

METAFLEX® SPIRAL WOUND GASKETS

DESCRIPTION

James Walker Metaflex® gaskets are designed to seal flanges where temperature, pressure, vibration or flow rates are beyond the capability of conventional jointing materials.

They are wound in V-section metal strip and a softer filler material so that flange surfaces are presented with a spiral of alternate metal/filler layers.



TYPICAL APPLICATIONS

Pipelines and pressure vessels on steam, petrochemical, nuclear, marine and hydraulic plant; and heat-exchangers. **Metaflex Lolode** gaskets are recommended for flange joints where bolt loading is limited.

PRIME FEATURES

- Gaskets are made to a wide variety of sizes and shapes.
- Combinations of metal winding strip and filler are selected to suit the fluid media and operating conditions.
- Quick to install and remove.
- Operating temperatures from cryogenic up to 1000°C.
- System pressures from high vacuum to over 350bar.
- Support rings, inside and/or outside of spiral, make gasket suitable for high line pressure on flat or raised-flange faces.

SPECIFICATIONS

Products are manufactured in accordance with all relevant gasket standards to suit flange designations: ASME B16.5, BS1560, ASME B16.47 Series A (MSS-SP44), ASME B16.47 Series B (API605), BSEN 1092 (BS4504); plus DIN, JIS and NF.

MAXIMUM OPERATING TEMPERATURES OF FILLER MATERIALS

XA Compressed non-asbestos fibre	500°C
SPG Standard purity graphite (oxidising media)	500°C
SPG Standard purity graphite (inert/reducing media)	600°C
SPG Standard purity graphite (steam)	650°C
HPG High purity graphite (oxidising media)	500°C
HPG High purity graphite (inert/reducing media)	600°C
HPG High purity graphite (steam)	650°C
Fluolion® PTFE	260°C
HTF High temperature filler	1000°C
Aluminium and lead also available.	

OPERATING PRESSURE

Metaflex gaskets seal up to 350bar, although higher pressures can be considered.

METAL WINDING STRIPS

Standard materials: stainless steels 304L and 316L. Other materials include: 310, 320 and 321; Monel 400 and K500; nickel 200; titanium; Inconel 600, 625 and X750; Incoloy 800 and 825; Hastelloy HB2 and C276.

SUPPORT RINGS

Standard material: carbon steel. Other materials include: stainless steel 304L, 316L, 320 and 321; titanium; Monel 400 and K500; nickel 200; Fluolion® PTFE (inner rings only); Duplex UNS 31803.

STANDARD SIZES (mm)

Nominal thickness	Compressed thickness	Minimum diameter	Maximum diameter
2.5	1.9/2.1	10	300
3.2	2.4/2.6	10	760
4.5	3.2/3.45	10	1520
7.3	4.7/4.9	60	3550

Largest non-standard gaskets manufactured to date are 5070mm diameter.

HOW SUPPLIED

Almost any combination of component materials is available. Profiles include circular, obround, square, oval and diamond. Gaskets for non-standard flanges are made to order.