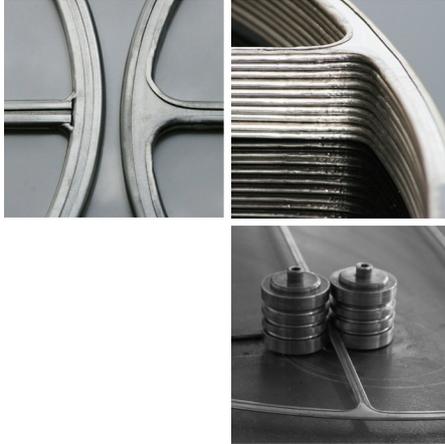




# METAL JACKETED GASKETS

V-Seal are well known for manufacturing bespoke heat exchanger gaskets throughout the industry.

These are hand made to exacting customer specifications and fabricated in a variety of metals and configurations in one piece or welded constructions.



Metal Jacketed Gaskets are specially designed and widely used on smooth flange applications and are ideal for Heat Exchangers, Auto Claves, Columns, Flue Stacks, Boilers, Gas Mains, Valve Bonnets, Pumps and similar services.

They comprise a soft pliable filler core surrounded by a metal jacket which may totally or partially enclose the filler. This metal jacket provides the mechanical strength to contain the filler and is selected from material which is suitable to resist chemical attack from the fluid to be sealed and also the operating temperature. This combination of these two components produces a gasket which is resilient and successful in a wide range of services particularly in the Petrocarbon Industries.

Metal Jacketed Gaskets are available in a comprehensive selection of materials and are custom built to clients specific design requirements and are almost without any size limitations. Should gaskets be required to suit standard specifications, Metal Jacketed Gaskets can be produced to ASME B16.21 and EN 1514-4.

Each gasket is individually hand made with meticulous care, by our highly skilled craftsmen, to ensure ease of fitting and long service life.

### Standard Materials for Jacketed Gaskets Outer Shell

Soft Iron, Low Carbon Steel, Stainless Steel (grades 304, 304L, 316, 316L, 321, 410 etc.), Copper, Bronze, Monel®, Aluminium, Hastelloy®, Titanium, Inconel® and Soft Steel.

### Standard Materials of Jacketed Gaskets Filler

Non-Asbestos, PTFE (Sintered or Unsintered), Graphite, Rubber, Firefly, Ceramics and Corrugated Metals

### Metal Jacketed Gaskets - Product Data

#### Metallic Shell Temperature Limits

Inconel®	1095°C
Stainless (400 Series)	850°C
Stainless (300 Series)	540°C to 870°C*
Monel®	820°C
Nickel	760°C
Titanium	540°C
Soft Iron	540°C
Aluminium	425°C
Copper	315°C
Brass	260°C

\*Grade Dependent

#### Non-Metallic Filler Temperature Limits

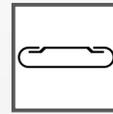
Ceramic	1200°C
Firefly®	1000°C
Non-Asbestos (Millboard)	600°C
Graphite	400°C
PTFE	260°C

#### Applicable Standards

Metal Jacketed Gaskets are produced to individual requirements as well as specifications set out in ASME B16.21 and EN 1514-4 standards.

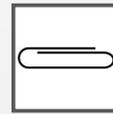
#### Metal Jacket Profiles

Metal Jacketed Gaskets are available in a variety of profiles including these shown below:



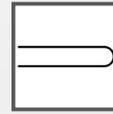
#### Double Jacket

Excellent for high temperature applications. The filler is totally enclosed in a two-piece metal jacket.



#### Single Jacket

Good where narrow flanges are required. The filler is totally enclosed in a one-piece metal jacket.

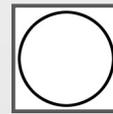


#### Single Jacket Open Edge

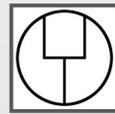
Useful for when only the inside diameter requires the metal jacket protection.

#### Metal Jacket Shapes

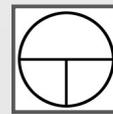
Metal Jacketed Gaskets are manufactured to a number of different shape options with the more popular shown below:



'PR'



'Y' Bar



'T' Bar



'Z' Bar

