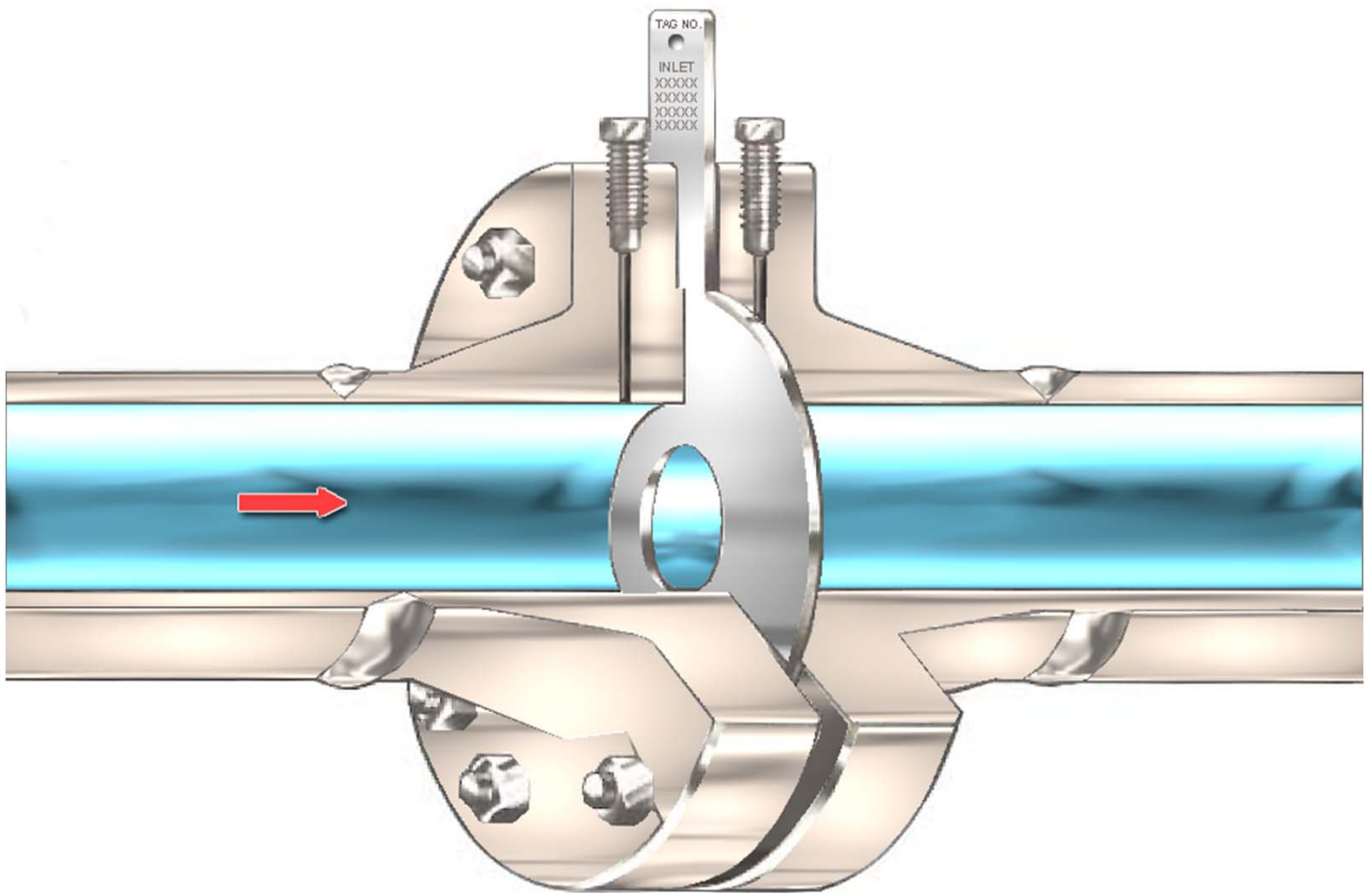


# ORIFICE PLATE AND FLANGE UNIONS



**Energy Flow Corporation, Ltd**

No.153, Xiansheng Rd. Zuoying Dist. Kaohsiung City Taiwan

TEL: 886-7-588-0500, FAX: 0886-7-588-9539, E-mail :mark.flowmax@msa.hinet.net

**Intertek**



014  
ISO 9001:2008

# ORIFICE PLATES & ORIFICE FLANGE UNIONS



## ORIFICE PLATES

Energy Flow orifice plates are manufactured in accordance with ISO-5167, A.G.A. and A.S.M.E recommendations.

Energy Flow orifice plates are available in the paddle handle type as described on page 3 for use with raised face orifice flange unions and the ring joint type plates and holders as described on page 4 for use with RTJ orifice flange unions.

Standard materials of construction are 304 or 316SS with other materials such as Monel and Hastelloy C or D available as required.

Energy Flow orifice plates may be supplied with concentric, eccentric, segmental or quadrant edge bores as required.

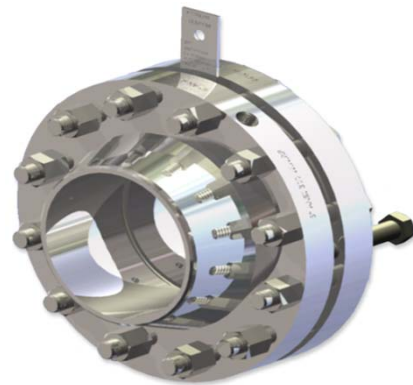
### WHEN ORDERING PLEASE SPECIFY:

Line size \_\_\_\_\_ & flange rating \_\_\_\_\_ #  
 Plate material \_\_\_\_\_ & thickness \_\_\_\_\_  
 Bore size \_\_\_\_\_ (If Energy Flow is to calculate orifice bore, the following flow data is required).

Meter type dry \_\_\_\_\_ or Hg \_\_\_\_\_  
 Meter tap (type) \_\_\_\_\_  
 Meter differential range \_\_\_\_\_ "WC  
 Pipe I.D. \_\_\_\_\_ or  
 Line size \_\_\_\_\_ & Pipe Schedule \_\_\_\_\_  
 Fluid \_\_\_\_\_  
 Units of flow \_\_\_\_\_  
 Max flow \_\_\_\_\_ Normal flow \_\_\_\_\_  
 Specific gravity:  
 Operating \_\_\_\_\_ Base \_\_\_\_\_  
 Temperature:  
 Operating \_\_\_\_\_ Base \_\_\_\_\_  
 Pressure Operating \_\_\_\_\_

If liquid specify:  
 Viscosity @ Operating temperature \_\_\_\_\_

If gas specify.  
 Molecular weight \_\_\_\_\_  
 Base pressure \_\_\_\_\_  
 Gas composition \_\_\_\_\_ or  
 Specific heat ratio \_\_\_\_\_ and  
 Compressibility ratio (Zf) \_\_\_\_\_



## ORIFICE FLANGE UNIONS

Energy Flow orifice flange unions are furnished in A.S.T.M. A182 and A105 to conform to ASME/ANSI. B16.36 Flange Piping Code. Other materials such as stainless steel, P.V.C. and fiberglass are Available as required.

Stud bolts are furnished with all orifice flange unions and are made in accordance with A.S.T.M., A193-Grade B7 alloy Steel.

Hexagonal nuts are supplies for each stud and are manufactured in accordance with A.S.T.M. A194 Grade-2 Halloy steel.

Jackscrews are A.S.T.M. A307 heat treated carbon steel.

Pipe plugs are hex head forged steel.

Two 1/8" thick asbestos gaskets are furnished with all raised face orifice flange unions. Other gasket materials are available as required.

Bore tolerance are within A.G.A. recommendations for .75 Beta ratio.

Pressure tap hole locations are 180° apart. Tap hole centers are 15/16" from bearing faces of flanges, placing their center line 1" from face of orifice plate when 1/18" gasket thickness is included.

Standard connections are 1/2" N.P.T. other sizes on request.

### WHEN ORDERING PLEASE SPECIFY :

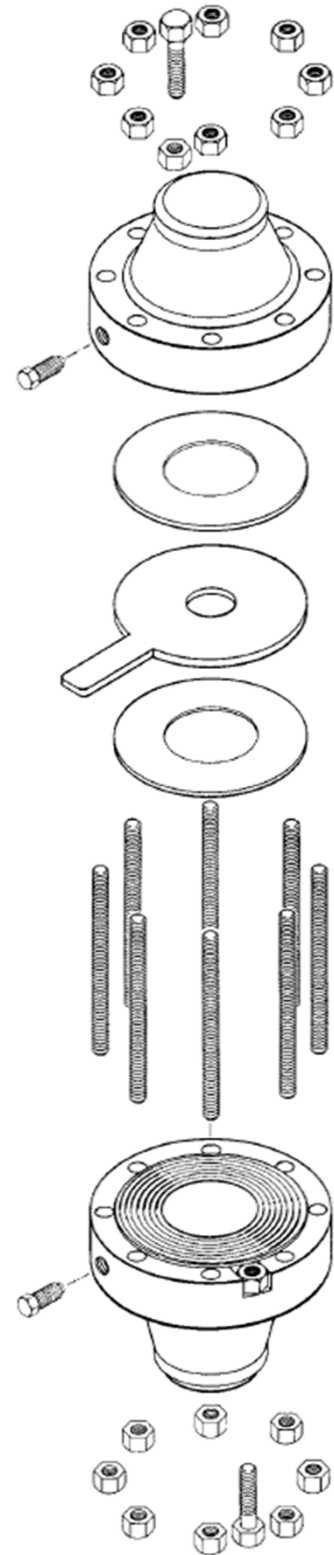
1. Line size and pipe schedule
2. Flange rating and type
3. Flange material
4. Tap location
5. Tap connections

Orifice plates must be ordered separately.

## MAINTENANCE & INSTALLATION INSTRUCTIONS

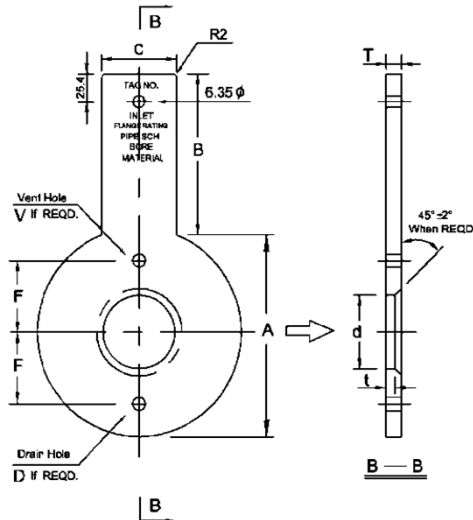
### TO INSTALL OR REMOVE ORIFICE PLATE :

- 1 . Make certain the pipeline is not under pressure and has been properly drained or purged as required.
- 2 . Loosen all studs.
- 3 . Remove the studs in one half of the flange union.
- 4 . Spread flange union by turning jackscrews clock-wise.
- 5 . Install new plate or remove existing plate for replacement or inspection.
- 6 . Install new gaskets when installing plate.  
We recommend installing new gaskets each time orifice flange union is separated.
- 7 . Release the flange union by turning jackscrews counter clockwise.
- 8 . Replace studs.
- 9 . Tighten studs starting with two studs opposite each other.



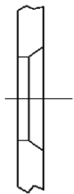
# PADDLE TYPE SQUARE EDGE ORIFICE PLATE SERIES PT-500

FOR USE WITH SANDARD RAISED FACE ORIFICE FLANGE UNIONS



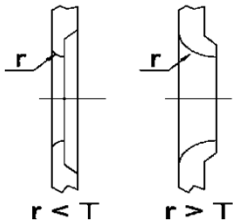
Line Size	ANSI 150#	ANSI 300#	ANSI 600#	ANSI 900#	ANSI 1500#	ANSI 2500#	For All Pressure Rating			
	A						B	C	T	t
	(±0.40)						(-0,+10)	(±0.40)	(±0.25)	(+0,-0.10)
1/2"	47.63	53.98	53.98	63.55	63.55	69.85	101.60	25.40	3.00	0.30
3/4"	57.15	66.68	66.68	69.85	69.85	76.25	101.60	25.40	3.00	0.30
1"	66.68	73.03	73.03	79.38	79.38	85.78	101.60	25.40	3.00	0.40
1-1/2"	85.73	95.25	95.25	98.43	98.43	117.48	101.60	25.40	3.00	0.50
2"	104.78	111.13	111.13	142.88	142.88	146.05	101.60	25.40	3.00	0.80
2-1/2"	123.80	130.17	130.17	165.10	165.10	168.27	101.60	31.75	3.00	0.80
3"	136.53	149.23	149.23	168.28	174.63	196.85	101.60	31.75	3.00	0.80
4"	174.63	180.98	193.68	206.38	209.55	234.95	101.60	31.75	3.00	1.50
5"	196.85	215.95	241.30	247.65	254.00	279.40	127.00	38.10	3.00	1.50
6"	222.25	250.83	266.70	288.93	282.58	317.50	127.00	38.10	3.00	1.50
8"	279.40	307.98	320.68	358.78	352.43	387.35	127.00	38.10	6.00	3.00
10"	339.73	361.95	400.05	434.98	434.98	476.25	152.40	38.10	6.00	3.00
12"	409.58	422.28	457.20	498.48	520.70	549.28	152.40	38.10	6.00	3.00
14"	450.85	485.78	492.13	520.70	577.85	—	152.40	38.10	6.00	3.00
16"	514.35	539.75	565.15	574.68	641.35	—	152.40	38.10	10.00	6.00
18"	549.30	596.95	609.60	635.00	701.68	—	152.40	38.10	10.00	6.00
20"	606.40	654.05	679.45	695.33	752.48	—	152.40	38.10	10.00	6.00
22"	660.40	704.85	733.43	—	—	—	152.40	38.10	10.00	6.00
24"	717.55	774.70	790.58	835.03	901.70	—	152.40	38.10	10.00	6.00
30"	879.48	952.55	971.60	—	—	—	152.40	38.10	12.00	6.00
36"	1044.58	1114.43	1127.13	—	—	—	152.40	38.10	12.00	6.00

**Concentric Square Edged**



General use in clean fluids.

**Quadrant Edged**



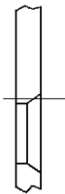
Measurement of Reynolds Numbers below 6,000

**Conical Entrance**



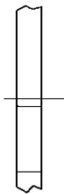
Measurement of Reynolds Numbers

**Segmental**



Measurement of fluids with solids

**Eccentric**



Measurement of fluids with slurries or solids

**Restriction**



Pressure reducing devices or to limit flow rate



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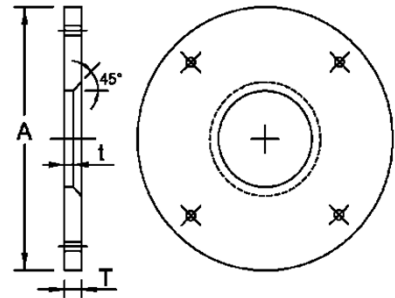
ISO 9001:2008

# UNIVERSAL TYPE ORIFICE PLATES

FOR USE WITH RING JOINT REMOVABLE ORIFICE PLATE HOLDERS

Unit : mm

Dimensions (300#~ 600#)						Dimensions (900#)					
Size	A	T	Size	A	T	Size	A	T	Size	A	T
1/2"	25	3.0	10"	310	6.0	1/2"	29	3.0	10"	310	6.0
3/4"	32	3.0	12"	367	6.0	3/4"	34	3.0	12"	367	6.0
1"	40	3.0	14"	405	6.0	1"	40	3.0	14"	401	6.0
1-1/2"	58	3.0	16"	456	6.0	1-1/2"	58	3.0	16"	452	6.0
2"	69	3.0	18"	520	10.0	2"	82	3.0	18"	512	10.0
2-1/2"	88	3.0	20"	569	10.0	2-1/2"	94	3.0	20"	563	10.0
3"	110	3.0	24"	674	10.0	3"	110	3.0	24"	664	10.0
4"	136	3.0	26"	728	10.0	4"	136	3.0			
5"	167	3.0	28"	779	10.0	5"	167	3.0			
6"	198	3.0	30"	836	12.0	6"	198	3.0			
8"	256	6.0	32"	890	12.0	8"	256	6.0			

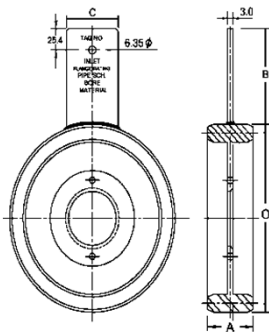


# RING JOINT TYPE PLATE HOLDERS

FOR USE WITH RING JOINT ORIFICE FLANGES

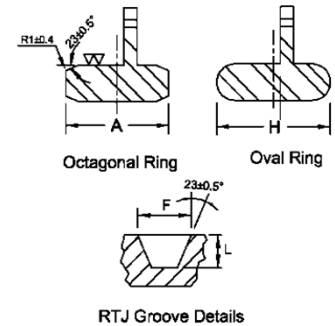
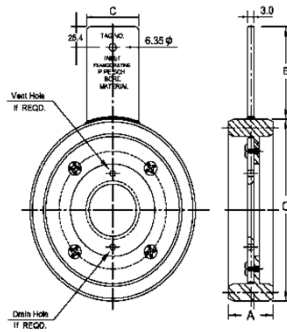
Series IPH-100

Integral Plate Type Holder



Series RPH-200

Removable Plate Type Holder



Unit: mm

Line Size	ANSI Class 300# ~ 600#								ANSI Class 900#							
	A.P.I.	A	H	B	O	C	F	L	A.P.I.	A	H	B	O	C	F	L
	Ring No.						Width	Depth	Ring No.						Width	Depth
1/2"	R-11	23.02	23.02	110.0	40.46	25.4	7.1	5.6	R-12	25.40	25.40	110.0	47.63	25.4	8.7	6.4
3/4"	R-13	25.40	25.40	110.0	50.80	25.4	8.7	6.4	R-14	25.40	25.40	110.0	52.40	25.4	8.7	6.4
1"	R-16	25.40	25.40	110.0	58.75	25.4	8.7	6.4	R-16	25.40	25.40	110.0	58.75	25.4	8.7	6.4
1-1/2"	R-20	25.40	25.40	110.0	76.20	25.4	8.7	6.4	R-20	25.40	25.40	110.0	76.20	25.4	8.7	6.4
2"	R-23	27.00	27.00	110.0	93.68	25.4	11.9	7.9	R-24	27.00	27.00	110.0	106.38	25.4	11.9	7.9
2-1/2"	R-26	27.00	27.00	110.0	112.73	31.8	11.9	7.9	R-27	27.00	27.00	110.0	119.08	31.8	11.9	7.9
3"	R-31	27.00	27.00	110.0	134.95	31.8	11.9	7.9	R-31	27.00	27.00	110.0	134.95	31.8	11.9	7.9
3-1/2"	R-34	27.00	27.00	110.0	142.88	31.8	11.9	7.9	—	—	—	—	—	—	—	—
4"	R-37	27.00	27.00	120.0	160.35	31.8	11.9	7.9	R-37	27.00	27.00	120.0	160.35	31.8	11.9	7.9
5"	R-41	27.00	27.00	140.0	192.10	31.8	11.9	7.9	R-41	27.00	27.00	140.0	192.10	31.8	11.9	7.9
6"	R-45	27.00	27.00	140.0	222.25	38.1	11.9	7.9	R-45	27.00	27.00	140.0	222.25	38.1	11.9	7.9
8"	R-49	31.80	31.80	140.0	281.00	38.1	11.9	7.9	R-49	30.20	30.20	140.0	281.00	38.1	11.9	7.9
10"	R-53	31.80	31.80	160.0	333.20	38.1	11.9	7.9	R-53	30.20	30.20	160.0	334.98	38.1	11.9	7.9
12"	R-57	31.80	31.80	160.0	392.13	38.1	11.9	7.9	R-57	30.20	30.20	160.0	392.13	38.1	11.9	7.9
14"	R-61	30.20	30.20	160.0	430.23	38.1	11.9	7.9	R-62	36.51	36.51	160.0	434.98	38.1	16.7	11.1
16"	R-65	33.34	33.34	180.0	481.03	38.1	11.9	7.9	R-66	39.69	36.69	180.0	485.78	38.1	16.7	11.1
18"	R-69	33.34	33.34	180.0	544.53	38.1	11.9	7.9	R-70	42.86	42.86	180.0	552.45	38.1	19.8	12.7
20"	R-73	34.93	34.93	180.0	596.90	38.1	13.5	9.5	R-74	39.69	39.69	180.0	603.25	38.1	19.8	12.7
24"	R-77	39.69	39.69	220.0	708.03	38.1	16.7	11.1	R-78	50.80	50.80	220.0	717.55	38.1	27.0	15.9

### 300# ORIFICE FLANGE UNION DIMENSIONS

Line	A.O.D.	B. Flange	Y Flange	C	D	D1	E	E1	E2	F	F1	Face	G
Size	Flange	Thickness	Thickness	Thickness	Bore	Bore	Length	Length	Length	Dia	Dia	Dia	Dia
1/2 "	3-3/4	1-1/2	1-1/4	1/16	Per Customer Specifications	0.88	3	1-13/16	3	0.84	1-1/2	1-3/8	1-11/32
1 "	4-7/8	1-1/2	1-1/4	1/16		1.36	3-1/4	1-7/8	3	1.32	2-1/8	2	2
1-1/4 "	5-1/4	1-1/2	1-1/4	1/16		1.70	3-5/16	1-13/16	3-1/16	1.66	2-1/2	2-1/2	2-3/8
1-1/2 "	6-1/8	1-1/2	1-1/4	1/16		1.95	3-3/8	1-7/8	3-1/8	1.90	2-3/4	2-7/8	2-11/16
2 "	6-1/2	1-1/2	1-1/4	1/16		2.44	3-3/8	1-15/16	3-1/8	2.38	3-5/16	3-5/8	3-1/4
2-1/2 "	7-1/2	1-1/2	1-1/4	1/16		2.94	3-1/2	2	3-1/4	2.88	3-15/16	4-1/8	4
3 "	8-1/4	1-1/2	1-1/4	1/16		3.57	3-1/2	2-1/16	3-1/4	3.50	4-5/8	5	4-7/8
4 "	10	1-1/2	1-1/4	1/16		4.57	3-5/8	2-1/8	3-3/8	4.50	5-3/4	6-3/16	5-7/8
5 "	11	1-1/2	1-3/8	1/16		5.66	4	2-1/8	3-7/8	5.56	7	7-5/16	7-1/8
6 "	12-1/2	1-1/2	1-7/16	1/16		6.72	3-15/16	2-1/8	3-7/8	6.63	8-1/8	8-1/2	8-5/16
8 "	15	1-5/8	1-5/8	1/16		8.72	4-3/8	2-7/16	4-3/8	8.63	10-1/4	10-5/8	10-5/8
10 "	17-1/2	1-7/8	1-7/8	1/16		10.88	4-5/8	2-5/8	4-5/8	10.75	12-5/8	12-3/4	12-3/4
12 "	20-1/2	2	2	1/16		12.88	5-1/8	2-7/8	5-1/8	12.75	14-3/4	15	15
14 "	23	2-1/8	2-1/8	1/16		14.14	5-5/8	3	5-5/8	14.00	16-3/4	16-1/4	16-1/2
16 "	25-1/2	2-1/4	2-1/4	1/16		16.16	5-3/4	3-1/4	5-3/4	16.00	19	18-1/2	18-1/2
18 "	28	2-3/8	2-3/8	1/16		18.18	6-1/4	3-1/2	6-1/4	18.00	21	21	21
20 "	30-1/2	2-1/2	2-1/2	1/16		20.20	6-3/8	3-3/4	6-3/8	20.00	23-1/8	23	23
24 "	36	2-3/4	2-3/4	1/16		24.25	6-5/8	4-3/16	6-5/8	24.00	27-5/8	27-1/4	27-1/4

### 600# ORIFICE FLANGE UNION DIMENSIONS

Line	A.O.D.	B. Flange	Y Flange	C	D	D1	E	E1	E2	F	F1	Face	G
Size	Flange	Thickness	Thickness	Thickness	Bore	Bore	Length	Length	Length	Dia	Dia	Dia	Dia
1/2 "	3-3/4	1-1/2	1-1/4	1/16	Per Customer Specifications	0.88	3	1-13/16	3	0.84	1-1/2	1-3/8	1-11/32
1 "	4-7/8	1-1/2	1-1/4	1/16		1.36	3-1/4	1-7/8	3	1.32	2-1/8	2	2
1-1/4 "	5-1/4	1-1/2	1-1/4	1/16		1.70	3-15/16	1-13/16	3-1/16	1.66	2-1/2	2-1/2	2-3/8
1-1/2 "	6-1/8	1-1/2	1-1/4	1/16		1.95	3-3/8	1-7/8	3-1/8	1.90	2-3/4	2-7/8	2-11/16
2 "	6-1/2	1-1/2	1-1/4	1/16		2.44	3-3/8	1-15/16	3-1/8	2.38	3-5/16	3-5/8	3-1/4
2-1/2 "	7-1/2	1-1/2	1-1/4	1/16		2.94	3-1/2	2	3-1/4	2.88	3-15/16	4-1/8	4
3 "	8-1/4	1-1/2	1-1/4	1/16		3.57	3-1/2	2-1/16	3-1/4	3.50	4-5/8	5	4-7/8
4 "	10-3/4	1-3/4	1-1/2	1/4		4.57	4-1/4	2-3/8	4	4.50	6	6-3/16	5-7/8
5 "	13	2	1-3/4	1/4		5.66	4-3/4	2-5/8	4-1/2	5.56	7-7/16	7-5/16	7-1/8
6 "	14	2-1/8	1-7/8	1/4		6.72	4-7/8	2-7/8	4-5/8	6.63	8-3/4	8-1/2	8-15/16
8 "	16-1/2	2-7/16	2-3/16	1/4		8.72	5-1/2	3-1/4	5-1/4	8.63	10-3/4	10-5/8	10-5/8
10 "	20	2-3/4	2-1/2	1/4		10.88	6-1/4	3-5/8	6	10.75	13-1/2	12-3/4	12-3/4
12 "	22	2-7/8	2-5/8	1/4		12.88	6-3/8	3-7/8	6-1/8	12.75	15-3/4	15	15
14 "	23	3	2-3/4	1/4		14.14	6-3/4	3-15/16	6-9/16	14.00	17	16-1/4	16-1/2
16 "	23-3/4	3-1/4	3	1/4		16.16	7-1/4	4-7/16	7-1/16	16.00	19-1/2	18-1/2	18-1/2
18 "	27	3-1/2	3-1/4	1/4		18.18	7-1/2	4-7/8	7-15/16	18.00	21-1/2	21	21
20 "	29-1/4	3-3/4	3-1/2	1/4		20.20	7-3/4	5-1/4	7-5/8	20.00	24	23	23
24 "	32	4-1/4	4	1/4		24.25	8-1/4	5-3/4	8-3/16	24.00	28-1/4	27-1/4	27-1/4

### 900# ORIFICE FLANGE UNION DIMENSIONS

Line	A.O.D.	B. Flange	Y Flange	C	D	D1	E	E1	E2	F	F1	Face	G
Size	Flange	Thickness	Thickness	Thickness	Bore	Bore	Length	Length	Length	Dia	Dia	Dia	Dia
1/2 "	4-3/4	1-1/2	1-1/4	1/4	Per Customer Specifications	0.88	3	1-7/8	3-1/8	0.84	1-1/2	1-3/8	1-9/16
1 "	5-7/8	1-5/8	1-1/4	1/4		1.36	3-1/4	2-1/8	3	1.32	2-1/16	2	2
1-1/4 "	6-1/4	1-5/8	1-1/4	1/4		1.70	3-1/4	2-1/8	3	1.66	2-1/2	2-1/2	2-3/8
1-1/2 "	7	1-5/8	1-1/4	1/4		1.95	3-1/2	2-1/8	3-1/4	1.90	2-3/4	2-7/8	2-11/16
2 "	8-1/2	1-3/4	1-1/2	1/4		2.44	4-1/4	2-1/2	4	2.38	4-1/8	3-5/8	3-3/4
2-1/2 "	9-5/8	1-7/8	1-5/8	1/4		2.94	4-3/8	2-3/4	4-1/8	2.88	4-7/8	4-1/8	4-1/4
3 "	9-1/2	1-3/4	1-1/2	1/4		3.57	4-1/4	2-3/8	4	3.50	5	5	4-7/8
4 "	11-1/2	2	1-3/4	1/4		4.57	4-3/4	3	4-1/2	4.50	6-1/4	6-3/16	5-7/8
5 "	13-3/4	2-1/4	2	1/4		5.66	5-1/4	3-3/8	5	5.56	7-1/2	7-5/16	7-1/8
6 "	15	2-7/16	2-3/16	1/4		6.72	5-3/4	3-5/8	5-1/2	6.63	9-1/4	8-1/2	8-5/16
8 "	18-1/2	2-3/4	2-1/2	1/4		8.72	6-5/8	4-1/4	6-3/8	8.63	11-3/4	10-5/8	10-5/8
10 "	21-1/2	3	2-3/4	1/4		10.88	7-1/2	4-1/2	7-1/4	10.75	14-1/2	12-3/4	12-3/4
12 "	24	3-3/8	3-1/8	1/4		12.88	8-1/8	4-7/8	7-7/8	12.75	16-1/2	15	15
14 "	25-1/4	3-5/8	3-3/8	1/4		14.14	8-5/8	5-3/8	8-9/16	14.00	17-3/4	16-1/4	16-1/2
16 "	27-3/4	3-3/4	3-1/2	1/4		16.16	8-3/4	5-1/2	8-11/16	16.00	20	18-1/2	18-1/2
18 "	31	4-1/4	4	1/4		18.18	9-1/4	6-1/4	9-1/4	18.00	22-1/4	21	21

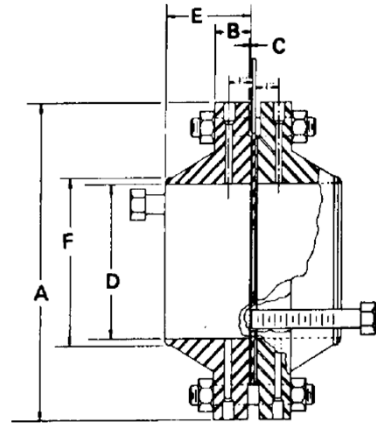
**NOTES**

- (1) Stud lengths for RFWN, RFSO and RFTHD flanges.
- (2) Stud lengths for RFTJ flanges.
- (3) Weights for RFWN and RFRTJ flanges.
- (4) Weights for RFSO and RFTHD flanges.

# 300 LB.

STUDS					Weight Approx. Note 3	Weight Approx. Note 4
No. Holes	Dia.	Circle	Lqth Note 1	Lqth Note 2		
4	1/2	2-5/8	5	5	14	8
4	5/8	3-1/2	5	5-1/4	18	11
4	5/8	3-7/8	5	5-1/4	20	14
4	3/4	4-1/2	5-1/4	5-1/2	25	18
8	5/8	5	5	5-1/4	27	19
8	3/4	5-7/8	5-1/4	6	35	28
8	3/4	6-5/8	5-1/4	6	43	34
8	3/4	7-7/8	5-1/4	6	66	59
8	3/4	9-1/4	5-1/4	6	78	88
12	3/4	10-5/8	5-1/4	6	106	102
12	7/8	13	5-3/4	6-1/2	152	152
16	1	15-1/4	6-1/2	7-1/2	319	224
16	1-1/8	17-3/4	7	7-3/4	444	315
20	1-1/8	20-1/4	7-1/2	8	520	434
20	1-1/4	22-1/2	7-3/4	8-1/2	672	570
24	1-1/4	24-3/4	8-1/4	9	835	697
24	1-1/4	27	8-1/2	10	995	853
24	1-1/2	32	9-1/2	11	1460	1335

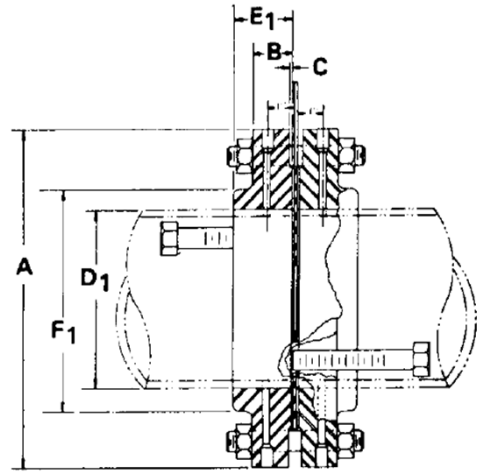
# RFWN ORIFICE FLANGE UNION



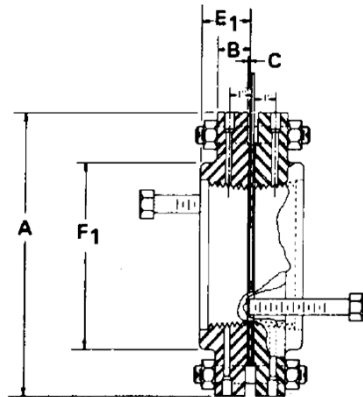
# 600 LB.

STUDS					Weight Approx. Note 3	Weight Approx. Note 4
No. Holes	Dia.	Circle	Lqth Note 1	Lqth Note 2		
4	1/2	2-5/8	5	5	14	9
4	5/8	3-1/2	5	5-1/4	18	13
4	5/8	3-7/8	5	5-1/4	20	15
4	3/4	4-1/2	5-1/4	5-1/2	25	19
8	5/8	5	5	5-1/4	27	23
8	3/4	5-7/8	5-1/4	5-1/2	35	34
8	3/4	6-5/8	5-1/4	5-1/2	56	40
8	7/8	8-1/2	6	6-1/4	99	104
8	1	10-1/2	6-1/2	7	158	156
12	1	11-1/2	7	7-1/2	197	200
12	1-1/8	13-3/4	8	8-1/2	284	270
16	1-1/4	17	8-3/4	9	472	410
20	1-1/4	19-1/4	9	9-1/2	571	489
20	1-3/8	20-3/4	9-3/4	9-3/4	720	576
20	1-1/2	23-3/4	10-1/2	10-1/2	997	810
20	1-5/8	25-3/4	11-1/4	11-1/4	1155	991
24	1-5/8	28-1/2	11-3/4	12	1439	1259
24	1-7/8	33	13-1/4	13-1/2	2032	1815

# RFSSO ORIFICE FLANGE UNION



# RFTHD ORIFICE FLANGE UNION



# 900 LB.

STUDS					Weight Approx. Note 3	Weight Approx. Note 4
No. Holes	Dia.	Circle	Lqth Note 1	Lqth Note 2		
4	3/4	3-1/4	5-3/4	5-1/2	26	13
4	7/8	4	5-3/4	6-1/4	29	26
4	7/8	4-3/8	5-3/4	6-1/4	32	30
4	1	4-7/8	6	6-1/2	40	45
8	7/8	6-1/2	5-3/4	6-1/4	60	65
8	1	7-1/2	6-1/2	6-1/2	84	98
8	7/8	7-1/2	5-3/4	6-1/4	70	123
8	1-1/8	9-1/4	7	7-1/2	126	133
8	1-1/4	11	7-3/4	8	202	201
12	1-1/8	12-1/2	8	8-1/2	259	259
12	1-3/8	15-1/2	9	9-1/4	442	415
16	1-3/8	18-1/2	9-1/2	9-3/4	619	588
20	1-3/8	21	10-1/4	10-3/4	866	780
20	1-1/2	22	11-1/4	11-3/4	1249	916
20	1-5/8	24-1/4	11-3/4	12-1/4	1505	1114
20	1-7/8	27	13-1/2	13-1/2	1998	1574

# RTJ ORIFICE FLANGE UNION

