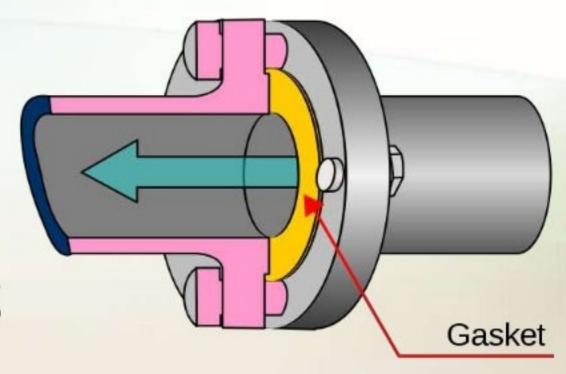


Gasket

By: Varun Patel, B.E- Mechanical, PMP®

Gasket

- Gasket is sealing material placed between connecting Flanges
- create a static seal
- Maintain leakage proof sealing in all operating conditions



Gasket Selection Criteria

- Temperature
- Pressure
- Corrosion resistance
- Types of fluid
- Robustness
- Availability
- Cost



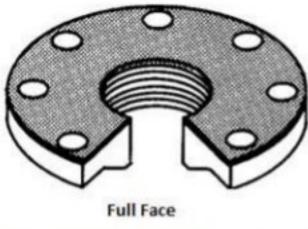
Gasket Types

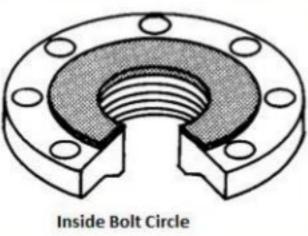
- Non-Metal
 - Rubber, Teflon, Compressed Non-asbestos Fiber (CNAF)
 - Soft gasket can be full face or inside bolt circle
 - Easily compressed with low tension bolting
 - Used in low pressure class flanged such as 150 or 300
 Class
 - Normally used in low temperature services
 - Not used in hydrocarbon services
 - Cheapest and easily available

Non-Metal Gasket









CNAF

PTFE

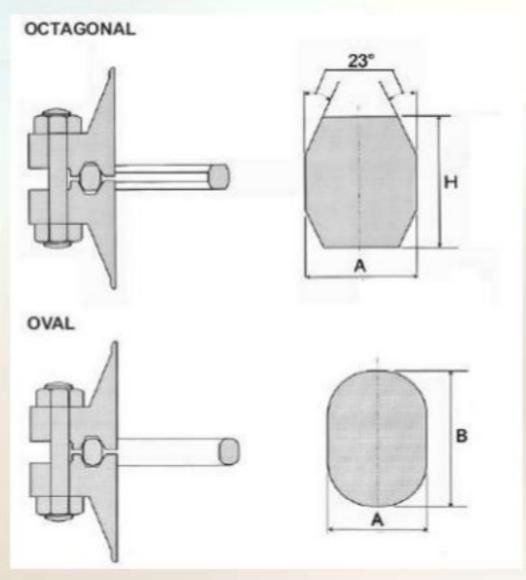
Gasket Types

Metal

- Also known as ring gasket or RTJ
- Soft iron, Low Carbon steel, Stainless Steel, Monel, inconel
- Used in high pressure class flanges, normally above 900 Class
- High tension bolting required
- Very robust
- Most costly

Metallic Gasket R-Type (RTJ)





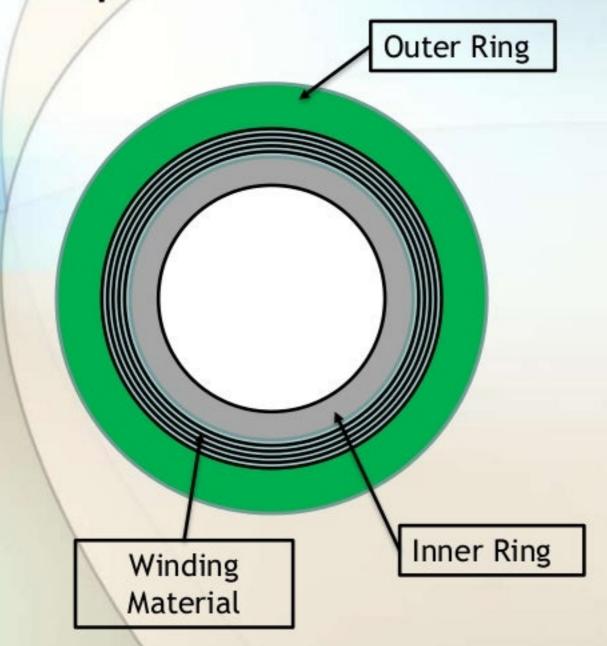
Gasket Types

- Composite
 - Combination of metal and non-metal
 - Spiral wound, Metal Jacketed, Kamprofile
 - Graphite or PTFE used as filler material
 - Stainless steel or other exotic material can be used as winding material
 - Used in wide range of pressure and temperature
 - Careful handling required
 - Cost effective

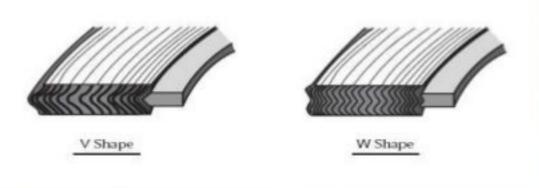
Spiral wound Gasket

- Composites of metal and non-metallic materials
- Graphite or PTFE used as filler material
- Stainless steel or other exotic material can be used as winding material
- Most widely use type gaskets. Suitable for wide range of pressure and temperature class.

Spiral Wound Gasket

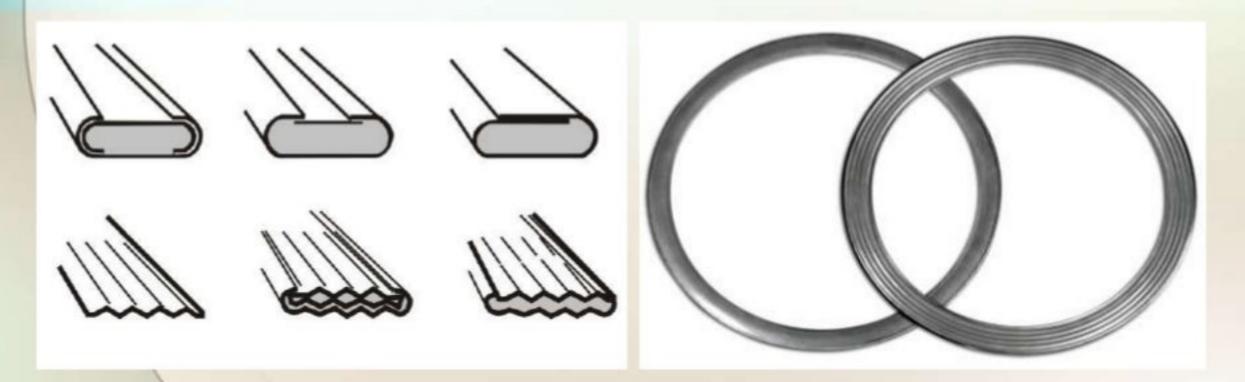






Metal Jacketed Gasket

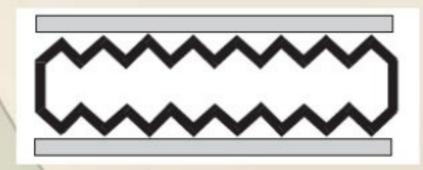
- Composites of metal and non-metallic materials
- Soft filler material are enclosed in outer metal sheet jacket



Kamm/ Cam profile Gasket

- Metal core with concentric grooves
- Sealing layers of either graphite or PTFE
- Costlier than Spiral wound but provide better blowout resistance easy to handle even in large

diameters







What we have learned?

- Types of Gasket
- Various Construction



To learn more about pipe and pipe fittings take my online course at 90% discount click on https://www.udemy.com/process-pipe-fittings-for-oil-gas-career/?couponCode=FB10

How to be an Expert in Pipe & Fittings for Oil & Gas career

Click hear to Enrolled Now

