

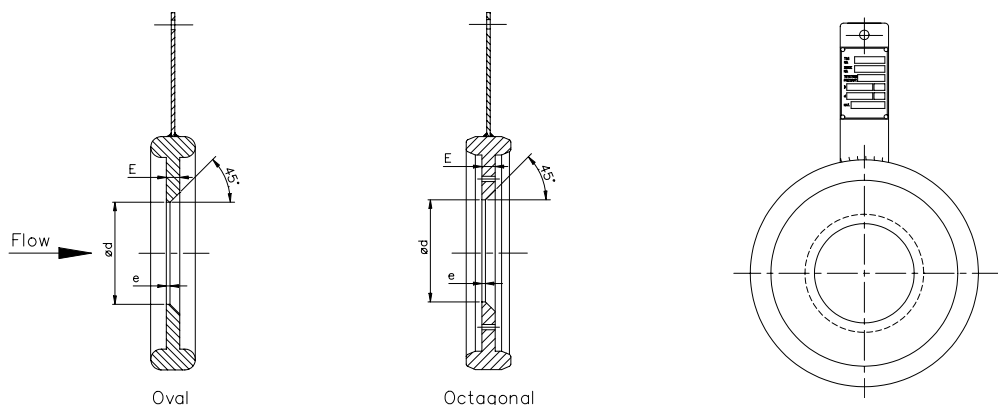
## EMCO Orifice Plates Series ISB/2 with Integrated Unit for RTJ Flanges

### Principle

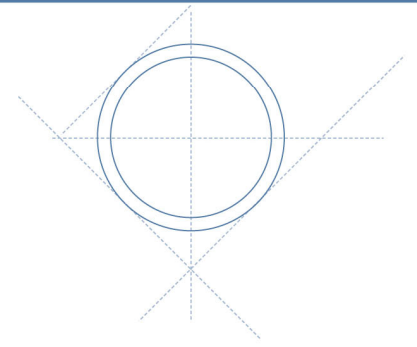
EMCO orifice plates are used as primary elements in flow measurement of liquid, gas and steam according to the differential pressure principle.

### 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) :  $d > 12,5 \text{ mm}$
- $\beta$  (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 or octagonal.

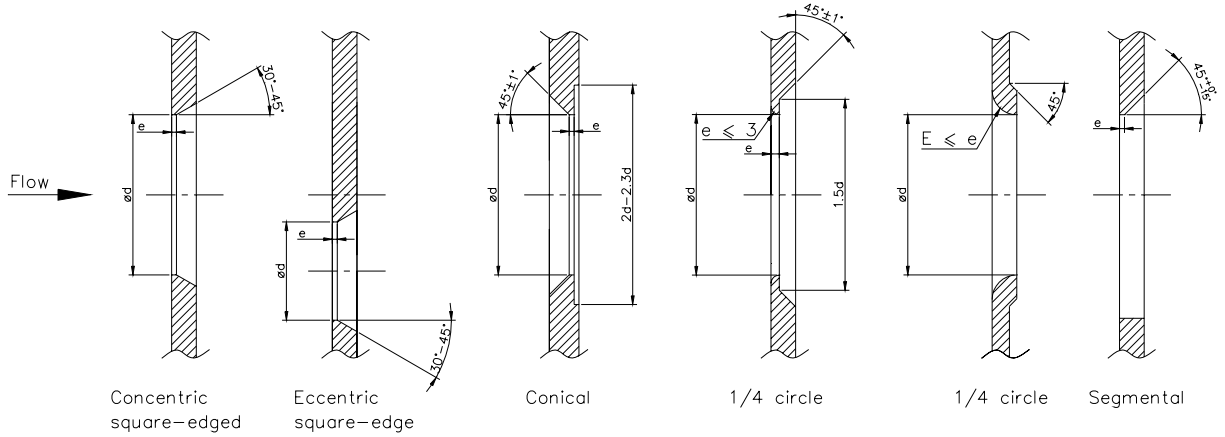


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Orifice plate shapes

: 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  $\beta$  for  $\beta$  values above 0,6

Pressure loss : Depending on  $\beta$ , for  $\beta$  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