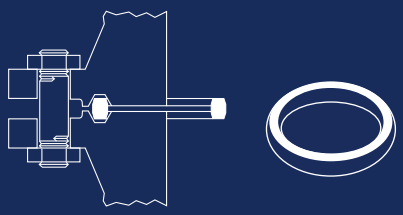
SALMARCON®

We make it seal!

METAL SEALING SOLUTIONS

TRUSTED TO DELIVER INNOVATIVE SOLUTIONS



www.salmarcon.com

About Salmarcon

Established in 2012, as a private owned company, we since have proved to be a succesful growing story. We are specialist in the manufacturing and supply of high-quality industrial sealing products, fluid control, gaskets, fasteners such as stud bolts, nuts, washers and associated services in Turkey. We are more than 100 employees working together in a 15.000m^2 active area located in Çanakkale.

Expert sealing solutions

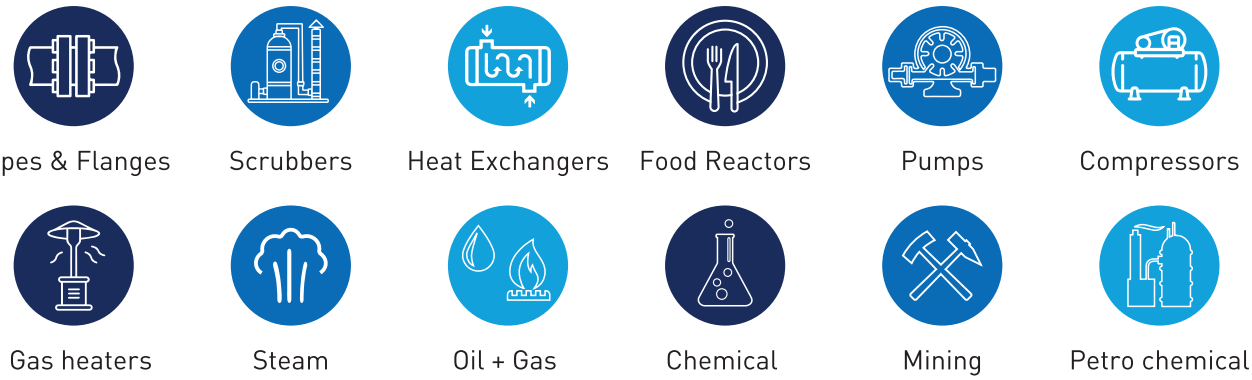
With a mix of world class products and know - ledgeable people we quickly attracted big clients. Ever since we have proven worthy of the trust, and we have turned into one of the top players of the Turkish gasket industry as well as having entered European supply chains.

Certified quality

Our products deliver proven user safety.

- Our products are amongst the most approved and certified products within the industry
- We deliver certified and trusted products worldwide
- EN ISO 9001:2015, ISO 14001:2015 as well as ISO 45001:2018 certified
- Best in market certificates & approvals for all our material.

Our solutions for all applications



METAL GASKETS

Solid profile gaskets made of metal where soft materials are overstrained.

Solid metal flat gaskets are used in areas where, due to the medium, temperature, pressure and/or permitted leakage rate, soft-material or metal/soft-material gaskets are not particularly suitable. They have proven reliable at low temperatures of -200 °C as well as at high temperatures of over 600 °C. They are used at pressures ranging from relatively low to extremely high.

The thickness of the seal and the sealing material are generally dependent on the flange surface and the operating conditions. The better the flange surface in terms of surface quality and evenness, the thinner the gasket that can be used.

It should be noted that soft metals (such as aluminium or silver) need only relatively low surface pressures to become deformed, harder materials on the other hand, particularly steel, require high sealing pressure.

Our portfolio includes:

- Ring Type Jointing seals (RTJ)
- Metallic seal rings
- Special Alloy Seals
- Piping materials

RING TYPE JOINTS (RTJ)

Ring Type Joints (RTJ) are heavy duty, high pressure gaskets largely used in offshore petrochemical applications and can be manufactured from a number of materials to suit the process media and the flange materials.

RTJ are precision machined metallic rings which are designed to be used with API 6B, ASME B16.5 and API 6BX (dependent on the gasket style) flanges. As indicated, RTJs are often used in offshore applications and certain styles can be adapted for subsea installation.

We hold a large range of RTJs in stock in a number of profiles and materials.

Properties of RTJs

- Can be used for high pressures.
- Wide range of materials available.

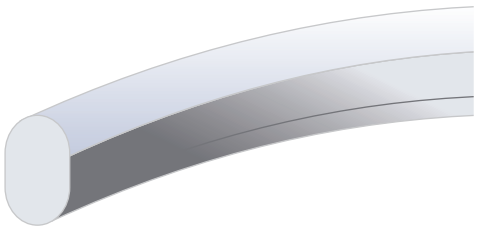
The gasket material is selected on a number of grounds primarily; chemical compatibility with the media and the hardness of the flange. The gasket material ideally needs to be less than the flange material to ensure sufficient deformation of the gasket without damaging the flange facing .

TYPE	NOMINAL PIPE SIZE	CLASS RATINGS
Type R Oval and Octagonal	1/2" to 24"	150 - 2500 ASME B16.20
	26" to 36"	300 - 900 ASME B16.20
	1 1/2" to 20"	Series A - API 6A
Type RX	1 1/2" to 24"	750 - 5000 ASME B16.20
	26" to 36"	300 - 900 ASME B16.20
	1 1/2" to 20"	Series A - API 6A
Type BX	1 11/16" to 21 1/4"	5000 - 20000 ASME B16.20

MATERIAL	TYPICAL MAXIMUM HARDNESS	TEMP. RANGE	MARKING
Soft Iron	90	-60 to 500°C	D
Low Carbon Steel	120	-40 to 500°C	S
4-6% Cr ½% Mo	130	-40 to 650°C	F5
304	160	-250 to 550°C	S304
316	160	-110 to 800°C	S316
321	160	-250 to 800°C	S321
347	160	-250 to 800°C	S347
410	170	-20 to 500°C	S410
Monel (N04400)	135	400°C	N04400
UNS N08904	180	400°C	904L
Inconel 625	-	650°C	625
Incoloy 825	-	450°C	825
Hastelloy C-276	-	450°C	C-276
Titanium	-	350°C	Tl

*Soft iron and carbon steel gaskets are zinc plated to prevent atmospheric corrosion.

Type R oval

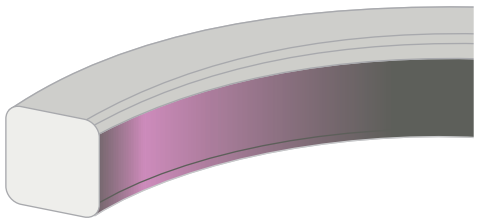


- The original ring joint design
- Can be used on standard flat bottomed groove flanges and older round bottomed groove flanges
- Can be used for ASME B16.5 flange class 150 to 2500 and API 6B to Class 5000
- Soft iron and carbon steel gaskets are zinc plated to prevent corrosion
- All rings are marked with the ring number, material and the date of manufacture and API designation.

Type R octagonal

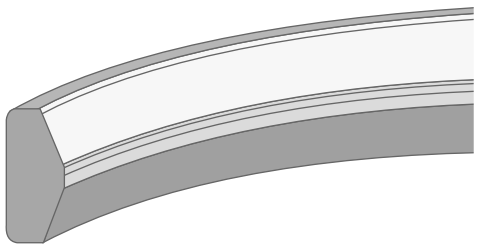
- An improvement on the original oval design
- Can be used on standard flat bottomed groove flanges
- Available for use on ASME B16.5 flange class 150 to 2500, ASME B16.47 Series A flanges and API 6B to Class 5000
- Soft iron and carbon steel gaskets are zinc plated to prevent corrosion
- All rings are marked with the ring number, material and the date of manufacture and API designation.

Type BX



- Suitable for use on API 6BX Flanges up to Class 20000
- During installation the ring is compressed inwards to provide additional sealing stress
- Pressure energized as the internal pressure increases the sealing force increases
- Type BX rings are supplied with pressure relief holes to avoid compressing fluid beneath the gasket
- Can be drilled with additional hole to create a gasket suitable for subsea installation Type "SBX"

Type RX



- Interchangeable with Type R gaskets
- Pressure energized as the internal pressure increases the sealing force increases
- The outer sealing faces make initial contact with the slightly
- Smaller flange groove allowing the gasket to impart additional sealing force
- Can be drilled with additional hole to create a gasket suitable for subsea installation Type "SRX"
- Suitable for use on ASME B16 .5, API 6B to Class 5000 and ASME B16.47 Series A flanges

Non-Standard Ring Joint Gaskets and Seals can be produced as custom made as per technical drawings/details and requirements of our customers.

NORSOK IX Metallic Seal Ring Gaskets

The IX seal ring design exists in one size per DN covering all pressure classes in this product standard and the ring gaskets usually be coated with PTFE.

The NORSOK IX seal ring gaskets are designed and used where the NORSOK CFC (Compact Flange Connections) are in use.

The IX seal ring is designated as described below. The designation elements shall be separated by / (slash). The number of characters is not fixed.

- Standard identification - NCF5.
- Type - and ring size - IX and the appropriate DN.
- Material designation.

Example:

Designation of an IX seal ring for DN 250 and material A182F51 (Duplex):

NCF5/IX250/A182F51

Standard identification as per NORSOK STANDARD L-005 (NCF5) .

Applications

NORSOK IX seal ring gaskets are mainly used for high pressure and high temperature applications when applying as per NORSOK L-005 Compact Flanged Connections .

Typical Properties

NORSOK IX seal ring gaskets are the high integrity seal at high pressures. PTFE coating improves corrosion resistance and provides easy identification. Designed to create a high integrity joint with primary and secondary seals

Typical Specifications

For use up to class 2500 and manufactured to ASME B16 20. Also available in a range of alloys: Low Carbon Steel, Duplex, and Inconel 625 with various type of materials as per requests.

Lens Ring Type Joint Gasket

The lens ring type Joint gasket is usually a line contact seal for use in high pressure piping devices as well as in pressure vessel heads.

This lens cross section is often a spherical gasket surface area and requires specific machining on the flanges. In obtaining lens gaskets, complete drawings and product technical specs need to be supplied.

We can make all kinds of lens ring type joint gasket such as soft iron, SS 304, SS 316L, SS 321, SS 347, 5Cr-0.5Mo, Inconel 600, Incoloy 825, Monel 400, Nickel 200, Hastelloy B2, Hastelloy C276 Lens Ring Type Joint Gasket. With our lines of advanced machine, quality tesing machine and skilled technical workers.

A disadvantage with standard sealing lenses is that, at highpressures and temperatures, the sealing lens can bulge along the circumference and weaken the tension of the connection.

Lens Ring Type Joint Gasket is primarily used in the oil, gas, petrochemical and offshore industries. They are also commonly used on valves, pipe-work assemblies and vessel joints and are used to seal flanged connections subject to high pressures and temperatures.

Diaphragm Seal Gaskets and Special Products

Common uses for diaphragms seals are to isolate and protect equipments from high stress, chemical abrasion and high pressures from the process media.

Metal diaphragm seal for the welding is a type of gasket used for flat covers in exchangers operating works at high temperatures, high pressures or with a high level of both of these two parameters in same time.

They are also used for the hazardous conditions like as in hydrogen installations.

Materials:

They are made of a thin plates of special alloys (Alloy 20, Hastelloy, Monel, Inconel, titanium) , stainless steels (several grades) or several other metals are in common use where high pressure and high temperature ratings and specific chemical compatibility are required.

Applications:

Diaphragm seals are also used to protect a process fluid from the pressure sensor.

- General Industry
- Petrochemical (Oil & Gas)
- Shell & Tube Heat Exchangers especially for high temperature and high temperatures

Addition to above materials, we are the supplier/manufacturer of special Duplex, Super Duplex and alloy products and our solutions are used in a wide variety if applications as show below:

Heat Exchanger

Steam Generators

Steam Boiler

Water-Cooled Condenser

SALMARCON WELDING RING

Welding Ring is a split ring that is engineered and designed to give you a pre measured 1/16" minimum gap for socket welds. Made from a certified stainless steel, Welding Ring resists corrosion from chemicals, radioactive materials and water.

Welding ring is constant, provides proper gap gives precise length whether at site works or fabrication shop pre-assembly.

Benefits:

- Resists corrosion from chemicals, radioactive materials, and water.
- The spring tension makes it fit tightly into all standard sized fittings from 1/4" to 2". (Non-standard sizes are available upon request).
- Once inserted into the fitting the ring becomes a permanent part of the joint.
- It will not rattle or vibrate even under extreme pressure.

Applications:

Designed for use on any socket weld application, Welding rings are suitable for Power Piping Nuclear, Conventional, Industrial Piping, Petrochemical Plants, Fertilizer Plants, Ship Building etc.

Three easy steps to make proper 1/16" minimum gap socket welds in seconds.

1. Fitter compresses Salmarcon Welding Ring to fit into the pipe fitting.

2. Fitter seats ring into fitting. Spring tension holds ring tightly in place, assuring no vibration or rattling even under extreme pressure. Ring actually becomes a permanent part of the joint.

3. Fitter inserts pipe into fitting. Welding ring automatically assures the required minimum gap [1/16"] to meet the code requirements of ASNI 31.1 Section III, ASME & Military codes.

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