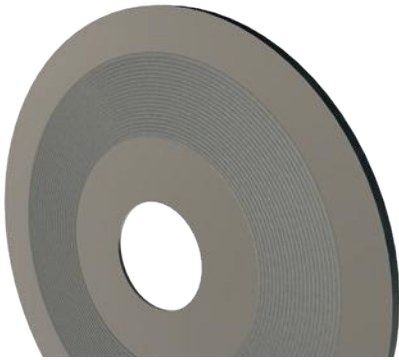
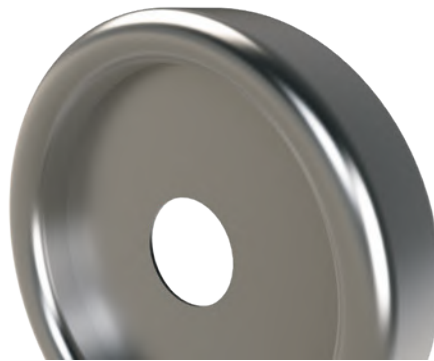


7. GENERAL INFORMATION ON ORIFICE PLATES

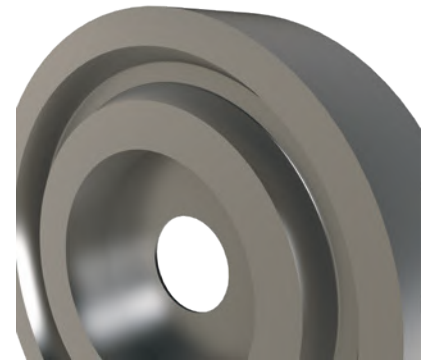
RF OR RTJ SEALING



RF (raised face)

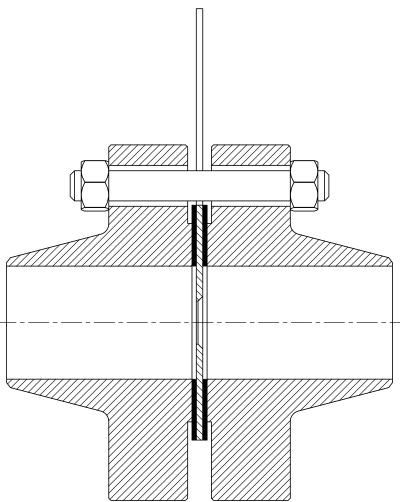


Male RTJ

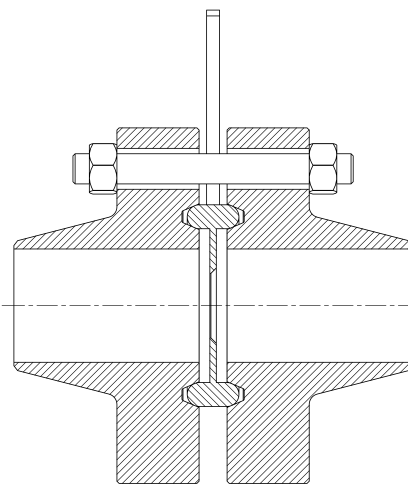


Female RTJ

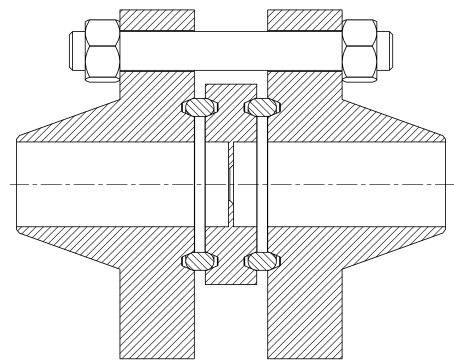
MOUNTING EXAMPLE



RF orifice plate



Male RTJ orifice plate

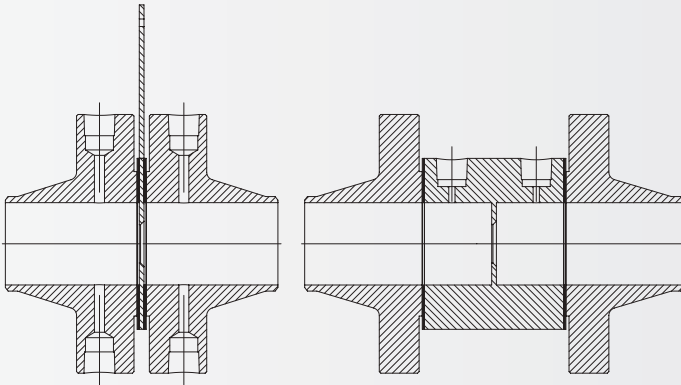


Female RTJ orifice plate

PRESSURE TAP STANDARDIZED⁽¹⁾

ΔP
25/25

FLANGE PRESSURE TAP (1"/1")



Orifice flange

Orifice carrier 1"/1"
(monoblock)

ADVANTAGES

Orifice flange

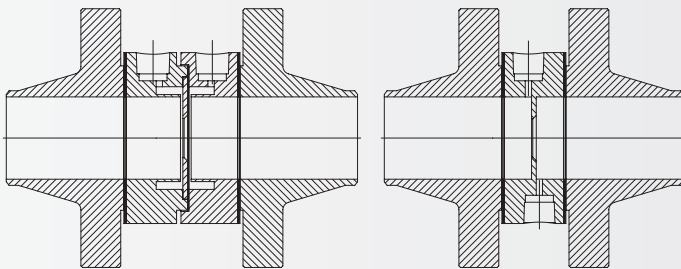
- Easily interchangeable measuring element
- Plate / flange materials may be different

Orifice carrier 1"/1" (monoblock)

- Measuring element machined from a single block
- Pressure tapings integrated within the carrier
- Ease of assembly: orifice carrier either mounted between simple flanges or welded to the piping

ΔP
0/0

CORNER⁽²⁾ PRESSURE TAPS (0/0)



Annular chamber

Orifice carrier 0/0
(monoblock)

ADVANTAGES

Annular chamber

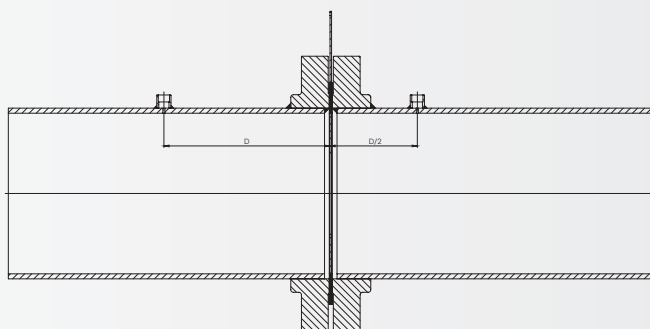
- Mounting between simple flanges (welding-neck, slip-on...)
- Plate / annular chamber materials may be different
- Averaged upstream and downstream pressure; used for better accuracy

Orifice carrier 0/0 (monoblock)

- Measuring element machined from a single block (different thicknesses possible)
- Pressure tapings integrated within the carrier
- Ease of installation: orifice carrier either mounted between simple flanges or welded to the piping

ΔP
D-D/2

D AND D/2⁽³⁾ PRESSURE TAPS



ADVANTAGES

- Plate mounted between flanges (welding-neck, slip-on...)
- Pressure taps on the pipe
- Used for diameters > ND150

The sections above are showing the different types of pressure taps. For the sake of representation, the diagrams are showing an orifice plate. To find out which pressure taps are suitable for the selected flow measurement element, refer to the product data sheet.

⁽¹⁾ To check the applicable standards, see page 56.

⁽²⁾ For installation of ISA1932 nozzle with corner pressure taps, see the corresponding technical datasheet on page 19.

⁽³⁾ For installation of long radius nozzle with D-D / 2 pressure taps, see the corresponding technical datasheet on page 20.