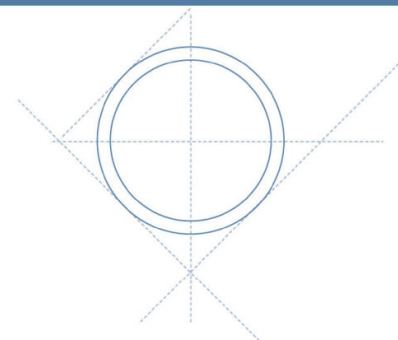




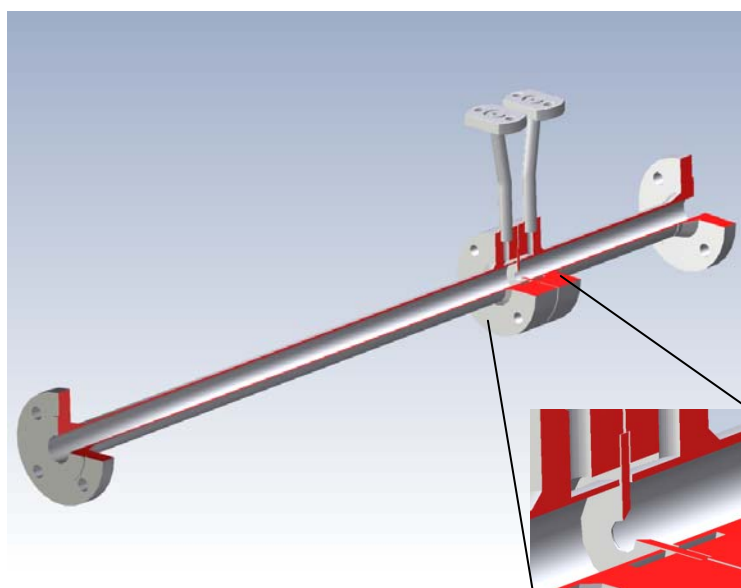
EMCO Meter Run with Transmitter Flanges for Compact Mounting, Type CompaQ

Principle

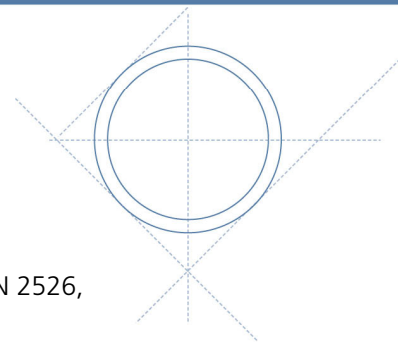
EMCO Meter Run type CompaQ is used as primary element in flow measurement of liquid, gas and steam according to the differential pressure principle. The differential pressure transmitter and 3 way manifold valve is mounted directly on the CompaQ ensuring an faster and more safe installation on site. The straight pipe run requirements for optimal accuracy are met with this design.

Construction

Design and calculation standards	: ISO/TR 15377, ISO 5167, BS 1042, ASME MFC-14M, MFC-3M, DIN 19205, Shell Flow Meter Engineering Handbook,
Sizes	: DN 10 – DN 100, 3/8" - 4".
Pressure rating	: PN 10 - 400, 150 - 2500 lbs
Plate thickness	: 3 mm.
β (d/D)	: preferred range $0,5 < \beta < 0,7$ for highest accuracy.
Vent or drain hole	: Not recommended.
Material	: AISI 316, other on request.
Pipe run	: Can be honed for increased accuracy.
Pressure taps	: Transmitter flanges with a 54 mm centre distance.

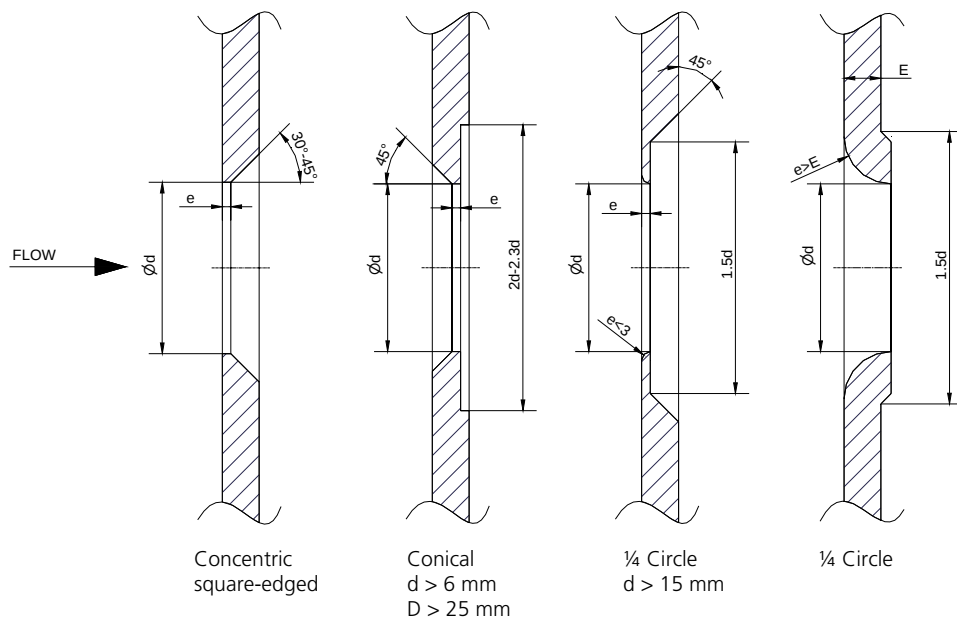


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Connection : Flanges with flat or raised face or groove according to DIN 2526, 2513 or 2512, or RF and RTJ according to ANSI B 16.5

Orifice plate shapes : Square edge concentric, conical, 1/4 circle, segment.



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

Technical Data

Accuracy : $\pm 0,75 - 1 \%$ (square edge plate), $\pm 2 \%$ (conical), $\pm 2 - 2,5 \%$ (1/4 circle)

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
 $1000 < Re < 10^8$ according to ASME MFC-14M

Sizes

DN	Inch	Total length (mm)
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
65	2 1/2"	1600
80	3"	1800
100	4"	2200

Accessories

3 valve manifold, double flanged
Condensing chamber unit for steam flow (only horizontal pipe line)