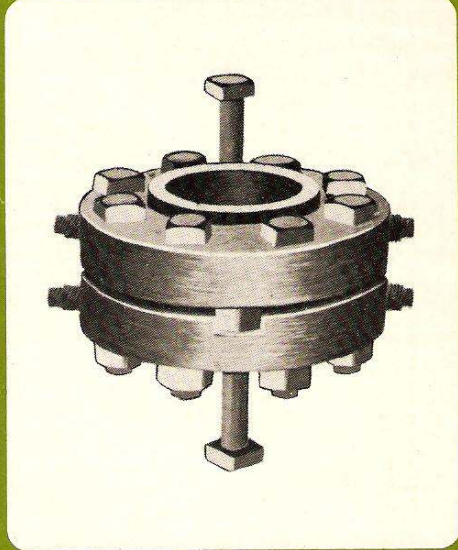
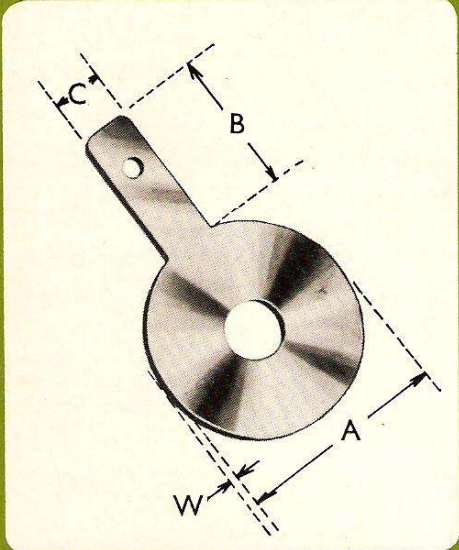
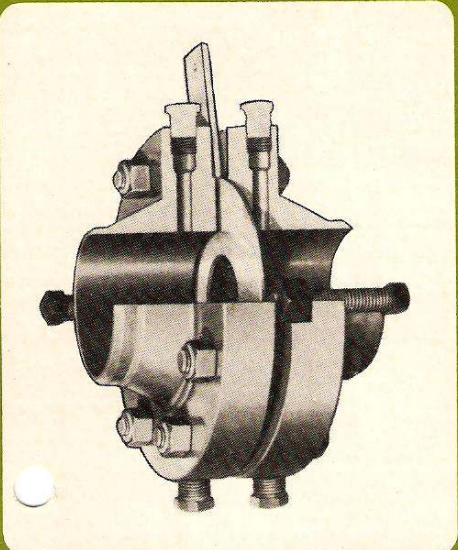


VENAFLO

ORIFICE PLATE ASSEMBLIES



Weldneck, Screwed, Slip-on forged flanges

- Flange taps, Vent and drain ● Orifice Plate of SS, Monel with tag ●
- Plate design as per B.S./A.P.I. STD., H.T. Bolts and Nuts ● Jack Screw Provision ●

Nom. Pipe Size Inch.	A Inches + 1/64								B Inches + 1 - 0			C Inch. ± 1/64	E Eccentricity Inch. ± 0.004	F Inch.	R Inch. + 0.000 - 1/16	T Inch. + 0.000 - 0.010	W Inch. Note 5	Nom. pipe Size Inch.														
	25 lb.	125 lb. 150 lb.	250 lb. 300 lb.	400 lb.	600 lb.	900 lb.	1500 lb.	2500 lb.	25-900 lb.	1500 lb.	2500 lb.																					
1	—	2-5/8	2-7/8	2-7/8	2-7/8	3-1/8	3-1/8	3-3/8	3	3	—	$E = \frac{(D-d)}{2} - 0.01 D$	F = 0.98 D	R = K (D-G)	0.020	Min. 0.115	1															
1-1/4	—	3	3-1/4	3-1/4	3-1/4	3-1/2	3-1/2	4-1/8									1-1/4															
1-1/2	—	3-3/8	3-3/4	3-3/4	3-3/4	3-7/8	3-7/8	4-5/8									1-1/2															
2	—	4-1/8	4-3/8	4-3/8	4-3/8	5-5/8	5-5/8	5-3/4							3-1/2	3-1/2	—	F = 0.98 D	R = K (D-G)	1/32	Nom. 0.125	2										
2-1/2	—	4-7/8	5-1/8	5-1/8	5-1/8	6-1/2	6-1/2	6-5/8														2-1/2										
3	—	5-3/8	5-7/8	5-7/8	5-7/8	6-5/8	6-7/8	7-3/4														3										
3-1/2	—	6-3/8	6-1/2	6-3/8	6-3/8	—	—	—												3-1/2	3-1/2	—	F = 0.98 D	R = K (D-G)	1/16	Max. 0.130	3-1/2					
4	6-7/8	6-7/8	7-1/8	7	7-5/8	8-1/8	8-1/4	9-1/4																			4					
5	7-7/8	7-3/4	8-1/2	8-3/8	9-1/2	9-3/4	10	11																			4					
6	8-7/8	8-3/4	9-7/8	9-3/4	10-1/2	11-3/8	11-1/8	12-1/2																	3-1/2	3-1/2	—	F = 0.98 D	R = K (D-G)	1/8 No Bevel	Nom. 0.125	4
8	11-1/8	11	12-1/8	12	12-5/8	14-1/8	13-7/8	15-1/4																								5
10	13-5/8	13-3/8	14-1/4	14-1/8	15-3/4	17-1/8	17-1/8	18-3/4																								5
12	16-3/8	16-1/8	16-5/8	16-1/2	18	19-5/8	20-1/2	21-5/8	3-1/2	3-1/2	—	F = 0.98 D	R = K (D-G)	1/4 No Bevel																Max. 0.135	6	
14	18	17-3/4	19-1/8	—	—	—	—	—																							6	
16	20-1/2	20-1/4	21-1/4	—	—	—	—	—																							8	
18	22	21-5/8	23-1/2	—	—	—	—	—						3-1/2	3-1/2	—	F = 0.98 D	R = K (D-G)	1/4 No Bevel											Nom. 0.250	8	
20	24-1/4	23-7/8	25-3/4	—	—	—	—	—																							10	
24	28-3/4	28-1/4	30-1/2	—	—	—	—	—																							12	
24	28-3/4	28-1/4	30-1/2	—	—	—	—	—												14												
16	20-1/2	20-1/4	21-1/4	—	—	—	—	—						3-1/2	3-1/2	—	F = 0.98 D	R = K (D-G)	1/4 No Bevel	Max. 0.260	16											
18	22	21-5/8	23-1/2	—	—	—	—	—													18											
20	24-1/4	23-7/8	25-3/4	—	—	—	—	—													20											
24	28-3/4	28-1/4	30-1/2	—	—	—	—	—													24											

F : Dia of Segmental Orifice Plate Bore.
 R : Radius of Vent holes.
 T : Length of straight bore, before Bevel at 45 degrees.
 G : Dia of Vent/Drain holes.

SPECIFICATIONS

1. FLANGE : CS, SS, A-105, CL I, CL II, A 181, A 182, IS 2002.
2. FLANGE RATING : 150#, 300#, 400#, 600#, 900#, 1500#
3. ORIFICE PLATE : SS 304, SS 316, MONEL, etc.
4. ORIFICE TYPE : a) Sharp edge-straight. b) Bevel edge. c) Concentric. d) Eccentric. e) Segmental.
5. DRAIN & VENT HOLES : Provided on request
6. FLANGE TAPS : Two taps at 180 degree $\frac{1}{2}$ " BSP/NPT/BSPT (F) 2 Nos. per flange at $15/16$ " from raised face.
Drill size : $\frac{1}{4}$ " Φ -for under $2\frac{1}{2}$ " $\frac{3}{8}$ " Φ -for 3" & $3\frac{1}{2}$ " $\frac{1}{2}$ " Φ -for 4" & over.
7. JACK SCREWS : Two dog-point bolts on one flange at 180 degrees to facilitate removal of plate.
8. GASKETS : CAF, PTFE, Spiral-wound, Ring Joint etc.

ORIFICE FLANGE DIMENSIONS

SIZE	150 #			300 #			600 #			900 # (1500 upto 2 1/2")		
	O	Y	Y1	O	Y	Y1	O	Y	Y1	O	Y	Y1
1	4-1/4	1-1/8	3	4-7/8	1-7/8	3-1/4	4-7/8	1-7/8	3-1/4	5-7/8	1-7/8	3-1/4
1-1/2	5	1-1/8	3	6-1/8	1-7/8	3-3/8	6-1/8	1-7/8	3-3/8	7	1-7/8	3-1/2
2	6	1-1/8	3-1/8	6-1/2	1-15/16	3-3/8	6-1/2	1-15/16	3-3/8	8-1/2	2-1/4	4-1/4
2-1/2	7	1-1/4	3-1/8	7-1/2	2	3-1/2	7-1/2	2	3-1/2	9-5/8	2-1/2	4-3/8
3	7-1/2	1-3/8	3-1/4	8-1/4	2-1/16	3-1/2	8-1/4	2-1/16	3-1/2	9-1/2	2-1/8	4-1/4
4	9	1-1/2	3-3/8	10	2-1/8	3-5/8	10-3/4	2-1/8	4-1/4	11-1/2	2-3/4	4-3/4
6	11	1-5/8	3-1/2	12-1/2	2-1/8	3-15/16	14	2-5/8	4-7/8	15	3-3/8	5-3/4
8	13-1/2	1-3/4	4	15	2-7/16	4-3/8	16-1/2	3	5-1/2	18-1/2	4	6-5/8
10	16	1-15/16	4	17-1/2	2-5/8	4-5/8	20	3-3/8	6-1/4	21-1/2	4-1/4	7-1/2
12	19	2-3/16	4-1/2	20-1/2	2-7/8	5-1/8	22	3-5/8	6-3/8	24	4-5/8	8-1/8
16	23-1/2	2-1/2	5	25-1/2	3-1/4	5-3/4	—	—	—	—	—	—
20	27-1/2	2-7/8	5-11/16	30-1/2	3-3/4	6-3/8	—	—	—	—	—	—
24	32	3-1/4	6	36	4-3/16	6-5/8	—	—	—	—	—	—

O : O.D. of Flange

Y : Length through Hub for Slip-on and Threaded Flanges

Y1 : Length through Hub for Weld-Neck Flanges

Raised-Face thickness : $1/16$ " - Included in Y for 150, 300,

$1/4$ " - Not included in Y for 400, 600, 900, 1500.

$1/16$ " - Included in Y1.



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