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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	3.75	4.00	0.96	0.90	1.40	1.52	4	0.75	3.50	2.44	2.12	0.88	.63	3.25	3.50	20	1.5	34	2.9	39	3.4	12
1 1/2	6.12	0.81	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	3.50	4	39	3.1	51	4.3	70	6.2	12
2	6.50	0.88	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	3.50	4.25	49	3.9	69	5.9	81	7.2	12
2 1/2	7.50	1.00	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	4.50	72	6.2	80	6.8	90	7.8	12
3	8.25	1.12	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	4.25	5	78	6.1	88	7.2	106	9	12
3 1/2	9.00	1.19	5.50	7.00	7.75	8.25	3.36	1.82	2.20	2.45	8	0.88	7.25	6.00	5.25	1.00	.75	4.25	5	104	8.4	127	11	144	13	12
4	10.00	1.25	6.19	7.00	7.75	8.88	3.83	1.59	1.96	2.52	8	0.88	7.88	6.62	5.75	1.00	.75	4.50	5.25	102	7.6	125	10	164	14	12
5	11.00	1.38	7.31	8.25	8.88	9.88	4.81	1.72	2.04	2.54	8	0.88	9.25	8.00	7.00	1.00	.75	4.75	5.25	133	10	155	12	194	17	12
6	12.50	1.44	8.50	9.88	10.38	11.00	5.76	2.06	2.31	2.62	12	0.88	10.62	9.38	8.12	1.00	.75	4.75	5.75	185	14	206	17	233	20	12
8	15.00	1.62	10.62	12.12	13.50	14.25	7.62	2.25	2.94	3.32	12	1.00	13.00	11.56	10.25	1.12	.88	5.50	6.25	255	20	324	28	364	32	12
10	17.50	1.88	12.75	14.25	15.12	16.25	9.56	2.35	2.78	3.35	16	1.12	15.25	13.62	12.62	1.25	1	6.25	7.25	425	25	498	31	591	38	16
12	20.50	2.00	15.00	16.25	17.38	18.25	11.38	2.44	3.00	3.44	16	1.25	17.75	15.94	14.75	1.38	1.13	6.25	7.50	532	30	636	38	720	45	16
14	23.00	2.12	16.25	19.38	20.12	22.25	14.00	2.69	3.06	4.13	20	1.25	20.25	18.44	16.75	1.38	1.13	7	7.75	681	40	761	47	996	67	16
16	25.50	2.25	18.50	22.25	23.25	24.12	16.00	3.13	3.63	4.06	20	1.38	22.50	20.50	19.00	1.50	1.25	7.50	8.50	877	53	988	63	1099	73	16
18	28.00	2.38	21.00	24.12	25.12	26.75	18.00	3.06	3.56	4.38	24	1.38	24.75	22.75	21.00	1.50	1.25	7.75	8.25	982	57	1102	68	1314	87	16
20	30.50	2.50	23.00	26.75	27.75	29.25	20.00	3.38	3.88	4.63	24	1.38	27.00	25.00	23.12	1.50	1.25	8.25	9.25	1176	70	1316	82	1525	101	16
24	36.00	2.75	27.25	30.75	32.00	33.62	24.00	3.38	4.00	4.81	24	1.62	32.00	29.62	27.62	1.75	1.50	9.25	10.25	1455	82	1647	100	1899	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" includes 0.06 inch raised face per ASME B16.5. This differs on Class 400 and above. 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