

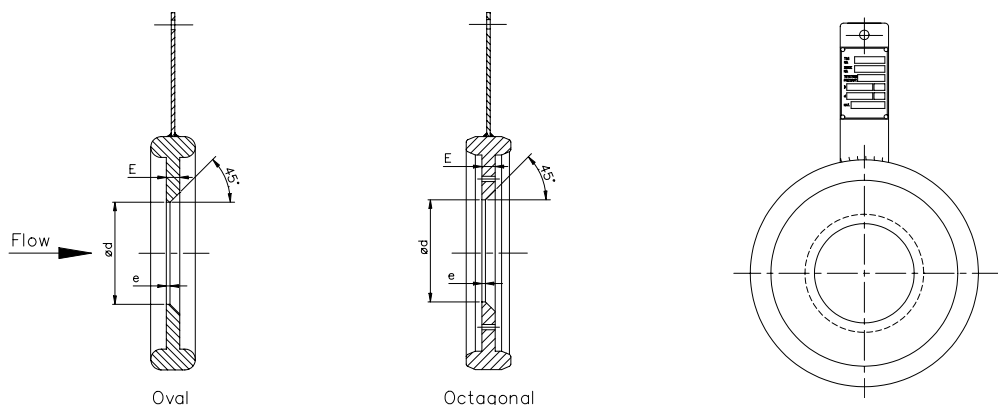
EMCO Orifice Plates Series ISB/2 and ISB/5 with integrated Unit for RTJ Flanges

Principle

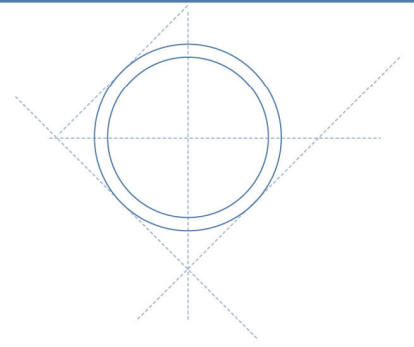
EMCO orifice plates are used as primary elements in flow measurement of liquid, gas and steam according to the differential pressure principle.

Construction

- Design and calculation standards : ISO 5167, ASME MFC-3M, ISA RP 3.2, Shell Flow Meter Engineering Handbook, L. K. Spink, AGA no. 3
- Sizes : 1" - 20" according to ANSI B 16.36, 50 mm < D < 1000 mm according to ISO 5167 and 50 mm < D < 900 mm according to ASME MFC-3M.
- Bore (d) : $d > 12,5$ mm
- β (d/D) : $0,2 < \beta < 0,75$
- Plate thickness : 3 - 9 mm
- Holder width : 27 mm; * 28.5, ** 30 mm, *** 32 mm.
- Material : Carbon steels, AISI 316, Monel, 6Mo and others on request
- Vent or drain hole : On request
- Mounting style : Between RTJ flanges according to ANSI B16.36, API, other standards on request.
- Holder type : Oval type ISB/5 or octagonal type ISB/2.

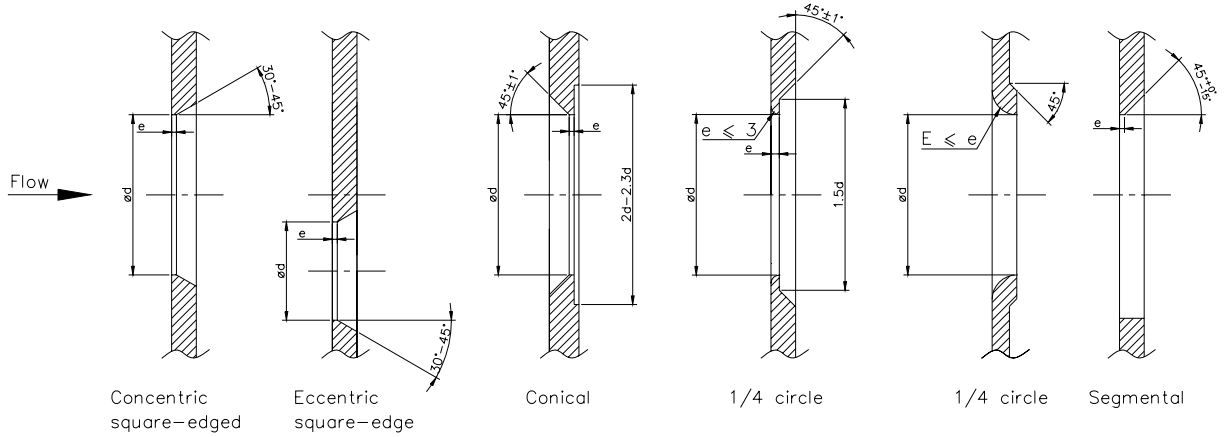


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Orifice plate shapes

: Square edge concentric, square edge eccentric, conical, 1/4 circle, segment.



Handle

: With name plate in AISI 316 with the following inscription : TAG no., serial no., pressure rating, inner pipe dia., bore, material.

Size	Pressure rating lbs			
	600	900	1500	2500
1"	R16		R16	R18
1½"	R20		R20	R23
2"	R23		R24	R26
2½"	R26		R27	R28 **
3"	R31	R31	R35	R32 **
4"	R37	R37	R39	
6"	R45	R45	R46 *	
8"	R49	R49		
10"	R53	R53		
12"	R57	R57		
14"	R61			
16"	R65 ***			
18"	R69 ***			
20"	R73 ***			

Other size on request

Technical Data

Accuracy : +/- 0,6 % for $\beta < 0,6$ and equal to β for β values above 0,6

Pressure loss : Depending on β , for β equal to 0,6 : ca. 60 % of the differential pressure measured

Limits for Reynolds No : $Re > 1260 \times \beta^2 D$ according to ISO 5167
 $2000 < Re < 10^8$ according to ASME MFC-3M