

INTEGRAL ORIFICE ASSEMBLY IOA SERIES

Technical Data

Used Differential Pressure Transmitter

Various Process Pipe Size: 3/8", 1/2", 3/4", 1", 1 1/2" available

Process Connection: Bevel welded, flange

Orifice Plate According To: ISO 5167, ASME and AGA-3 standard

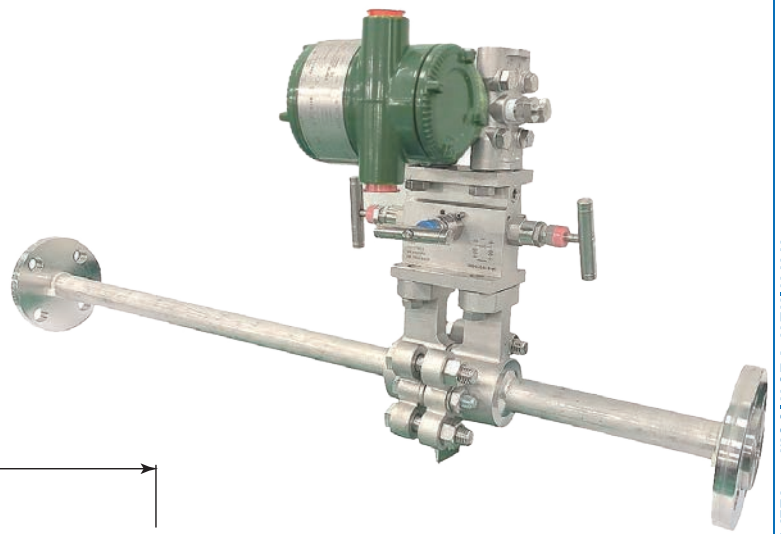
Flange Rating: 150LB up to 600LB

Pressure Limited: Up to 100 kg/cm²

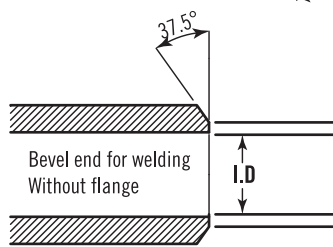
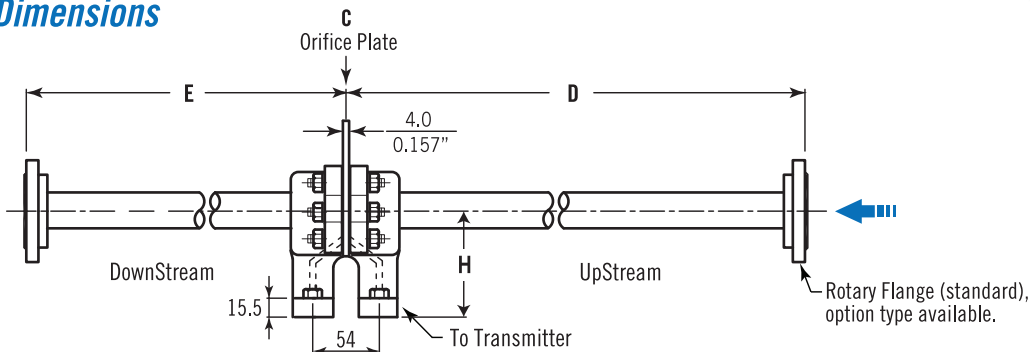
Temperature Limited: -40°C~+350°C

Material: SS316 wetted parts & Teflon or Sigma 533 gasket;
option available

Accuracy: ±1.0% F.S. (for orifice plate only)



Dimensions



Assembly Line Size	Pipe Schedule		Straight Length Of Piping								H
			With Flange				Without Flange				
			D		E		D		E		
		mm	in	mm	in	mm	in	mm	in	mm	
3/8"	40S	80S	254	10.0	115	4.5	242	9.5	112	4.4	75
1/2"	40S	80S	318	12.5	145	5.7	315	12.4	142	5.6	75
3/4"	40S	80S	318	12.5	145	5.7	315	12.4	142	5.6	80
1"	40S	80S	513	20.2	221	8.7	510	20.1	218	8.6	80
1 1/2"	40S	80S	721	28.4	302	11.9	716	28.2	297.2	11.7	90

NOTE.

1. Orifice plate bore size is by vendor.
2. Pipe schedule is option by user. (ex. Sch 160S)
3. Straight length of piping is option on request.

Ordering Information

IOA	Code	Wetted Parts Material				
	S	SS316				
		Code	Gasket Material			
		T	Teflon	S	Sigma 533	
		Code	Line Size			
			(A) 3/8" (B) 1/2" (C) 1" (D) 1 1/2" (E) 3/4"			
		Code	Process Flange Size			
			(A) 1/2" (B) 3/4" (C) 1" (D) 1 1/2" (O) option			
		Code	Process Connection			
			1. Flange Rating		2. Welded Type	
		15	ANSI 150#		B	Bevel End
		30	ANSI 300#			
		60	ANSI 600#			
		10	PN 10			
		16	PN 16			
		40	PN 40			
		10K	JIS 10K			
		20K	JIS 20K			
		T	Other: _____			
IOA						Complete Ordering Code

*Please fill in the ordering information and the specification of service condition in the next page.

Specification of Integral Orifice Flowmeter

Individual Specification		Requirement	Requirement
1	Tag No. / P & ID No.		
2	Line No.		
3	Line Size & Schedule		
4	Pipe Material		
METER			
5	Design Type		
6	Calculation Standard		
7	Process Connection		
8	Plate Material		
9	Beta Ratio d/D		
10	Orifice Bore Diameter (mm)		
11	Vent or Drain Hole		
12	Plate Thickness (mm)		
13	Body Material		
14	Flange Material		
15	Bolts Material		
16	Gasket Material		
ASSEMBLY			
17	Associated Piping Material		
18	Flange Material		
19	3-Valve Manifold Material		
TRANSMITTER			
20	Type		
21	Mounting		
22	Case Material		
23	Enclosure Class		
24	Hazardous Area Classification		
25	Hazard Protection		
26	Power Supply		
27	Signal Output		
28	Conduit Connection		
29	Accuracy		
30	Zero Elevation / Suppression		
31	Output Gauge		
FLUID DATA			
32	Fluid		
33	Fluid Phase / Flow Unit		
34	Flow Range		
35	Flow Nor. / Max.		
36	Temp. Nor. / Max. (°C)		
37	Press. Nor. / Max. (BarG)		
38	Sp. Gr. @operating / @1 ATM 60°F		
39	Molecular Weight		
40	Operating Viscosity (cP)		
41	Oper. Gas Compress. Factor		
42	Max. Allowable DP		
MODEL			
43	Manufacturer		
44	Model No.		

* Please fill in above block on request.