTTERFLY VALVES
FLANGE BOLT PATTERN IS TO BRITISH STANDARD
TABLE E, EXCEPT SOME HOLES ARE TAPPED. QUANTITY,
SIZE OF TAP, AND DEPTH OF TAP ARE GIVEN BELOW.

VALVE SIZE		MATERIAL								
		IRON – WAFER			IRON – LUGGED			IRON – FLANGED		
INCH	M.M.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH in.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH in.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm
1/2	15									
3/4	20									
1	25									
1 1/4	32									
1 1/2	40									
2	50				4	5/8 – 11	THRU			
2 1/2	65				4	5/8 – 11	THRU			
3	80				4	5/8 – 11	THRU			
4	100				8	5/8 – 11	THRU			
5	125				8	5/8 – 11	THRU			
6	150				8	3/4 – 10	THRU			
8	200				8	3/4 – 10	THRU			
10	250				12	3/4 – 10	THRU			
12	300				12	7/8 – 9	THRU			
14	350				12	7/8 – 9	THRU			
16	400				12	7/8 – 9	THRU			
18	450				16	7/8 – 9	THRU			
20	500				16	7/8 – 9	THRU			
24	600	4	1 1/8 – 7	40				16	1 1/8 – 7	40 (4) THRU (12)
30	700	4	1 1/4 – 7	38				20	1 1/4 – 7	38 (4) THRU (16)
36	900	4	1 1/4 – 7	50						

JIS – 10

BUTTERFLY VALVES

FLANGE BOLT PATTERN IS TO JIS – 10 STANDARDS,
EXCEPT SOME HOLES ARE TAPPED. QUANTITY, SIZE
OF TAP, AND DEPTH OF TAP ARE GIVEN BELOW.

VALVE SIZE		MATERIAL								
		IRON – WAFER			IRON – LUGGED			IRON – FLANGED		
INCH	M.M.	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm	QTY. OF TAPPED HOLES EACH FLANGE	TAP SIZE	TAP DEPTH mm
1/2	15									
3/4	20									
1	25									
1 1/4	32									
1 1/2	40									
2	50				4	M-16x2	THRU			
2 1/2	65				4	M-16x2	THRU			
3	80				8	M-16x2	THRU			
4	100				8	M-16x2	THRU			
5	125				8	M-20x2.5	THRU			
6	150				8	M-20x2.5	THRU			
8	200				12	M-20x2.5	THRU			
10	250				12	M-22x2.5	THRU			
12	300				16	M-22x2.5	THRU			
14	350				16	M-22x2.5	THRU			
16	400				16	M-24x3	THRU			
18	450	4	M-24x3	32	20	M-24x3	32 (4) THRU (16)			
20	500	4	M-24x3	32	20	M-24x3	38 (4) THRU (16)			
24	600	4	M-30x3.5	44				24	M-30x3.5	44 (4) THRU (20)
30	700	4	M-30x3.5	38				24	M-30x3.5	44 (4) THRU (20)
36	900	4	M-30x3.5	53				28	M-30x3.5	53 (4) THRU (24)