

Orifice Meter Run



Orifice Meter Runs for Flow Measuring

As a Differential Pressure Devices

Orifice Meter Run Series OMRUN

✓ Principle

OMRUN Meter Run with an orifice plate is used as primary element in flow measurement of liquid, gas and steam according to the differential pressure principle.

✓ Construction

Design and Calculation Standards:

: ISO 5167, BS 1042, ASME MFC for Fluid Meters, DIN 19205,
Shell Flow Meter Engineering Handbook, R. W. Miller Handbook.

Sizes : DN 10 – DN 50, 3/8" - 2". Pressure

Pressure Rating : PN 10 - 400, 150 - 2500 lbs. Plate

Plate thickness : 3 mm or more.

Vent or drain hole : On request.

Plate material : Stainless Steel (Especially AISI 316), Carbon Steel, Monel, Inconel, Super Duplex, 6Mo and others on request. Stainless Steel (Especially AISI 316), Carbon Steel, Monel, Inconel, Super Duplex, 6Mo and others on request.

Ring and pipe material:

Carbon Steel, Stainless Steel and other materials on request.

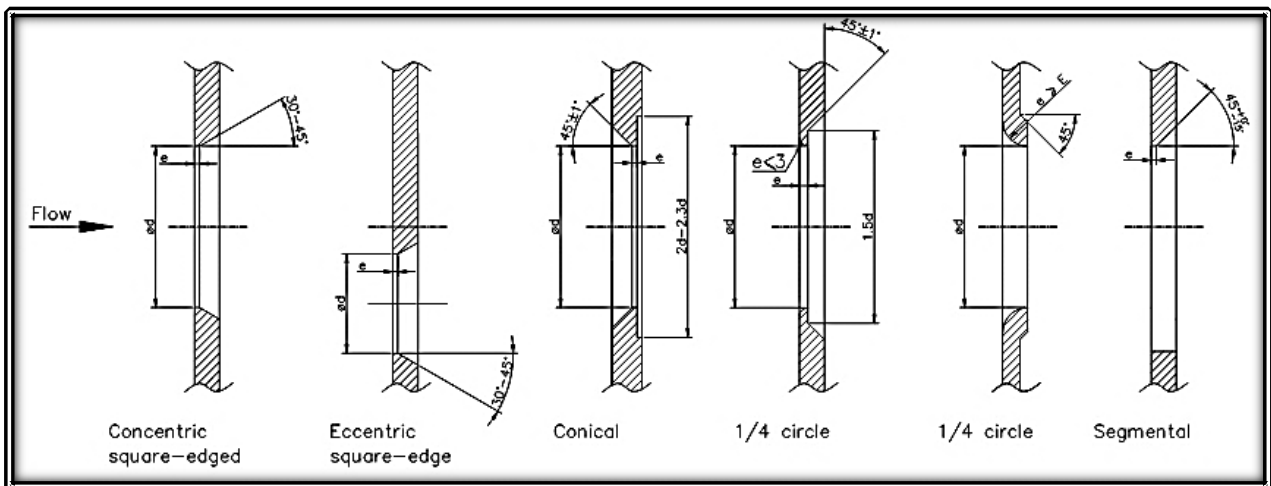
Pipe run : Can be honed for increased accuracy or Polished.

Flange standards : API, DIN, AISI B 16.5.

Connection : Weld ends or flanges with flat or raised face or groove according to DIN 2526, 2513 or 2512, or RF and RTJ according to ANSI B 16.5

Orifice plate shapes: Square edge concentric, square edge eccentric, conical entrance, 1/4 circle or quarter circle and segmental.

Orifice plates are beveled on the downstream side except for 1/4 circle orifice plate.



Male tappings : on request.

Tap location : Normally same side of carrier rings, otherwise to be stated with order.

Marking Technical Data

: The carrier rings are marked with "+" and "-" and flow direction.

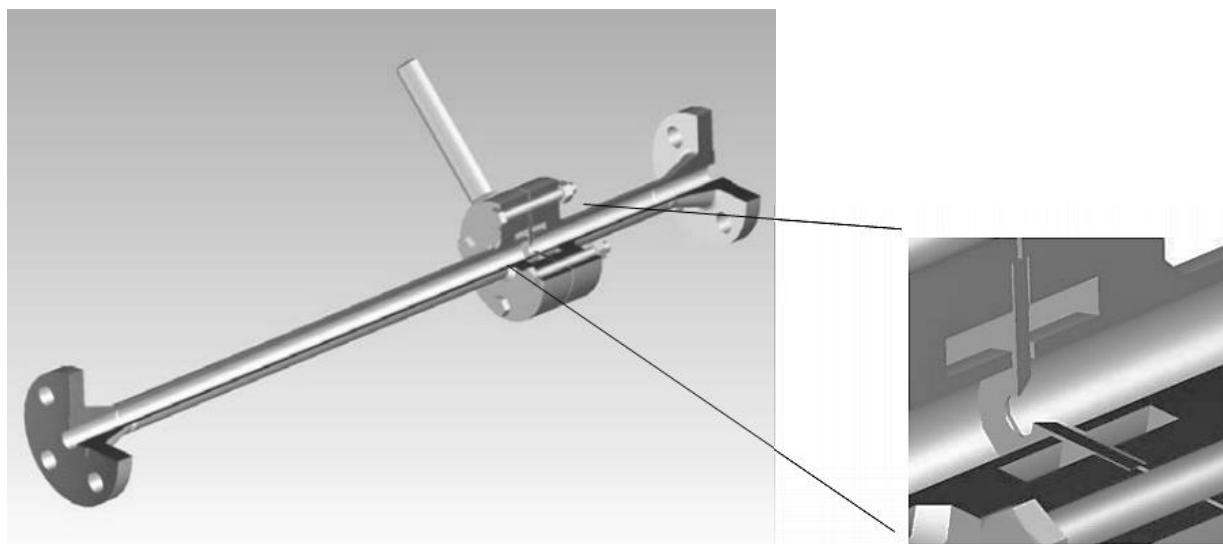
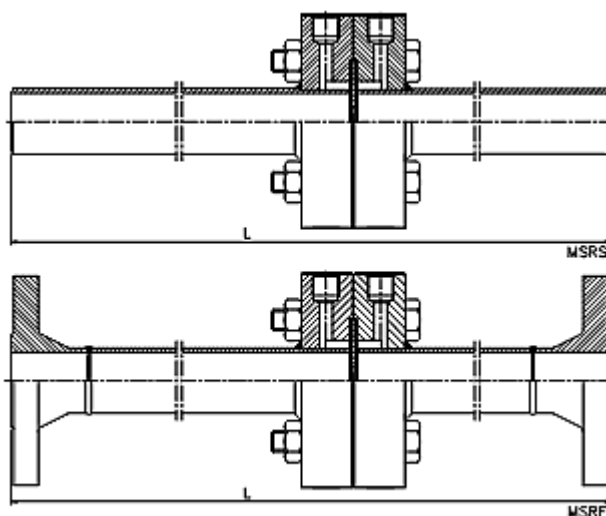
Accuracy : $\pm 0.8 - 1\%$ (when the right type is chose)

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

Sizes:

DN	Inch	Total length
10	3/8"	400
15	1/2"	550
20	3/4"	700
25	1"	900
32	1 1/4"	1100
40	1 1/2"	1300
50	2"	1500
All dimensions in mm.		



Some Samples of Meter Run:

