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Nom Size NPS	Flange O.D.	Flange Thick.	RF O.D.	Barrel O.D.			Bore	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	Stop Dia.	Relief Dia.	Relief Length	Size	RF Length	RTJ Length	l ₁		l ₂		l ₃		
				D	D	D		N	N	N		C	NS	NR	NL				Base	Per 1"	Base	Per 1"		Base	Per 1"	
1	4.25	0.56	2.00	2.75	3.25	4.00	0.96	0.90	1.15	1.52	4	.062	3.12	2.25	2.00	0.75	.50	2.50	3	19	1.5	26	2.2	38	3.4	12
1½	5.00	0.69	2.88	3.25	4.00	4.62	1.50	0.88	1.25	1.56	4	0.62	3.88	3.00	2.62	0.75	.50	2.75	3.25	25	1.9	37	3.1	49	4.3	12
2	6.00	0.75	3.62	4.00	4.62	5.50	1.94	1.03	1.34	1.78	4	0.75	4.75	3.69	3.06	0.88	.63	3.25	3.75	35	2.7	48	3.9	67	5.9	12
2½	7.00	0.88	4.12	4.62	5.75	6.00	2.32	1.15	1.72	1.84	4	0.75	5.50	4.44	3.75	0.88	.63	3.50	4	48	3.5	73	6	81	7	12
3	7.50	0.94	5.00	5.75	6.00	6.38	2.90	1.43	1.55	1.74	4	0.75	6.00	4.94	4.25	0.88	.63	3.50	4.25	69	5.5	75	6	85	7	12
3½	8.50	0.94	5.50	6.38	7.00	7.75	3.36	1.51	1.82	2.20	8	0.75	7.00	5.94	4.88	0.88	.63	3.5	4.25	83	7	102	8	126	11	12
4	9.00	0.94	6.19	7.00	7.75	8.25	3.83	1.59	1.96	2.21	8	0.75	7.50	6.44	5.50	0.88	.63	3.5	4.25	95	8	119	10	137	12	12
5	10.00	0.94	7.31	7.75	8.25	8.88	4.81	1.47	1.72	2.04	8	0.88	8.50	7.25	6.50	1.00	.75	3.75	4.50	104	8	121	10	144	12	12
6	11.00	1.00	8.50	8.88	9.88	10.38	5.76	1.56	2.06	2.31	8	0.88	9.50	8.25	7.75	1.00	.75	4	4.50	126	10	167	14	188	17	12
8	13.50	1.12	10.62	11.00	11.50	12.12	7.62	1.69	1.94	2.25	8	0.88	11.75	10.50	9.75	1.00	.75	4.25	4.75	180	14	205	17	236	20	12
10	16.00	1.19	12.75	13.50	14.25	15.12	9.56	1.97	2.35	2.78	12	1.00	14.25	12.81	12.00	1.12	.88	4.75	5.25	337	20	399	25	474	31	16
12	19.00	1.25	15.00	16.25	17.38	18.25	11.38	2.44	3.00	3.44	12	1.00	17.00	15.56	14.38	1.12	.88	4.75	5.50	494	30	606	38	696	45	16
14	21.00	1.38	16.25	18.25	19.38	20.12	14.00	2.13	2.69	3.06	12	1.12	18.75	17.12	16.00	1.25	1	5.25	6	501	31	622	40	705	47	16
16	23.50	1.44	18.50	20.12	21.00	22.25	16.00	2.06	2.50	3.13	16	1.12	21.25	19.62	18.00	1.25	1	5.50	6	562	33	666	41	820	53	16
18	25.00	1.56	21.00	22.25	23.25	24.12	18.00	2.13	2.63	3.06	16	1.25	22.75	20.94	20.00	1.38	1.13	6	6.50	624	38	751	48	864	57	16
20	27.50	1.69	23.00	24.12	25.00	26.25	20.00	2.06	2.50	3.13	20	1.25	25.00	23.19	22.00	1.38	1.13	6.25	7	684	41	804	50	978	64	16
24	32.00	1.88	27.25	27.75	29.25	30.75	24.00	1.88	2.63	3.38	20	1.38	29.50	27.50	26.25	1.50	1.25	7	7.75	772	43	1007	62	1246	82	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