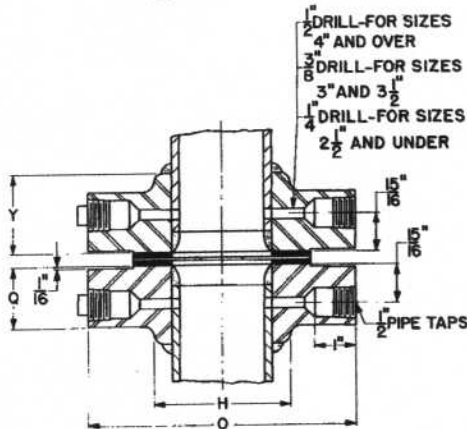
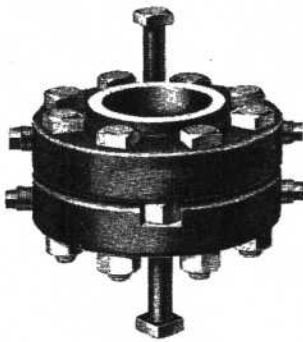


orifice slip-on

raised face



manufacture: ★Flanges furnished in carbon steel ASTM A105 in the following grades unless otherwise ordered:

class	size	A105 grade
300 lb	to 24 inch	I
300 lb	26 inch and up	II

ASTM A105 is same as ASME Boiler Construction Code Specification SA 105. Flanges furnished as complete unions unless otherwise ordered. Tapped openings are provided with carbon steel pipe plugs. 300 lb slip-on unions conform to recommendations of American Gas Association. Orifice plate is not included. Two carbon steel jack screw bolts furnished with each union.

dimensions: All dimensions in inches.

pressure-temperature ratings: See page wff-93.

footnotes: †Unions 24 inch and smaller furnished with carbon steel, regular square head bolts with semi-finished American Standard heavy series hex nuts and two compressed asbestos gaskets. Unions 26 inch and larger furnished with alloy stud bolts per ASTM A193 grade B7 with American heavy series hex nuts ASTM A194 class 2H; gaskets not furnished. Lengths of stud bolts include thickness of two nuts, but do not include height of points.

+ $\frac{1}{16}$ inch raised face thickness included in Q and Y.

nomi- nal pipe size	outside diam. of flange O	thick- ness of flange Q+	diam. of hub H	length through hub Y+	diam. of raised face	diam. of bore	depth of jack screw slot	jack screw size	num- ber of bolt holes	diam. of bolt holes	diam. of bolts	length of bolts†	bolt circle	weight (approx) per union lb
300 lb														
1	4 $\frac{7}{8}$	1 $\frac{1}{2}$	2 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{16}$	1.36	$\frac{3}{8}$		4	$\frac{1}{16}$	$\frac{5}{8}$	4	3 $\frac{1}{2}$	15
1 $\frac{1}{4}$	5 $\frac{1}{4}$	1 $\frac{1}{2}$	2 $\frac{1}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{16}$	1.70	$\frac{3}{8}$		4	$\frac{1}{16}$	$\frac{5}{8}$	4	3 $\frac{3}{8}$	17
1 $\frac{1}{2}$	6 $\frac{1}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{16}$	1.95	$\frac{1}{2}$		4	$\frac{1}{16}$	$\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	19
2	6 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{3}{16}$	1 $\frac{1}{16}$	4 $\frac{5}{16}$	2.44	$\frac{3}{8}$		8	$\frac{1}{16}$	$\frac{5}{8}$	4	5	23
2 $\frac{1}{2}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{8}$	2	5 $\frac{1}{16}$	2.94	$\frac{1}{2}$		8	$\frac{1}{16}$	$\frac{3}{4}$	4 $\frac{1}{4}$	5 $\frac{7}{8}$	31
3	8 $\frac{1}{4}$	1 $\frac{1}{2}$	4 $\frac{1}{8}$	2 $\frac{1}{16}$	5 $\frac{1}{16}$	3.57	$\frac{1}{2}$		8	$\frac{1}{16}$	$\frac{3}{4}$	4 $\frac{1}{4}$	6 $\frac{3}{8}$	39
4	10	1 $\frac{1}{2}$	5 $\frac{1}{4}$	2 $\frac{3}{8}$	7 $\frac{1}{16}$	4.57	$\frac{1}{2}$		8	$\frac{1}{16}$	$\frac{3}{4}$	4 $\frac{1}{4}$	7 $\frac{7}{8}$	60
5	11	1 $\frac{1}{2}$	7	2 $\frac{3}{8}$	8 $\frac{3}{8}$	5.66	$\frac{1}{2}$		8	$\frac{7}{8}$	$\frac{3}{4}$	4 $\frac{1}{4}$	9 $\frac{1}{4}$	70
6	12 $\frac{1}{2}$	1 $\frac{1}{2}$	8 $\frac{3}{8}$	2 $\frac{3}{8}$	9 $\frac{3}{4}$	6.72	$\frac{1}{2}$		12	$\frac{7}{8}$	$\frac{3}{4}$	4 $\frac{1}{4}$	10 $\frac{3}{8}$	100
8	15	1 $\frac{3}{8}$	10 $\frac{1}{4}$	2 $\frac{3}{16}$	12	8.72	$\frac{5}{8}$		12	1	$\frac{7}{8}$	4 $\frac{1}{2}$	13	134
10	17 $\frac{1}{2}$	1 $\frac{7}{8}$	12 $\frac{3}{8}$	2 $\frac{3}{8}$	14 $\frac{1}{8}$	10.88	$\frac{3}{4}$		16	1 $\frac{1}{8}$	1	5 $\frac{1}{2}$	15 $\frac{1}{4}$	196
12	20 $\frac{1}{2}$	2	14 $\frac{3}{4}$	2 $\frac{3}{8}$	16 $\frac{1}{2}$	12.88	$\frac{7}{8}$		16	1 $\frac{1}{4}$	1 $\frac{1}{8}$	5 $\frac{1}{2}$	17 $\frac{3}{4}$	281
14	23	2 $\frac{1}{8}$	16 $\frac{3}{4}$	3	19	14.14	$\frac{7}{8}$		20	1 $\frac{1}{4}$	1 $\frac{1}{8}$	6	20 $\frac{1}{4}$	380
16	25 $\frac{1}{2}$	2 $\frac{1}{4}$	19	3 $\frac{1}{4}$	21 $\frac{1}{8}$	16.16	1		20	1 $\frac{3}{8}$	1 $\frac{1}{4}$	6 $\frac{1}{2}$	22 $\frac{1}{2}$	530
18	28	2 $\frac{3}{8}$	21	3 $\frac{1}{2}$	23 $\frac{3}{8}$	18.18	1		24	1 $\frac{3}{8}$	1 $\frac{1}{4}$	6 $\frac{1}{2}$	24 $\frac{3}{4}$	691
20	30 $\frac{1}{2}$	2 $\frac{1}{2}$	23 $\frac{3}{8}$	3 $\frac{3}{4}$	25 $\frac{5}{8}$	20.20	1		24	1 $\frac{3}{8}$	1 $\frac{1}{2}$	7	27	781
22	33	2 $\frac{5}{8}$	25 $\frac{1}{4}$	4	25 $\frac{1}{4}$	22.22	1 $\frac{1}{4}$		24	1 $\frac{3}{8}$	1 $\frac{1}{2}$	7 $\frac{1}{2}$	29 $\frac{1}{4}$	1045
24	36	2 $\frac{3}{4}$	27 $\frac{3}{8}$	4 $\frac{3}{16}$	27 $\frac{1}{4}$	24.25	1 $\frac{1}{4}$		24	1 $\frac{5}{8}$	1 $\frac{1}{2}$	7 $\frac{1}{2}$	32	1201
26	38 $\frac{1}{4}$	3 $\frac{1}{8}$	27 $\frac{1}{8}$	7 $\frac{1}{4}$	29 $\frac{1}{2}$	26.25	$\frac{7}{8}$	1x4 $\frac{3}{4}$	28	1 $\frac{3}{4}$	1 $\frac{3}{8}$	10 $\frac{1}{2}$	34 $\frac{1}{2}$	1380
30	43	3 $\frac{5}{8}$	31 $\frac{3}{8}$	8 $\frac{1}{4}$	33 $\frac{3}{4}$	30.25	$\frac{7}{8}$	1x5 $\frac{1}{4}$	28	1 $\frac{7}{8}$	1 $\frac{3}{4}$	11 $\frac{1}{4}$	39 $\frac{1}{4}$	1910
34	47 $\frac{1}{2}$	4	35 $\frac{3}{8}$	9 $\frac{1}{8}$	38	34.25	$\frac{7}{8}$	1x5 $\frac{1}{2}$	28	2	1 $\frac{7}{8}$	12 $\frac{3}{4}$	43 $\frac{1}{2}$	2450
36	50	4 $\frac{1}{8}$	37 $\frac{3}{8}$	9 $\frac{1}{2}$	40 $\frac{1}{4}$	36.25	$\frac{7}{8}$	1x5 $\frac{3}{4}$	32	2 $\frac{1}{8}$	2	13 $\frac{1}{4}$	46	2850
42	57	4 $\frac{5}{8}$	43 $\frac{1}{2}$	10 $\frac{1}{8}$	47	42.25	$\frac{7}{8}$	1x6 $\frac{1}{4}$	36	2 $\frac{1}{8}$	2	14 $\frac{1}{4}$	52 $\frac{1}{4}$	3910

Two extra carbon steel bolts are furnished to be used as jack screws for sizes 1 through 24.