MAHAMAN

Mehrad Ramesh
Maham
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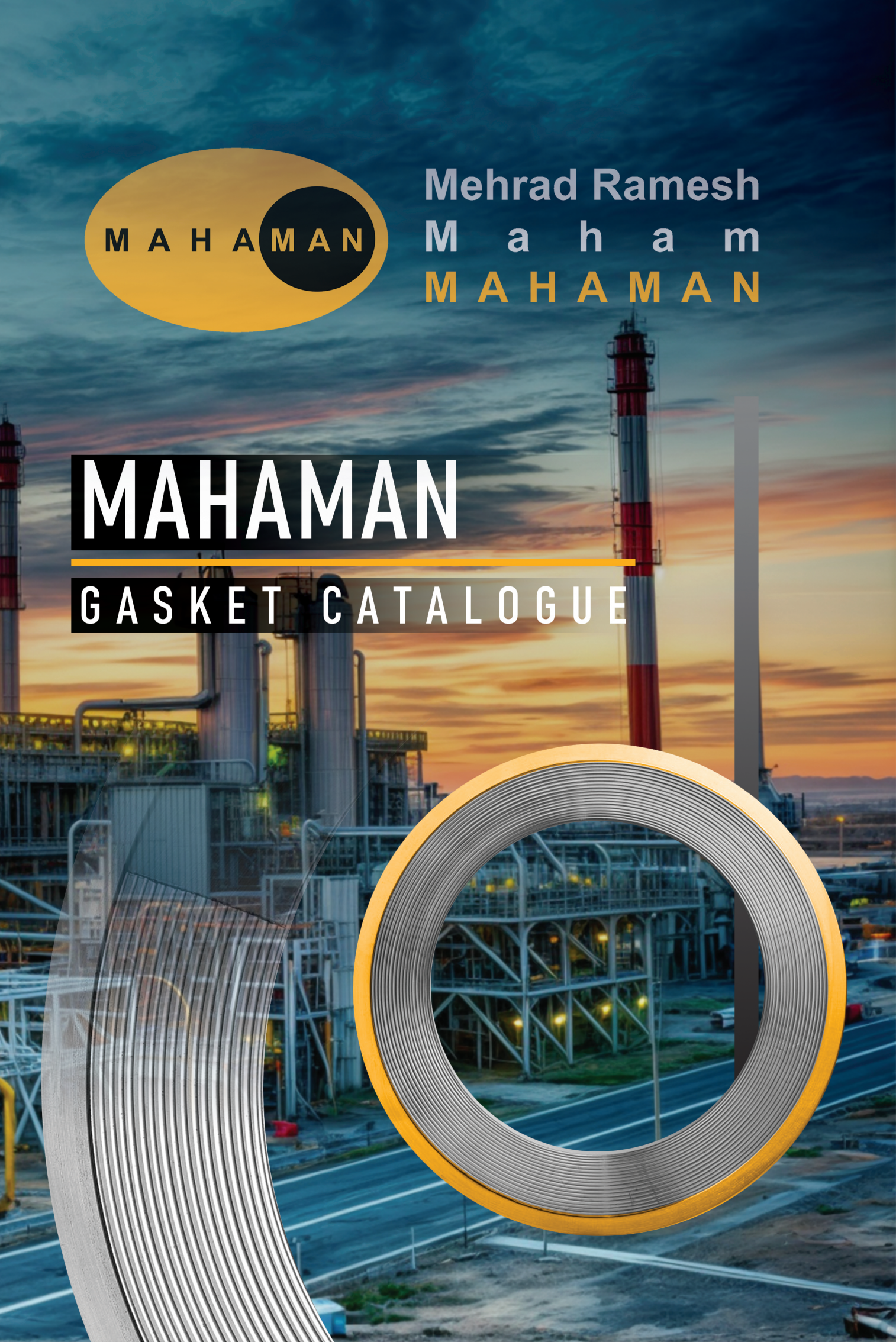
GASKET CATALOGUE



ABOUT US

In 2020, Mehrad Ramesh Maham's technical and engineering team, with the support of the Shahid Hashemi nejad Refinery Innovation Growth Center, has taken valuable steps towards producing one of the strategic sectors in the oil, gas, and petrochemical fields.

Outlook

- Providing quality products according to Internationally standards
- Creating the ability to export to neighboring countries by taking advantage of Sarakhs' exceptional geographical conditions.

Mehrad Ramesh

Maham's values (MAHAMAN)

1- Providing quality products in accordance with global standards

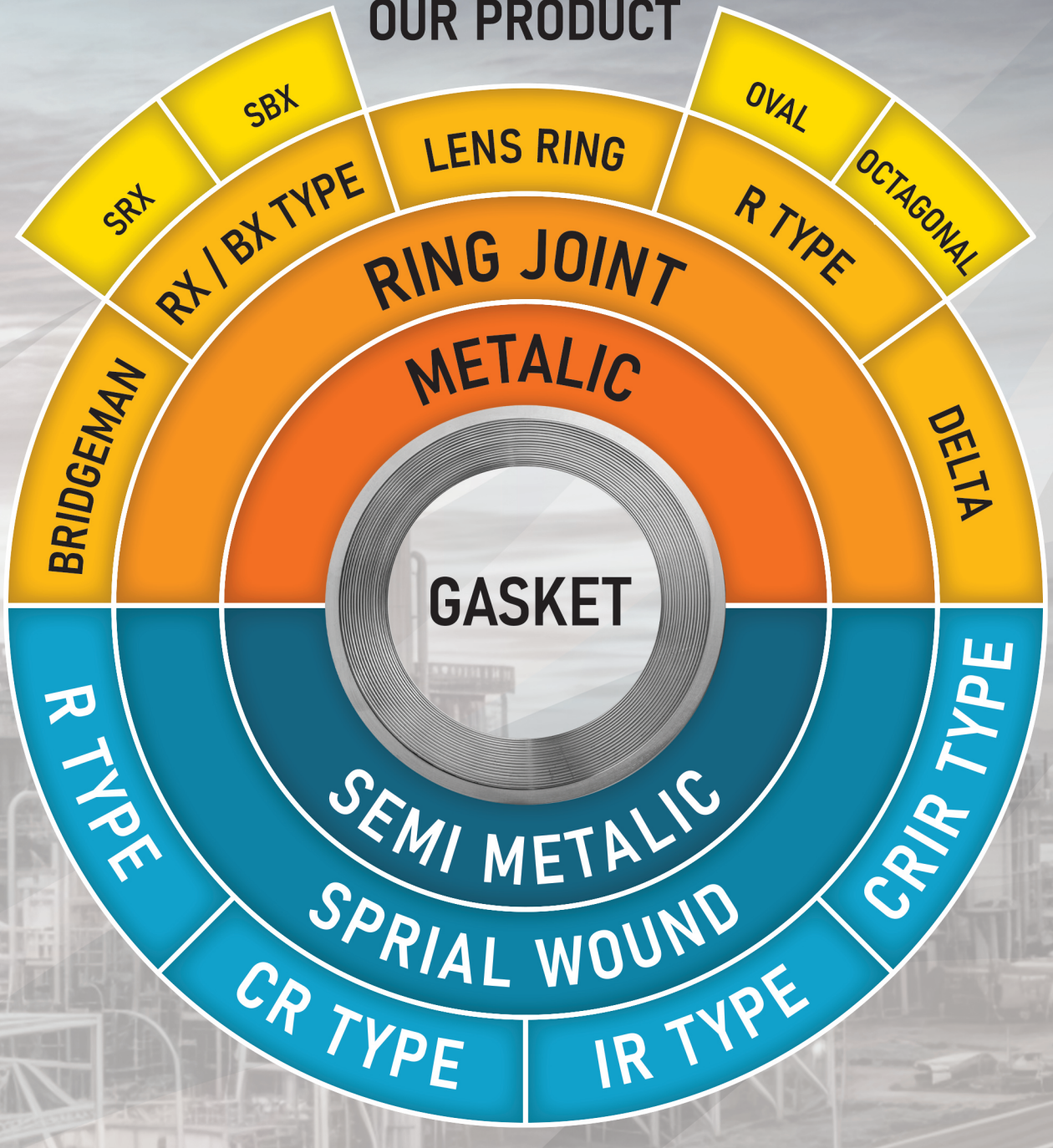
2- Commitment and timely delivery of goods

3- Ability to rebuild spiral wound gaskets of industrial complexes based on standard

4- Entrepreneurship and job creation in the deprived and border region of Sarakhs

5- Allocating a portion of the company's annual income to providing educational facilities for needy children in deprived areas.

OUR PRODUCT


SRX
SBX
RX / BX TYPE
LENS RING
OVAL
OCTAGONAL
R TYPE
BRIDGEMAN
RING JOINT
METALIC
DELTA
GASKET
R TYPE
SEMI METALIC
SPRIAL WOUND
CRIR TYPE
CR TYPE
IR TYPE

GASKET

A gasket is a mechanical seal which fills the space between two or more mating surfaces, generally to prevent leakage from or into the joined objects while under compression. It is a deformable material that is used to create a static seal and maintain that seal under various operating conditions in a mechanical assemble

Gaskets categories

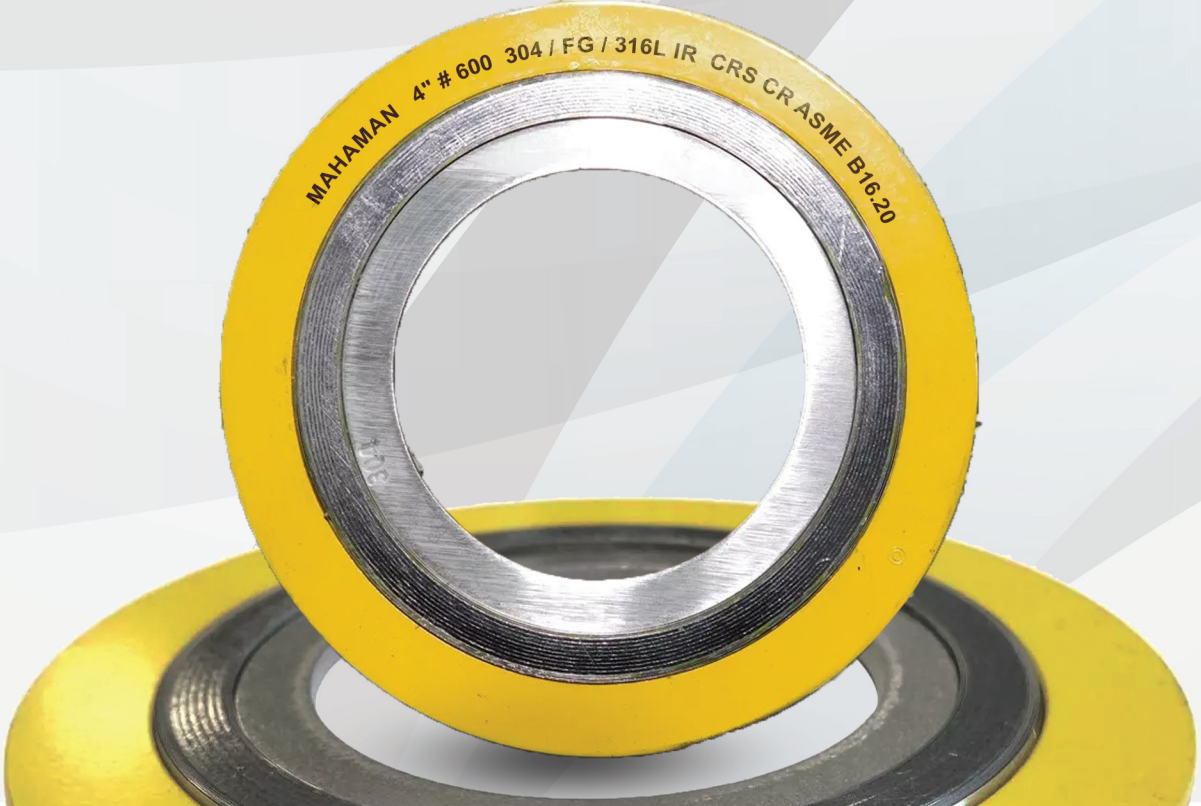
Gaskets can be segregated into three main categories

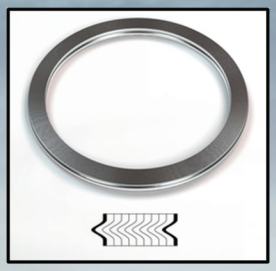
- Non-metallic (soft)
- Semi-metallic
- Metallic

SEMI METALIC

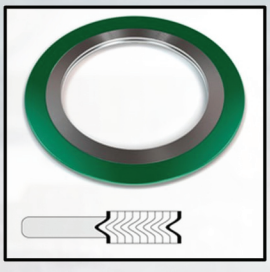
Spiral Wound Gaskets

These gaskets are comprised of a preformed “V” or chevron shaped metal strips alternately wound with a conformable filler material. The metal windings provide strength and resilience, while the non-metallic filler portion conforms to the irregularities of the flanges aiding in the joint seal. These gaskets can be constructed in a variety of densities accommodating available bolting and pressure conditions.

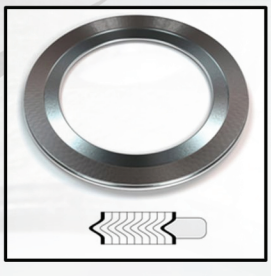




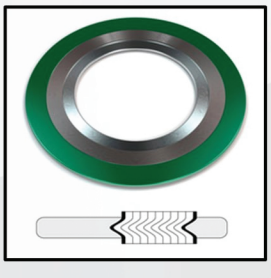
R Type: REINFORCE GASKET



CR Type: REINFORCE GASKET With Centering Ring



IR Type: REINFORCE GASKET With Inner Ring



CRIR Type: REINFORCE GASKET With Inner Ring & Centering Ring

Required Gaskets Thickness

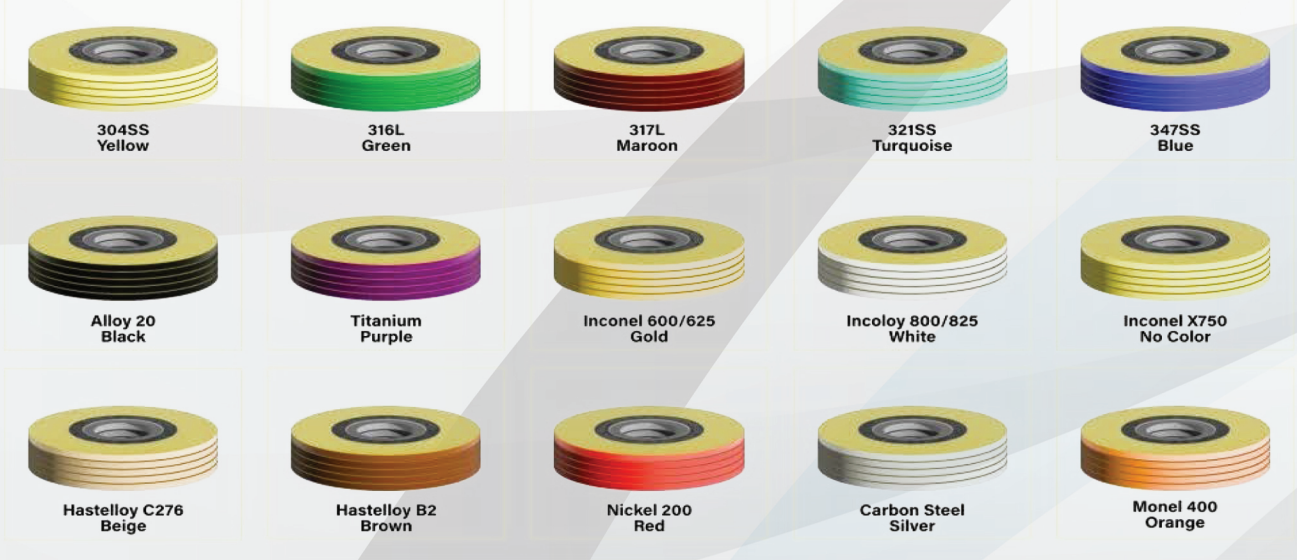
INITIAL GASKET TICKNESS	RECOMMENDED COMPRESSED THICKNESS
1.6	1.3/1.4
2.5	1.9/2.0
3.2	2.3/2.5
4.5	3.2/3.4
6.4	4.6/5.1
7.2	5.1/5.6
& MAHAMAN MANUFATURER COSTOMIZE THICKNESS	

Standard for Spiral Wound Gaskets Use With Flanges

SWG STANDARDS	FLANGES STANDARDS
DIN	DIN 2632 – 2638
EN 1514 -2	Pr EN 1092 -1 , Flanges
ASME B16.20 (API 601)	ANSI B 16.50 ASME B16.47 (API 605) MSS SP 44
ASME B16.20	ANSI B16.5 BS 1560 ASME B16.47
EN 1514 -2 [DIN 2691]	DIN 2512
EN 1514 -2 [DIN 2692]	DIN 2513
ANSI B16.5	ANSI B16.21

MATERIAL	MIN TEMPERATURE	MAX TEMPERATURE
Stainless Steel 304	-254 C (-425 F)	760 C (1400 F)
Stainless Steel 316	-254 C (-425 F)	760 C (1400 F)
Stainless Steel 317	-198 C (-325 F)	760 C (1400 F)
Stainless Steel 321	-254 C (-425 F)	760 C (1400 F)
Stainless Steel 347	-254 C (-425 F)	871 C (1600 F)
Soft Iron, Carbon Steel	-29 C (-20 F)	538 C (1000 F)
Alloy 20 (UNS N08020)	-198 C (-325 F)	871 C (1600 F)
Titanium	-59 C (-75 F)	1093 C (2000 F)
Nickel	-198 C (-325 F)	760 C (1400 F)
Monel 400 (UNS N04400)	-198 C (-325 F)	816 C (1500 F)
Inconel 625 (UNS N06625)	-254 C (-425 F)	1093 C (2000 F)
Hastelloy (UNS N10276)	-254 C (-425 F)	1093 C (2000 F)
FILLER		
Flexible Graphite Non Oxidation Inhibited Oxidation Inhibited	-240 C (-400 F)	 400 C (752 F) - 450 C (842 F) 500 C (932 F) - 525 C (977 F)
PTFE	-210 C (-346 F)	260 C (500 F)
Mica	-240 C (-400 F)	700 C (1292 F) - 750 C (1382 F)
Ceramic	-212 (-349 F)	950 C (1742 F) - 1000 C (1832 F)

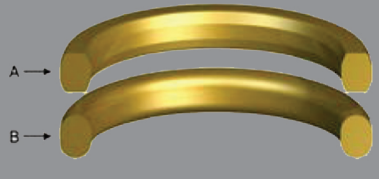
SPIRAL WOUND Color Code According to ASME B16.20



NONMETALLIC FILLER MATERIALS

Metallic Gaskets

Metallic gaskets can be fabricated from a single metal or a combination of metallic materials, in a variety of shapes and sizes. Metallic gaskets are suitable for high temperature and pressure applications. Higher loads are required to seat the gaskets. Types include flat, grooved, round cross-section solid metal, lens rings, ring type joints (RTJ's) and welded gaskets.



Style R, Oval and Octagonal (RTJ)

Standard sizes of these gaskets are manufactured to ASME B26.20 and API 6A specifications.

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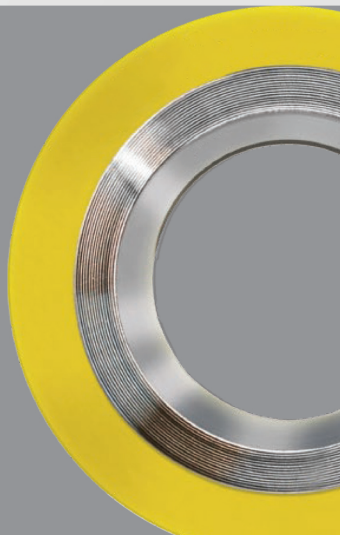
Style RX

The RX style ring joint has a unique self-sealing action. The outside bevels of the ring make the initial contact with the groove as the flanges are brought together with the flange bolting. Style RX ring joint gaskets as specified in ASME B16.20 and API 6A are completely interchangeable with the oval and octagonal series of identical reference numbers and are used in the same flange grooves.



Style BX

grooved flanges on special applications involving high pressures from 344 bar (5,000 psi) to 1,034 bar (15,000 psi). Style BX ring joint gaskets can only be used with API BX flanges and are not interchangeable with the Style RX series.

STYLE SRX / SBX

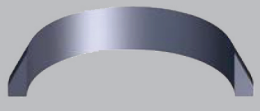
Style SRX and SBX ring joint gaskets are made per API 17D for subsea wellhead and tree.

Style SRX/SBX for Subsea Type

These ring joint gaskets, have cross-drilled holes which connects fluid volume located between the flange joint groove, the ring joint gasket and the bore or ID. This hole prevents fluid located between the joint groove and the ring joint gasket from interfering with proper seating of the gasket. During installation, the gasket is compressed into the flange groove and fluid is allowed to vent into the bore or ID. The SRX and SBX gaskets have identical overall measurements to The RX and BX ring joint gaskets with the same number designation.

These additional vent holes are typically installed in one of two different patterns.

NOTE: The use of vent holes can also reduce the possibility of trapping pressure between one side of the ring joint gasket and the groove, creating a potentially dangerous situation during disassembly.



Lens Ring

These are for high temperature, high pressure applications on pipework, valves and pressure vessels.

This pressure-activated design is used for pressure vessel and valve bonnet gaskets, at pressures 103 bar (1500 psi) and higher. This design has also been adapted to pipe joints which are subject to extreme thermal shock conditions.

Bridgeman

Delta

The pressure-activated Delta cross-section is a pressure vessel or valve bonnet gasket, useful for pressure ranges of 344 bar (5000 psi) and higher.

Gasket Related Considerations

TEMPERATURE	PRESSURE	FLUIDE	GASKET STRESS	GASKET STORAGE
gross physical characteristics	working pressure	gas or liquid	Surface Finish	cool, dry location away from heat minimal dust and no chemical storage or high voltage electrical sources nearby
mechanical resistance properties	system design pressure	hot OR cold	Gasket Thickness	40% to 75% relative humidity
chemical resistance properties	operating pressure	high or low pH	Material Type	as 4°C to 27°C (40°F to 80°F)
-	hydro test pressure	corrosive to benign	-	indirect sunlight
-	-	flammable or non - flammable	-	in a room with no windows and non -UV or low -UV producing lights

NOTE:
For metallic and semi -metallic gaskets, maximum pressure limits are mostly dictated by the available flange load and flange working pressure. Therefore, metallic and semi -metallic gasket pressure ratings are not directly influenced by temperature.

MAHAMAN

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