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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	5.88	1.12	2.00	3.25	4.00	4.62	0.96	1.15	1.52	1.83	4	1.00	4.00	2.56	2.12	1.12	.88	5	5	29	2.2	41	3.4	51	4.6	12
1 1/2	7.00	1.25	2.88	4.62	5.50	6.00	1.50	1.25	2.00	2.25	4	1.12	4.88	3.25	2.75	1.25	1	5.50	5.50	54	4.3	71	6.2	82	7.5	12
2	8.50	1.50	3.62	5.50	6.00	7.00	1.94	1.78	2.03	2.53	8	1.00	6.50	5.06	4.12	1.12	.88	5.75	5.75	80	5.9	92	7.2	117	10.1	12
2 1/2	9.62	1.62	4.12	6.38	7.00	8.25	2.32	2.03	2.34	2.97	8	1.12	7.50	5.88	4.88	1.25	1	6.25	6.25	107	8.0	123	10	158	14	12
3	10.50	1.88	5.00	7.00	7.75	8.88	2.90	2.05	2.43	2.99	8	1.25	8.00	6.19	5.25	1.38	1.13	7	7	124	9	144	12	177	16	12
4	12.25	2.12	6.19	8.88	9.88	11.00	3.83	2.53	3.03	3.59	8	1.38	9.50	7.50	6.38	1.50	1.25	7.75	7.75	187	14	218	18	257	24	12
5	14.75	2.88	7.31	10.38	12.12	13.50	4.81	2.79	3.66	4.34	8	1.62	11.50	9.12	7.75	1.75	1.50	9.75	9.75	271	19	328	28	376	35	12
6	15.50	3.25	8.50	12.12	13.50	14.25	5.76	3.18	3.87	4.25	12	1.50	12.50	10.31	9.00	1.62	1.38	10.25	10.50	332	25	380	33	408	38	12
8	19.00	3.62	10.62	15.12	16.25	17.38	7.62	3.75	4.32	4.88	12	1.75	15.50	12.94	11.50	1.88	1.63	11.50	12.75	498	38	541	46	585	54	12
10	23.00	4.25	12.75	17.38	20.12	22.25	9.56	3.91	5.28	6.35	12	2.00	19.00	16.06	14.50	2.12	1.88	13.25	13.50	889	47	1088	70	1243	90	16
12	26.50	4.88	15.00	22.25	23.25	24.12	11.38	5.44	5.94	6.37	16	2.12	22.50	19.38	17.75	2.25	2	14.75	15.25	1348	81	1426	92	1495	101	16
14	29.50	5.25	16.25	23.25	25.00	27.75	14.00	4.63	5.50	6.88	16	2.38	25.00	21.50	19.50	2.50	2.25	16	16.75	1443	77	1579	95	1794	128	16
16	32.50	5.75	18.50	26.25	29.25	30.75	16.00	5.13	6.63	7.38	16	2.62	27.75	23.88	21.75	2.75	2.50	17.50	18.50	1771	96	1999	133	2111	153	16
18	36.00	6.38	21.00	27.75	30.75	33.62	18.00	4.88	6.38	7.81	16	2.88	30.50	26.25	23.50	3.00	2.75	19.50	20.75	2070	99	2285	138	2481	180	16
20	38.75	7.00	23.00	30.75	33.00	36.00	20.00	5.38	6.50	8.00	16	3.12	32.75	28.12	25.25	3.25	3	21.25	22.25	2417	121	2558	153	2727	200	16
24	46.00	8.00	27.25	36.00	37.50	40.50	24.00	6.00	6.75	8.25	16	3.62	39.00	33.62	30.00	3.75	3.50	24.25	25.50	3470	160	3545	185	3675	237	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 LWN'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