



# Metallic Ring Joint Gaskets

- Metallic ring joint gaskets are heavy duty, high-pressure gaskets largely used in offshore petrochemical applications. They are precision-engineered components designed to be used in conjunction with precision-machined flanges. All our Ring Joints are manufactured according to ASME B16.20 and API 6A.
- 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 roughly 30 Brinell less than the flange material to ensure sufficient deformation of the gasket without damaging the flange facing.

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Type	Nominal Pipe Size	Class Ratings
Type R Oval and Octagonal	1/2" to 24" 26" to 36" 1 1/2" to 20"	150 to 2500 ASME B16.20 300 to 900 ASME B16.20 Series A API 6A
Type RX	1 1/2" to 24" 26" to 36" 1 1/2" to 20"	720 to 5000 ASME B16.20 300 to 900 ASME B16.20 Series A API 6A
Type BX	1 11/16" to 21 1/4"	5000 to 20000 ASME B16.20

## Common Materials

Material	Brinell Hardness	Temperature Limitation	Identification
Soft Iron	90	-60 to 500°C	D
Low Carbon Steel	120	-40 to 500°C	S
4-6% Cr 1/2% Mo	130	-250 to 500°C	F5
304	160	-250 to 550°C	S304
316	160	-110 to 550°C	S316
321	160	-250 to 550°C	S321
347	160	-250 to 550°C	S347
410	170	-20 to 500°C	S410
UNS N08904	180	400°C	904L
Inconel 625	-	450°C	625
Incoloy 825	-	450°C	825
Hastelloy C-276	-	450°C	C-276
Titanium	-	450°C	TI