ORIFICE - Plate Assembly

ELECTRONET™

Features

- Orifice Design as per BS EN ISO 5167
- Range of Orifice Assembly Types
  1) WNRF
  2) SORF
  3) RTJ
  4) Other on Request
- Available in wide variety of materials
- No moving parts, simple construction
- Suitable for Liquid, Gas & Vapor Application
- Non IBR and IBR Certified Orifice assembly
- Maintenance Free

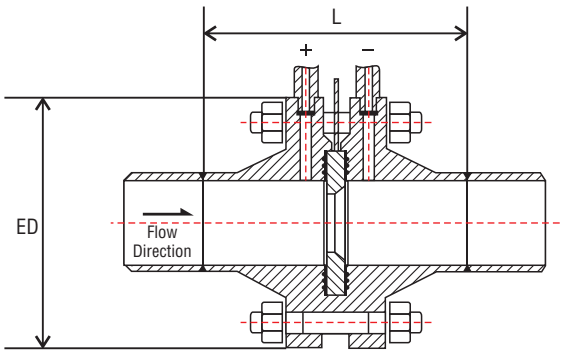
Description

Orifice flanges are intended for use instead of standard pipe flanges when an orifice plate or flow nozzle must be installed. Pairs of pressure tapping are machined into the orifice flange, making separate orifice carriers or tapping in the pipe wall unnecessary .The range of orifice flanges covers all standard sizes and ranges, and all common flange materials. Flanges are available in socket weld or weld neck form, and are typically supplied with two ½" NPT tapping in each flange. Jacking screws to ensure ease of removal of the primary flow element are provided. Orifice flanges are supplied complete with bolting and gasket kits.

Technical Specifications

Line Size	15 NB to 1000 NB (½" – 40")
Pressure Taps	Flange Tap, Corner Tap, Radius Tap (D & D/2 Tap)
Accuracy	±1% of F. S.
Material of Flange	A105, A 182–F316, A 182–F304, A 182–F11, A 182–F22 & Other as per requirement
Material of Gasket	CAF, SWG, PTFE & Other as per requirement

Assembly Overview & Drawing



The flange tapping standard Orifice Plate
(Welding Neck Flange)

TABLE : Dimensional & Weight Details Of Flange (as Per ASME B16.36)

DN	Class 300			Class 600			Class 900			Class 1500		
	Weight kg	L mm	ED mm	Weight kg	L mm	ED mm	Weight kg	L mm	ED mm	Weight kg	L mm	ED mm
1"	9	171	124	9	171	124	13	171	149	13	171	149
1 ½"	13	178	155	13	178	155	18	184	178	18	184	178
2"	14	178	165	14	178	165	29	209	216	29	209	216
2 ½"	18	184	191	18	284	191	41	215	244	41	215	244
3"	21	184	210	21	184	210	34	209	241	58	241	267
4"	31	190	245	41	209	273	59	235	292	82	254	311
6"	50	206	318	82	241	356	120	285	381	186	349	394
8"	73	232	381	124	276	419	204	333	470	306	435	483
10"	100	244	445	208	314	508	291	377	546	500	517	584
12"	151	269	521	250	320	559	405	409	610	746	574	673
14"	207	294	584	–	339	603	–	434	641	–	606	749
16"	275	301	648	–	365	686	–	441	705	–	631	826
18"	341	327	711	–	377	743	–	466	787	–	663	914
20"	408	333	775	–	390	813	–	504	857	–	720	984
24“	604	345	914	–	415	940	–	593	1.041	–	822	1.168

Values approx weight (kg) and dimensions (mm) for the assembly assuming a gasket with a thickness of 1.5 mm and a plate thickness in accordance with our standard

Ordering Information

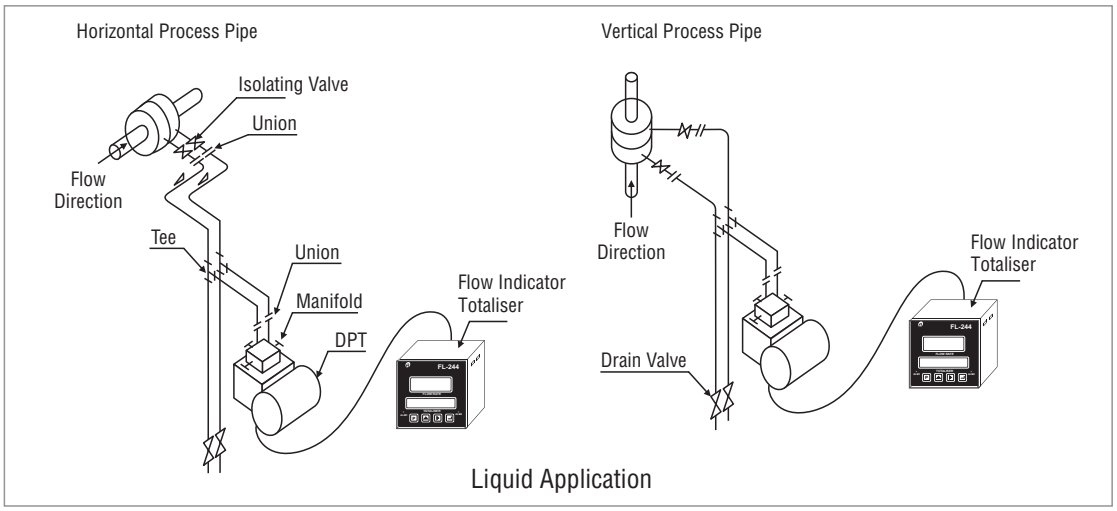
Sample Order Code : FT 15 | A2 | B1 | C2 | D1 | E4 | F4 | G1 | H2 | I3 | J2 | K2 | L3 | J3 | K4 | L2 | M2 | Q1 | R2 | S2 | T2

Parameter		Code	Description	Code	Description	Code	Description
FT	Flow Tube	FT 15	15 NB	FT 100	100 NB	FT 450	450 NB
		FT 20	20 NB	FT 125	125 NB	FT 500	500 NB
		FT 25	25 NB	FT 150	150 NB	FT 600	600 NB
		FT 32	32 NB	FT 200	200 NB	FT 700	700 NB
		FT 40	40 NB	FT 250	250 NB	FT 800	800 NB
		FT 50	50 NB	FT 300	300 NB	FT 900	900 NB
		FT 65	65 NB	FT 350	350 NB	FT 1000	1000 NB
		FT 80	80 NB	FT 400	400 NB		
A	Flange Standard	A1	ASME B 16.36				
		A2	ASME B 16.5				
		A3	ASME B 16.47 Series (A)				
		A4	ASME B 16.47 Series (B)				
		AY	Other				
B	Flange Rating	B1	ANSI 150#				
		B2	ANSI 300#				
		B3	ANSI 600#				
		B4	ANSI 900#				
		B5	ANSI 1500#				
		B6	ANSI 2500#				
		BY	Other				
C	Flange Material	C1	A 105 C. S.				
		C2	A 182 GR F11				
		C3	A 182 GR F12				
		C4	A 182 GR F22				
		C5	A 182 GR F9				
		C6	A 182 GR F 304				
		C7	A 182 GR F 304L				
		C8	A 240 GR 304				
		C9	A 240 GR 304L				
		C10	A 182 GR F 316				
		C11	A 182 GR F 316L				
		CY	Other				
		CX	NA				
D	Tapping Pairs	D1	1				
		D2	2				
		D3	3				
		DY	Other				
		DX	NA				
E	Line Schedule	E1	Schedule 5				
		E2	Schedule 10				
		E3	Schedule 20				
		E4	Schedule 30				
		E5	Schedule 40				
		E6	Schedule 60				
		E7	Schedule 80				
		E8	Schedule 100				
		E9	Schedule 120				
		E10	Schedule 140				
		E11	Schedule 160				
		E12	Schedule STD				
		E13	Schedule XS				
		E14	Schedule XXS				
		E15	Schedule 5S				
		E16	Schedule 10S				
		E17	Schedule 40S				
		E18	Schedule 80S				
		E19	Schedule Low / A Class				
		E20	Schedule Medium / B Class				
		E21	Schedule Heavy / C Class				
		EY	Other				

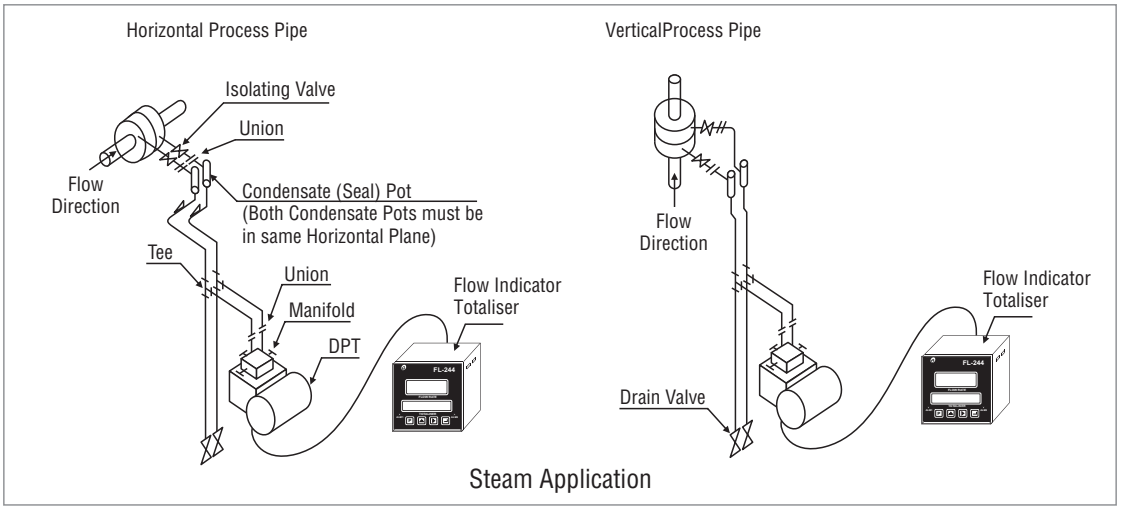
Note :
- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.

Parameter		Code	Description
F	MOC Of Gasket	F1	C.A.F.
		F2	S.W.G. SS 304 With Grafoil Filler
		F4	IS2712 GR W/3
		F5	S.W.G. SS 316 With GrafoilFiller
		FY	Other
		FX	NA
G	Plug Size & MOC	G1	½" NPT (M) C.S.
		G2	½" NPT (M) S.S.
		G3	½" BSP C.S.
		G4	½" BSP S.S.
		GY	Other
		GX	NA
H	Certification	H1	IBR
		H2	NON IBR
		H3	NACE
		HY	Other
		HX	None
I	Orifice Plate Type	I1	Concentric Square Edge
		I2	Eccentric
		I3	Quarter Of Circle
		I4	Segmental
		I6	Restriction (Concentric)
		I7	Carrier Ring
		IY	Other
J	Orifice Plate Assembly Flange Type	J1	WNRF
		J2	SORF
		J3	RTJ
		J4	Threaded
		J5	Restriction
		JY	Other
		JX	NA
K	Orifice Plate Thickness	K1	3.18 mm
		K2	4.0 mm
		K3	6.35 mm
		K4	9.52 mm
		K5	12.7 mm
		KY	Other
L	Orifice Type Of Tapping	L1	FLANGE
		L2	CORNER
		L3	RADIUS (D&D/2)
		LY	Other
		LX	NA
M	Orifice Plate Material	M1	AISI 316
		M2	AISI 316L
		M3	AISI 304
		M4	AISI 304L
		M5	Hastalloy C
		M6	Monel
		MY	Other
Q	MOC Of Stud	Q1	ASTM A 193 GR B7
		Q2	ASTM A 193 GR B8
		QY	Other
		QX	NA
R	MOC Of Nut	R1	ASTM A 194 2H
		R2	ASTM A 194 GR 8
		RY	Other
		RX	NA
S	MOC Of Jack Bolts	S1	ASTM A 193 GR B7
		S2	ASTM A 193 GR B8
		SY	Other
		SX	NA
T	MOC Of Jack Nut	T1	ASTM A 194 2H
		T2	ASTM A 194 GR 8
		TY	Other
		TX	NA

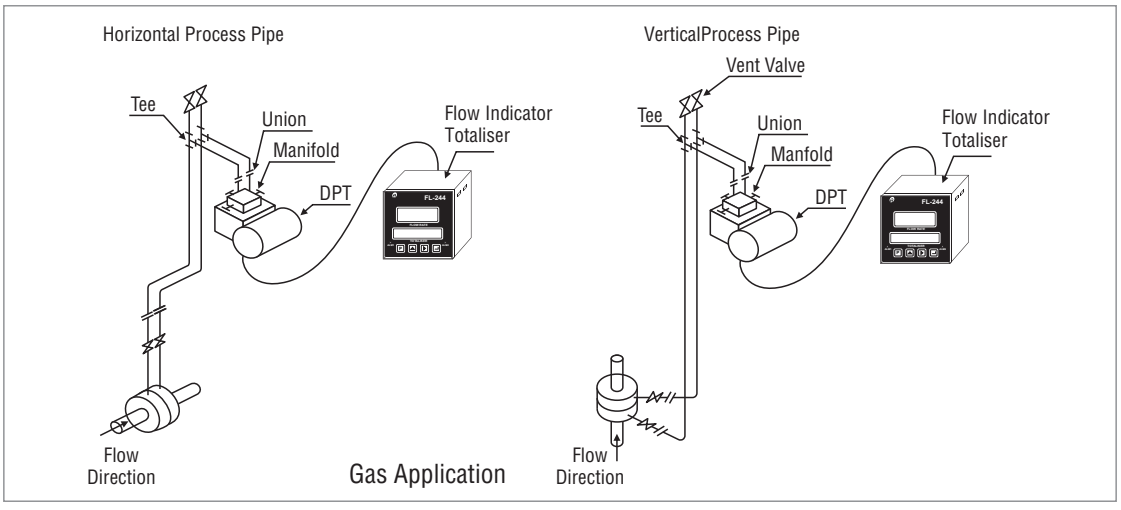
Impulse Piping For ORIFICE



Liquid Application



Steam Application



Gas Application

ELECTRONET EQUIPMENTS PVT. LTD.

Factory Address:
Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,
Khandala, Dist.– Satara
Pin: 412 801, Maharashtra, India.

Registered Office:
Plot No. 84, 85, 86, Tiny Industrial Estate,
Kondhwa Budruk,
Pune–411 048, Maharashtra, India.

+91-20-26931476/2039 ho@eeplindia.com +91-20-26934122 www.eeplindia.com

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