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Nom Size	Flange O.D.	Flange Thick.	RF O.D.	Barrel O.D.			Bore	Neck Thickness			Bolting		Nut				Stud Bolt			Weights				Length Base		
				l ₁	l ₂	l ₃		l ₁	l ₂	l ₃	No. of Holes	Hole Size	Bolt Circle	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	l ₁	l ₂	l ₃				
NPS	O	T	R	D	D	D	B	N	N	N		C	NS	NR	NL				Base	Per 1"	Base	Per 1"	Base	Per 1"	L	
1	4.88	0.69	2.00	2.75	3.25	4.00	0.96	.090	1.15	1.52	4	0.75	3.50	2.44	2.12	0.88	.63	3.50	3.50	20	1.5	27	2.2	39	3.4	12
1 1/2	6.12	0.88	2.88	4.00	4.62	5.50	1.50	1.25	1.56	2.00	4	0.88	4.50	3.25	2.75	1.00	.75	4.25	4.25	39	3.1	51	4.3	69	6.2	12
2	6.50	1.00	3.62	4.62	5.50	6.00	1.94	1.34	1.78	2.03	8	0.75	5.00	3.94	3.31	0.88	.63	4.25	4.25	49	3.9	69	5.9	95	8.9	12
2 1/2	7.50	1.12	4.12	5.75	6.00	6.38	2.32	1.72	1.84	2.03	8	0.88	5.88	4.62	3.94	1.00	.75	4.75	4.75	73	6.2	81	6.8	90	7.8	12
3	8.25	1.25	5.00	6.00	6.38	7.00	2.90	1.55	1.74	2.05	8	0.88	6.62	5.38	4.62	1.00	.75	5	5	79	6.1	89	7.2	106	9	12
3 1/2	9.00	1.38	5.50	7.00	7.75	8.25	3.36	1.82	2.20	2.45	8	1.00	7.25	5.81	5.25	1.12	.88	5.5	5.5	106	8.4	128	11	145	13	12
4	10.00	1.38	6.19	7.00	7.75	8.88	3.83	1.59	1.96	2.52	8	1.00	7.88	6.44	5.75	1.12	.88	5.5	5.5	104	7.6	126	10	165	14	12
5	11.00	1.50	7.31	8.25	8.88	9.88	4.81	1.72	2.04	2.54	8	1.00	9.25	7.81	7.00	1.12	.88	5.75	5.75	135	10	157	12	195	17	12
6	12.50	1.62	8.50	9.88	10.38	11.00	5.76	2.06	2.31	2.62	12	1.00	10.62	9.19	8.12	1.12	.88	6	6	188	14	208	17	235	20	12
8	15.00	1.88	10.62	12.12	13.50	14.25	7.62	2.25	2.94	3.31	12	1.12	13.00	11.38	10.25	1.25	1	6.75	6.75	259	20	327	28	366	32	12
10	17.50	2.12	12.75	14.25	15.12	16.25	9.56	2.35	2.78	3.35	16	1.25	15.25	13.44	12.62	1.38	1.13	7.50	7.50	431	25	502	31	594	38	16
12	20.50	2.25	15.00	16.25	17.38	18.25	11.38	2.44	3.00	3.44	16	1.38	17.75	15.75	14.75	1.50	1.25	8	8	539	30	641	38	724	45	16
14	23.00	2.38	16.25	19.38	20.12	22.25	14.00	2.69	3.06	4.13	20	1.38	20.25	18.25	16.75	1.50	1.25	8.25	8.25	690	40	768	47	974	67	16
16	25.50	2.50	18.50	22.25	23.25	24.12	16.00	3.12	3.63	4.06	20	1.50	22.50	20.31	19.00	1.62	1.38	8.75	8.75	887	53	980	63	1078	73	16
18	28.00	2.62	21.00	24.12	25.12	26.75	18.00	3.06	3.56	4.38	24	1.50	24.75	22.56	21.00	1.62	1.38	9	9	982	57	1102	68	1284	87	16
20	30.50	2.75	23.00	26.75	27.75	29.25	20.00	3.38	3.88	4.63	24	1.62	27.00	24.63	23.12	1.75	1.50	9.50	9.75	1176	70	1283	82	1476	101	16
24	36.00	3.00	27.25	30.75	32.00	33.62	24.00	3.38	4.00	4.81	24	1.88	32.00	29.25	27.62	2.00	1.75	10.50	11	1437	82	1614	100	1844	123	16

Codes: All connections are manufactured in compliance with ASME Section II, Section VIII, Div. 1, and ASME B16.5. Products may be ordered to special requirements or other standard codes such as ASME Section I, III and Section VIII, Div. 2, ASME B31.1 and B16.47 Series A&B, API and ASTM.

Materials: SA 105 in accordance with ASME Section II. Other material grades and compositions available upon request. See technical section.

Bores: Bore sizes listed are standard, smaller or larger bores are available upon request.

Facing: The flange thickness "T" excludes 0.25 inch raised face per ASME B16.5. This differs on Class 150 and 300. Special facing can be supplied as needed upon request.

Nut Relief: All connections except standard LVN's will be supplied with a "nut stop O.D." unless a "nut relief O.D." is specified.

Lengths: Listed lengths are standards used for base weight calculations. Other lengths are available upon request.

Φ 30° Sect VIII DIV 1 • 45° Sect VIII DIV 2