Orifice plate with ring

Model: F200

Spec. sheet no. FD02-01

Description

Orifice ring assemblies are used for flow measurement of smaller or medium sized pipes at lower pressure. Each assembly consists of one orifice plate and two orifice rings. Differential pressure is taken out in a corner tap system. Orifice block, which are of a unit-construction type and provide higher pressure ratings than the orifice ring assemblies, also are available.



Specification

Orifice bore type

Concentric square edged orifice Quadrant edged orifice Multi-hole orifice

Flow calculation standards

ISO 5167-1 and 2 2003 AGA-3 ASME MFC-3M and 14M JIS Z 8762 BS 1042

Flange ratings

JIS 5, 10, and other ANSI (or JPI) 150 and other

(Note: ANSI and JPI ring dimensions are identical)

Pressure taps

Corner taps

Plate thickness

3, 6, 9, 12 mm and Over

Pressure tap nipples

Pipe size: 15 mm (1/2 inch), Sch 40 and 80

Length: 75 and 150 mm

Tap connections: ½ PT and ½ NPT male

socket welding and butt welding

flange connection

Drain and vent hole

Per ASME recommendations

Not drilled for orifice bores smaller than 25.4 mm.

Markings

Upstream side of tab handle stamped "Upstream" and with bore type and size, line size, tag number and flange rating.

Special markings

Special marking may be furnished to meet special requirements

Materials

Ring and pressure tap nipple: 304SS, 316SS and other

Plate: 304SS, 316L SS, Monel and other

Gaskets

Material: Non-Asbestos and Teflon Thickness: 1.5, 2.0 and 3.0 mm



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Main order

Ordering information

1/2" NPT, with nipple (150 and 150L)

1/2" PE, with nipple (150 and 150L)

8. Tap connection

Other

Other

None

Calibration test

1

2

0

0

Ν

9. Option C

1. Base model

F200 Orifice plate with ring

2. Line size

A01	1/2"	J01	15A
A02	3/4"	J02	20A
A03	1"	J03	25A
A04	1½"	J04	40A
A05	2"	J05	50A
A06	3"	J06	80A
A07	4"	J07	100A
A08	6"	J08	150A
A09	8"	J09	200A
A10	10"	J10	250A
A11	12"	J11	300A
A12	14"	J12	350A
ZZZ	Other		

3. Connection

A01	150Lb RF	J01	10K RF
A11	150Lb FF	J11	10K FF
ZZZ	Other		

4. Element type

- 1 Concentric
- 2 Quadrant
- 3 Multi-hole
- 4 Eccentric
- 5 Segmental
- O Other

5. Element material

- 6 316L SS
- O Other

6. Ring material

- **4** 304SS
- **6** 316SS
- L 316L SS
- O Other

7. Drain / Vent hole

- **D** Drain hole
- V Vent hole
- N None

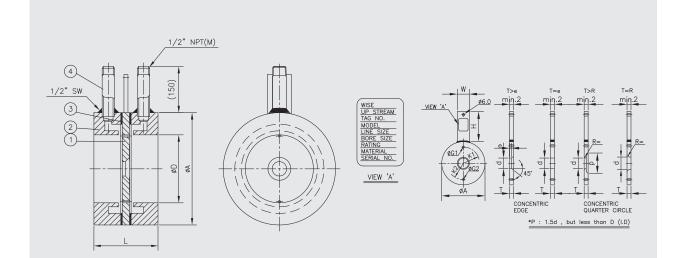
(Bore size < 25.4 mm or Required or Multi-hole orifice)

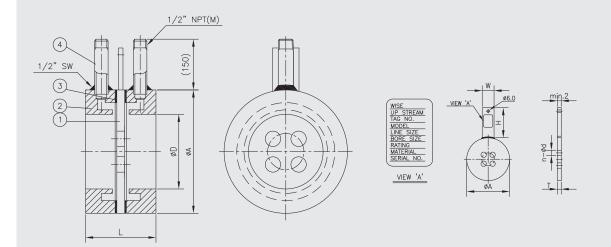
Sample ordering code

1	2	3	4	5	6	7	8	9
F200	A01	A01	1	6	4	D	1	С



Dimension





RING ORIFICE FOR ANSI(ASME)

ORIFICE PLATES DIMENSIONS : ISA RP 3.2 UNIT : mm

SIZE (INCH)	0.D	_		L	PLATE HANDLE		VENT & DRAIN	
	150LB	T	е					
(IIII)	Α				W	Н	G	K1/K2
1/2	47.8	3	0.5	77	25	95	-	-
3/4	57.3	3	0.5	77	25	95	-	-
1	66.5	3	0.5	77	25	95	-	-
1 1/2	85.8	3	0.7	77	25	95	1.6	*
2	104.6	3	0.8	77	25	95	1.6	*
2 1/2	123.6	3	0.8	77	25	95	1.6	*
3	136.6	3	0.8	77	25	95	1.6	*
4	174.6	3	1.6	77	38	120	1.6	*
6	222.5	3	1.6	77	38	120	1.6	*
8	279.5	3	3	77	38	120	1.6	*
10	339.8	6	3	80	38	140	2	*
12	409.8	6	3	80	38	140	2.5	*
14	450.6	6	3	80	38	140	2.5	*

RING ORIFICE FOR KS(JIS)
ORIFICE PLATES DIMENSIONS : ISA RP 3.2 UNIT : mm

SIZE (DN)	O.D	Т	е	L	PLATE		VENT	
	10K				HANDLE		& DRAIN	
(DIV)	Α				W	Н	G	K1/K2
15A	58	3	0.5	77	25	95	-	_
20A	63	3	0.5	77	25	95	-	_
25A	74	3	0.5	77	25	95	-	_
40A	89	3	0.7	77	25	95	1.6	*
50A	104	3	0.8	77	25	95	1.6	*
65A	124	3	0.8	77	25	95	1.6	*
80A	134	3	0.8	77	25	95	1.6	*
100A	159	3	1.6	77	38	120	1.6	*
150A	220	3	1.6	77	38	120	1.6	*
200A	270	3	3	77	38	120	1.6	*
250A	333	6	3	80	38	140	2	*

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