



MALPHA GROUP

R Series

Oval

- » The original ring joint design.
- » Used on standard ring joint flat bottom groove flanges.
- » Can be used on older round bottom groove flanges.
- » Available in Ring No. R11 to R105.



Nominal			
Pipe Size (inch)	Class Rating		
1/2" - 24"	150 - 2500 ANSI B16.5 and BS1560		
26" - 36"	300 - 600 MSS SP44 and BS3293		
26" - 36"	900 MSS SP44		
1 (1/2)" - 20"	API 6A Spec.		

Octagonal

- » Modified oval joint ring to provide better sealing performance.
- » Used on standard ring joint flat bottom groove flanges.
- » Available in Ring No. R11 to R105.



Nominal	
Pipe Size (inch)	Class Rating
1/2" - 24"	150 - 2500 ANSI B16.5 and BS1560
26" - 36"	300 - 600 MSS SP44 and BS3293
26" - 36"	900 MSS SP44
1 (1/2)" - 20"	API 6A Spec.

RX Series

- » Provides a pressure energised seal.
- » Used on standard ring joint flat bottom groove flanges.
- » Available in Ring No. RX20 to RX215.



Nominal Pipe Size (inch)	Class Rating	
1 (1/2)" - 20"	720 - 5000 API Flanges	
Fully interchangeable with R Series of identical Ring No.		

BX Series

- » Used in special applications involving high pressures from 350 bar to 1400 bar.
- » Provides a pressure energised seal.
- » Not recommended for reuse.
- » Available in Ring No. BX150 to BX172.



Nominal		
Pipe Size (inch)	Clas	
1 (11/16)" - 21 (1/4)"	500	

Class Rating 5000 - 20000 API Flanges

Material	Brinell Hardness	Rockwell B	Temperature Limits°C	Indentification
Soft Iron	90	56	-60 +500	D
Low Carbon Steel	120	68	-40 +500	S
4% - 6% Chrome 1/2% Mo	130	72	-125 +500	F5
S/S 304	160	83	-250 +500	S304
S/S 316	160	83	-110 +550	S316
S/S 321	160	83	-250 +550	S321
S/S 347	160	83	-250 +550	S347
S/S 410	170	87	-20 +500	S410

INSULATING GASKET SETS

Technical Details



Component		1	2	3	4	5	6
Dielectric Strength	Volts/Mil.	500	200	400/500	140	4000	1500
Compressive Strength	N/mm ²	250	250	-	-	-	180
Flexural Strength	N/mm ²	150	150	-	-	-	-
Water Absorption	%	1.6	1.0	0.01	1.0	0.8	10.6
Max. Operating Temperature	°C	107	107	66	107	180	300

Component Key	Material
1 • Type E and F Central Gasket	3.2 mm Neoprene faced phenolic
2 • Insulating Washer	3.2 mm Reinforced phenolic
3 • Insulating Sleeve	3.2 mm Polyethylene
4 • Insulating Sleeve	• 3.2 mm Phenolic
5 • Insulating Sleeve	• 3.2 mm Mylar
6 • Type E and F Central Gasket	• 3.0 mm Compressed Non-Asbestos - KLINGERsil C4430
	3.0 mm Steel Zinc plated with clear passivate

What are they?

» Designed to minimise the effects of electro chemical erosion.

- » Used to isolate sections of pipework.
- » Made from materials with high dielectric strength.
- » Each set comprises of:
- One central flat or oval section gasket.
- One insulating sleeve pet bolt.
- Two insulating and two plated steel washers per bolt.
- Individually packed and clearly labelled with the flange rating, size, type and material combination.

» Manufactured to suit flanged joints to ANSI, BS, DIN and customer designs.

Typical Example for Insulating Components

One 3mm thick One insulating One 3mm thick One full length insulating gasket One insulating One 3mm thick plated steel washer washer for insulating sleeve or oval ring for washer for plated steel washer for each nut. each nut. for each bolt. ring joint flanges. for each nut. each nut ()

Further Protection

It is recommended that PVC tape be wrapped around the outside of the flange to prevent the ingress of conductive matter.

Ordering Information

When ordering please submit the following details:

- » Flange pressure class and standard.
- » Nominal pipe size.
- » Type E, F or D central gasket.
- » Type of insulating material required for central gasket and sleeves.

Our Product Range

- » "Maxiflex" Spiral Wound Gaskets
- » Heat Exchanger Gaskets
- » Solid Metal Gaskets
- » Ring Joint Gaskets
- » Soft Gaskets
- » Gasket Jointing
- » PTFE Products
- » Fluid Control Products

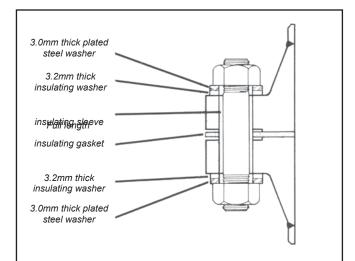
INSULATING GASKET SETS Insulating Range



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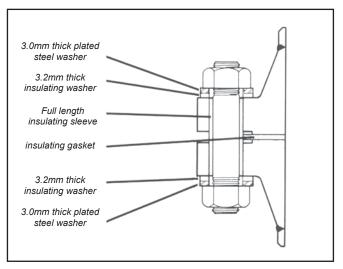
Type E Full Face

- » Full face gasket.
- » Materials:
 - 3.2mm. thick neoprene faced phenolic*. or KLINGERsil C4430 (3.0mm).
- » Insulating sleeve, polyethylene, phenolic or mylar.
- » Insulating washer, reinforced phenolic.



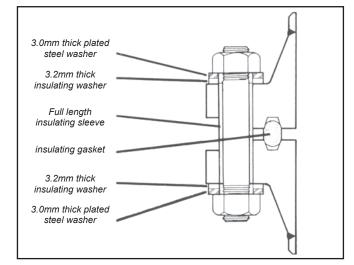
Type F Raised Face

- » Inner bolt circle flat gasket.
- » Materials:
 - 3.2mm. thick neoprene faced reinforced phenolic*. or KLINGERsil C4430 (3.0mm).
- » Insulating sleeve, polyethylene, phenolic or mylar.
- » Insulating washer, reinforced phenolic.



Type D Ring Groove

- » Oval central gasket.
- » Used on ring-joint flanges.
- » Only available in reinforced phenolic.
- » Insulating sleeve, polyethylene, phenolic or mylar.
- » Insulating washer reinforced phenolic.



* Unless otherwise specified, this gasket material will be supplied.