

SINGLE-PART DIFFERENTIAL PRESSURE DEVICE ORIFICE PLATE

DATA SHEET
FVE

An orifice plate of corner tap type is used for differential pressure outlet, and the orifice plate is unitized with the differential pressure outlet. It provides high reliability compared to an orifice plate with ring (Type FVA), it is of size 25A to 350A and is appropriate for medium and high pressure.



SPECIFICATIONS

Type: Corner taps

Calculation standard:

According to JIS Z 8762-2:2007
(ISO 5167-2:2003)

Nominal pipe size: 25A to 350A

These orifice plates with CARRIER RINGS can be supplied for nominal pipe sizes up to 1000A.

Materials of main elements:

Unitized ring plate;

SUS304, SUS316,
SCM415, *SUS410,
ASTM-A182F1,
ASTM-A182F11

Differential pressure outlet pipe;

SUS304TP, SUS316TP,
STPA

Connection method:

Connection flange;

JIS 30, 40, 63K

ANSI 400, 600, 900Lb

Differential pressure outlet pipe;

15A Sch80

Tip size R1/2

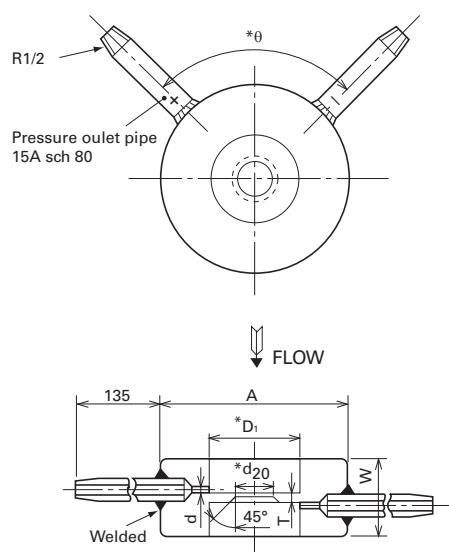
CODE SYMBOLS

1	2	3	4	5	6	7	8	9	10	11	12	13	Description
F	V	E					2	0					Nominal pipe diameter (A) ⁽¹⁾
			0	0	2	5							Enter pipe diameter in 4th to 7th digits
			0	3	5	0							
								0					Application
													General use
													Material
								S					SUS304
								W					SUS316
								* R					SUS410
								M					SCM415 (ASTM-A182F1)
								N					ASTM-A182F11
													Flange standard
								L					JIS 30K
								M					JIS 40K
								N					JIS 63K
								C					ANSI 400 Lb
								D					ANSI 600 Lb
								E					ANSI 900 Lb
								* Z					Other flange standard
													Working temperature
								1					To 315°C
								2					Over 315°C
													Treatment
								Y					None
								* A					Oil-inhibiting treatment ⁽²⁾

Notes:

- (1) The standard producible range of pipe size (nominal) is up to 350A.
- (2) Specify material grade SUS304 (code S) if oil-inhibiting treatment is needed.
- (3) Those with * marks are non-standard items.

OUTLINE DIAGRAM (Unit: mm)



* θ
 * d_{20}
 * D } See calculation sheet.

* $D1=1D \sim 1.02D$ (D represents pipe inside diameter.)

Nominal pipe size	A								T		W	d
	JIS 20K	JIS 30K	JIS 40K	JIS 63K	ANSI JPI 300	ANSI JPI 400	ANSI JPI 600	ANSI JPI 900	12 th digit of Type			
									1	2		
25A	71	76	76	77	69.9	69.9	69.9	76.2	2	2	50	4
32A	81	86	86	87	79.4	79.4	79.4	85.7	2	2	50	4
40A	86	97	97	105	92.1	92.1	92.1	95.3	2	2	50	4
50A	101	111	111	122	108	108	108	139.7	2	2	50	6
65A	121	137	137	150	127	127	127	161.9	3	3	50	6
80A	137	147	147	160	146.1	146.1	146.1	165.1	3	4	50	6
100A	162	170	180	193	177.8	174.6	190.5	203.2	3	5	50	8
125A	200	205	223	232	212.7	209.6	238.1	244.5	4	6	50	10
150A	235	248	262	272	247.7	244.5	263.5	285.8	4	6	50	12
200A	280	293	312	327	304.8	301.6	317.5	355.6	5	8	50	12
250A	353	357	377	391	358.8	355.6	396.9	431.8	5	8	50	12
300A	403	417	431	446	419.1	415.9	454	495.3	6	10	50	12

ORDERING INFORMATION

1. Code symbols
 2. Kind, composition and density of fluid
 3. Temperature, pressure, relative humidity and viscosity (heat insulation index for gas) of fluid
 4. Flow rate (maximum, normal, minimum)
 5. Instrument scale
 6. Inside diameter (measured value) and material of piping
 7. Type and maximum differential pressure (for existing instrument) of transmitter to be connected
 8. Size of pipe flange for insertion of orifice
 9. Permanent pressure loss and other restricted items
- (When ordering, please specify the above items in the specification sheet.)

⚠ Caution on Safety

*Before using this product, be sure to read its instruction manual.

F Fuji Electric Co., Ltd.

Global Sales Section
 Instrumentation & Sensors Planning Dept.
 1, Fuji-machi, Hino-city, Tokyo 191-8502, Japan
<http://www.fujielectric.com>
 Phone: +81-42-514-8930 Fax: +81-42-583-8275
<http://www.fujielectric.com/products/instruments/>