

Class 150						Indana Class 300					
Nominal Pipe Size	Diameter of	No.	Diameter of	Diameter of	Bolt	Nominal Pipe Size	Diameter of	No.	Diameter of	Diameter of	Bolt
NPS	Flange	of	Bolts	Bolt Holes	Circle	NPS	Flange	of	Bolts	Bolt Holes	Circle
(inches)	(inches)	Bolts	(inches)	(inches)	(inches)	(inches)	(inches)	Bolts	(inches)	(inches)	(inches)
0.25	3.375	4	0.5	0.62	2.25	1/4	3 3/8	4	1/2	0.62	2 1/4
0.5	3.5	4	0.5	0.62	2.375	1/2	3 3/4	4	1/2	0.62	2 5/8
0.75	3.875	4	0.5	0.62	2.75	3/4	4 5/8	4	5/8	0.75	3 1/4
1	4.25	4	0.5	0.62	3.125		4 7/8	4	5/8	0.75	3 1/2
1.25	4.625	4	0.5	0.62	3.5	1 1/4	5 1/4	4	5/8	0.75	3 7/8
1.5	5	4	0.5	0.62	3.875	1 1/2	6 1/8	4	3/4	0.88	4 1/2
2	6	4	0.625	0.75	4.75	2	6 1/2	8	5/8	0.75	5
2.5	7	4	0.625	0.75	5.5	2 1/2	7 1/2	8	3/4	0.88	5 7/8
3	7.5	4	0.625	0.75	6	3	8 1/4	8	3/4	0.88	6 5/8
3.5	8.5	8	0.625	0.75	7	3 1/2	9	8	3/4	0.88	7 1/4
4	9	8	0.625	0.75	7.5	4	10	8	3/4	0.88	7 7/8
5	10	8	0.75	0.88	8.5	5	11	8	3/4	0.88	9 1/4
6	11	8	0.75	0.88	9.5	6	12 1/2	12	3/4	0.88	10 5/8
8	13-1/2	8	0.75	0.88	11.75	8	15	12	7/8	1	13
10	16	12	0.875	1	14-1/4	10	17-1/2	16	1	1.12	15-1/4
12	19	12	0.875	1	17	12	20-1/2	16	1 1/8	1.25	17-3/4
14	21	12	1	1.12	18-3/4	14	23	20	1 1/8	1.25	20-1/4
16	23-1/2	16	1	1.12	21-1/4	16	25-1/2	20	1 1/4	1.38	22-1/2
18	25	16	1.125	1.25	22-3/4	18	28	24	1 1/4	1.38	24-3/4
20	27-1/2	20	1.125	1.25	25	20	30-1/2	24	1 1/4	1.38	27
24	32	20	1.25	1.38	29-1/2	24	36	24	1 1/2	1.62	32

Class 400						Class 600					
Nominal Pipe Size	Diameter of	No.	Diameter of	Diameter of	Bolt	Nominal Pipe Size	Diameter of	No.	Diameter of	Diameter of	Bolt
NPS	Flange	of	Bolts	Bolt Holes	Circle	NPS	Flange	of	Bolts	Bolt Holes	Circle
(inches)	(inches)	Bolts	(inches)	(inches)	(inches)	(inches)	(inches)	Bolts	(inches)	(inches)	(inches)
1/4	3 3/8	4	1/2	0.62	2 1/4	1/4	3 3/8	4	1/2	0.62	2 1/4
1/2	3 3/4	4	1/2	0.62	2 5/8	1/2	3 3/4	4	1/2	0.62	2 5/8
3/4	4 5/8	4	5/8	0.75	3 1/4	3/4	4 5/8	4	5/8	0.75	3 1/4
1	4 7/8	4	5/8	0.75	3 1/2	1	4 7/8	4	5/8	0.75	3 1/2
1 1/4	5 1/4	4	5/8	0.75	3 7/8	1 1/4	5 1/4	4	5/8	0.75	3 7/8
1 1/2	6 1/8	4	3/4	0.88	4 1/2	1 1/2	6 1/8	4	3/4	0.88	4 1/2
2	6 1/2	8	5/8	0.75	5	2	6 1/2	8	5/8	0.75	5
2 1/2	7 1/2	8	3/4	0.88	5 7/8	2 1/2	7 1/2	8	3/4	0.88	5 7/8
3	8 1/4	8	3/4	0.88	6 5/8	3	8 1/4	8	3/4	0.88	6 5/8
3 1/2	9	8	7/8	1	7 1/4	3 1/2	9	8	7/8	1	7 1/4
4	10	8	7/8	1	7 7/8	4	10 3/4	8	7/8	1	8 1/2
5	11	8	7/8	1	9 1/4	5	13	8	1	1.12	10 1/2
6	12 1/2	12	7/8	1	10 5/8	6	14	12	1	1.12	11 1/2
8	15	12	1	1.12	13	8	16-1/2	12	1 1/8	1.25	13-3/4
10	17-1/2	16	1 1/8	1.25	15-1/4	10	20	16	1 1/4	1.38	17
12	20-1/2	16	1 1/4	1.38	17-3/4	12	22	20	1 1/4	1.38	19-1/4
14	23	20	1 1/4	1.38	20-1/4	14	23-3/4	20	1 3/8	1.5	20-3/4
16	25-1/2	20	1 3/8	1.5	22-1/2	16	27	20	1 1/2	1.62	23-3/4
18	28	24	1 3/8	1.5	24-3/4	18	29-1/4	20	1 5/8	1.75	25-3/4
20	30-1/2	24	1 1/2	1.62	27	20	32	24	1 5/8	1.75	28-1/2
24	36	24	1 3/4	1.88	32	24	37	24	1 7/8	2	33

Class 900						Class 1500					
Nominal Pipe Size	Diameter of	No.	Diameter of	Diameter of	Bolt	Nominal Pipe Size	Diameter of	No.	Diameter of	Diameter of	Bolt
NPS	Flange	of	Bolts	Bolt Holes	Circle	NPS	Flange	of	Bolts	Bolt Holes	Circle
(inches)	(inches)	Bolts	(inches)	(inches)	(inches)	(inches)	(inches)	Bolts	(inches)	(inches)	(inches)
1/2	4 3/4	4	3/4	0.88	3 1/4	1/2	4 3/4	4	3/4	0.88	3 1/4
3/4	5 1/8	4	3/4	0.88	3 1/2	3/4	5 1/8	4	3/4	0.88	3 1/2
1	5 7/8	4	7/8	1	4	1	5 7/8	4	7/8	1	4
1 1/4	6 1/4	4	7/8	1	4 3/8	1 1/4	6 1/4	4	7/8	1	4 3/8
1 1/2	7	4	1	1.12	4 7/8	1 1/2	7	4	1	1.12	4 7/8
2	8 1/2	8	7/8	1	6 1/2	2	8 1/2	8	7/8	1	6 1/2
2 1/2	9 5/8	8	1	1.12	7 1/2	2 1/2	9 5/8	8	1	1.12	7 1/2
3	9 1/2	8	7/8	1	7 1/2	3	10 1/2	8	1 1/8	1.25	8
4	11 1/2	8	1 1/8	1.25	9 1/4	4	12 1/4	8	1 1/4	1.38	9 1/2
5	13-3/4	8	1 1/4	1.38	11	5	14-3/4	8	1 1/2	1.62	11 1/2
6	15	12	1 1/8	1.25	12 1/2	6	15-1/2	12	1 3/8	1.5	12 1/2
8	18-1/2	12	1 3/8	1.5	15-1/2	8	19	12	1 5/8	1.75	15-1/2
10	21-1/2	16	1 3/8	1.5	18-1/2	10	23	12	1 7/8	2	19
12	24	20	1 3/8	1.5	21	12	26-1/2	16	2	2.12	22-1/2
14	25-1/4	20	1 1/2	1.62	22	14	29-1/2	16	2 1/4	2.38	25
16	27-3/4	20	1 5/8	1.75	24-1/2	16	32-1/2	16	2 1/2	2.62	27-3/4
18	31	20	1 7/8	2	27	18	36	16	2 3/4	2.88	30-1/2
20	33-3/4	20	2	2.12	29-1/2	20	38-3/4	16	3	3.12	32-3/4
24	41	20	2 1/2	2.62	35-1/2	24	46	16	3 1/2	3.62	39

Class 2500					
Nominal Pipe Size NPS (inches)	Diameter of Flange (inches)	No. of Bolts	Diameter of Bolts (inches)	Diameter of Bolt Holes (inches)	Bolt Circle (inches)
1/2	5 1/4	4	3/4	0.88	3 1/2
3/4	5 1/2	4	3/4	0.88	3 3/4
1	6 1/4	4	7/8	1	4 1/4
1 1/4	7 1/4	4	1	1.12	5 1/8
1 1/2	8	4	1 1/8	1.25	5 3/4
2	9 1/4	8	1	1.12	6 3/4
2 1/2	10 1/2	8	1 1/8	1.25	7 3/4
3	12	8	1 1/4	1.38	9
4	14	8	1 1/2	1.62	10 3/4
5	16-1/2	8	1 3/4	1.88	12 3/4
6	19	8	2	2.12	14-1/2
8	21-3/4	12	2	2.12	17-1/4
10	26-1/2	12	2 1/2	2.62	21-1/4
12	30	12	2 3/4	2.88	24-3/8