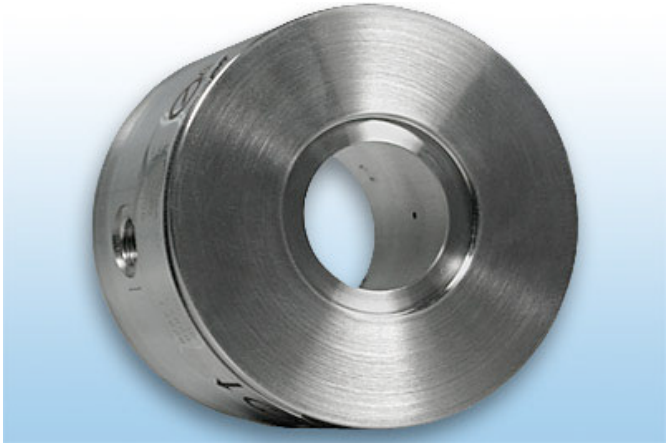
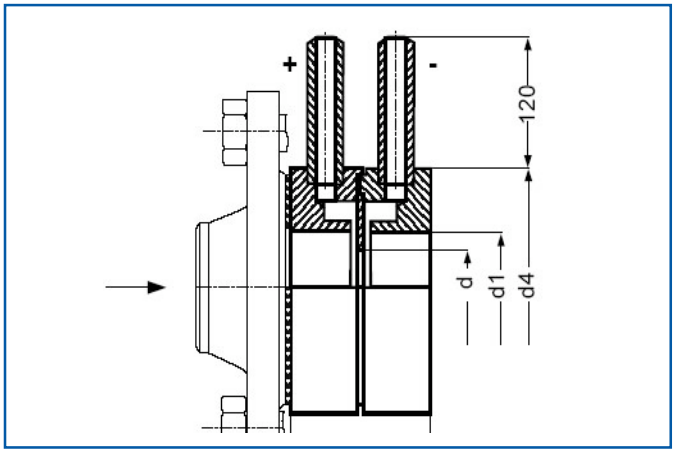
Standard Ring Chamber Orifice Plate BLA200

As of: 26-07-2013





The ring chamber orifice plate is used as differential pressure device for the measurement of aggressive and non-aggressive gases, steam and liquids.

- Differential pressure device for flow measurement
- Nominal pressures PN 6 to PN 100
- Nominal width DN 150 to DN 1600
- Simple varation of the measuring range by exchange the orifice
- Reduced influence of damages by installation through ring chamber pressure extraction

Technical Description

The orfice plate consists of a two-part carrier-ring with pressure-taps according to DIN 19205 and exchangeable orifice plates. It can be delivered as an orifice according to ISO 5167-2, as quarter circle nozzle or as a double coned orifice according to appropriate conditions of use.
Carrier-ring and orifice plate are supplied with a flat seal. The seal is chosen to suit accurately the medium and the working conditions.

The ring chamber orifice plate is secured against damage during transport and installation. The production is possible in different materials and very special materials and is dependent on pressure and temperature. Especially in operation with high temperatures and aggressive media have to make decisions of the special application.

Specifications

Nominal Pressure

Standard:	PN 6 to PN 100

Nominal Width

Standard:	DN 50 to DN 1600

Installation Length (L)

Standard:	65 mm
Optional:	40 mm

Further on demand

Outer diameter of the carrier rings(d4)

Outer diameter d4	hole circle diameter pipe line flange – hole diameter
Rebound:	Outer diameter d4 - 10 mm
Nut	Outer diameter d4 - 10 mm

Inner diameter of the carrier rings (d1)

From DN 50 to DN 100	D + 1 mm
over DN 100 to DN 400	D + 2 mm
over DN 400	D + 4 mm

D ... inner diameter of the pipe line

Bore Diameter (d)

The bore- Ø is carefully calculated from the supplied operation data considering the relevant standards and regulations documented in the calculation data-sheet.

Pressure Loss

The remaining pressure loss depends on the nozzle opening ratio $\beta=d^2/D^2$ and is approx. 30-80% of the measured dP; you will find this information also in the calculation data-sheet.

Seal Types

Flat:	Up to PN 100
Rebound:	Up to PN 100 (DIN 2513)
Nut:	Up to PN 100 (DIN 2512)

Designation

Number of the choke device, PN, D, d, material, flow direction and designation of the extraction socket with + and -.

Aprovals

Production and check go along with the relevant guidelines such as TRD, “AD-Merkblatt” and customer specifications. Material certificates according to EN 10204 3.1 A and B.

Ordering Information

The ring chamber orifice plate will be optimized to the specific requirements. For a offering we need the following data:

- Flow range(s)
- Gas type(s)
- Orifice nominal width(s)
- Installation length
- Seal type
- Material
- Operating conditions (pressure and temperature)
- Permitted pressure drop
- Accuracy
- Ambient conditions

Material certifications for material testings, e.g. to the guidelines of EN 10204, can be delivered upon request.

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