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Nom Size NPS	Flange O.D. O	Flange Thick. T	RF O.D. R	Barrel O.D.			Bore B	Neck Thickness			Bolting		Nut			Stud Bolt			Weights						Length Base L	
				l ₁	l ₂	l ₃		l ₁	l ₂	l ₃	No. of Holes	Hole Size	Bolt Circle C	Stop Dia. NS	Relief Dia. NR	Relief Length NL	Size	RF Length	RTJ Length	l ₁		l ₂		l ₃		
				D	D	D		N	N	N										Base	Per 1"	Base	Per 1"	Base		Per 1"
1	4.88	0.69	2.00	3.25	4.00	4.62	0.96	1.15	1.52	1.83	4	0.75	3.50	2.44	2.12	0.88	.63	3.50	3.50	26	2.2	38	3.4	50	4.6	12
1½	6.12	.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	50	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	4.50	50	3.9	69	5.9	81	7.2	12
2½	7.50	1.12	4.12	5.75	6.38	7.00	2.32	1.72	2.03	2.03	8	0.88	5.88	4.62	3.94	1.00	.75	5	4.75	83	6.2	98	7.9	105	9.7	12
3	8.25	1.25	5.00	6.38	7.00	7.75	2.90	1.74	2.05	2.43	8	0.88	6.62	5.38	4.62	1.00	.75	5	5.25	88	7.2	105	9.0	127	11.5	12
3½	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	103	8.4	124	10.9	140	12.6	12
4	10.75	1.50	6.19	7.75	8.88	9.88	3.83	1.96	2.53	3.03	8	1.00	8.50	7.06	6.00	1.12	.88	5.75	6	132	10.1	169	14.2	205	18.4	12
5	13.00	1.75	7.31	9.88	11.00	12.12	4.81	2.54	3.10	3.66	8	1.12	10.50	8.88	7.50	1.25	1	6.50	6.50	216	16.5	259	21.8	305	27.5	12
6	14.00	1.88	8.50	11.00	12.12	13.25	5.76	2.62	3.18	3.75	12	1.12	11.50	9.88	8.75	1.25	1	6.75	7	235	20	300	25	350	32	12
8	16.50	2.19	10.62	13.25	15.12	16.00	7.62	2.82	3.75	4.19	12	1.25	13.75	11.94	10.75	1.38	1.13	7.75	8	335	26	427	38	478	44	12
10	20.00	2.50	12.75	16.25	17.38	18.25	9.56	3.35	3.91	4.35	16	1.38	17.00	15.00	13.50	1.50	1.25	8.50	8.75	650	38	747	47	824	54	16
12	22.00	2.62	15.00	18.25	19.38	20.12	11.38	3.44	4.00	4.37	20	1.38	19.25	17.25	15.75	1.50	1.25	8.75	9	771	45	877	55	949	61	16
14	23.75	2.75	16.25	19.38	20.12	22.25	14.00	2.69	3.06	4.13	20	1.50	20.75	18.56	17.00	1.62	1.38	9.25	9.50	708	40	781	47	994	67	16
16	27.00	3.00	18.50	23.25	24.12	25.00	16.00	3.63	4.06	4.50	20	1.62	23.75	21.38	19.50	1.75	1.50	10	10.25	1055	63	1151	73	1248	82	16
18	29.25	3.25	21.00	24.12	26.25	27.75	18.00	3.06	4.13	4.88	20	1.75	25.75	23.19	21.50	1.88	1.63	10.75	11	1044	57	1283	81	1456	99	16
20	32.00	3.50	23.00	27.75	29.25	30.75	20.00	3.88	4.63	5.38	24	1.75	28.50	25.94	24.00	1.88	1.63	11.50	11.75	1398	82	1582	101	1767	121	16
24	37.00	4.00	27.25	30.75	32.00	33.62	24.00	3.38	4.00	4.81	24	2.00	33.00	30.06	28.25	2.12	1.88	13	13.50	1574	82	1736	100	1946	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