

INSULATION GASKET

LPIFK TYPE

LPIFK sealing Gaskets has the excellent sealing and insulating design for all types' flanges. The sealing elements encapsulated in the special designed groove, avoid the sealing element broken when the bolts torque are not equal. The material such Nitrile, EPDM, VITON and Telfon can be used as sealing elements, this increase the options for different working conditions. The LPIFK is available in both full-face (Type E) and ring style (Type F) configurations. Depending upon the sealing element selected, the LPIFK is rated for most all hydrocarbon and water service applications. Both retainer and sealing element's temperature limit should be considered together while choose the material. Refer to chart for sealing gasket temperature range and material compatibilities.



GASKET MATERIAL

Properties	ASTM	Phenolic	Neoprene Faced Phenolic	G7	G10	G11
Water absorption %	D 570	1.6	1.6	0.07	0.04	0.07
Flexural Strength psi	D 790	22500	22500	27000	65000	62000
Compressive strength psi	D 695	25000	25000	40000	65000	60000
Dielectric Strength Volts/Mil	D 149	500	500	350	800	550
Tensile strength psi	D 638	20000	20000	25000	50000	42000
Insulation resistance Meg.ohms	D 257	40000	40000	2500	200000	200000
Temperature °C	-----	-54 to +104	-54 to +79	-196 to +232	-196 to +150	-196 to +200

SEAL ELEMENT TEMPERATURE LIMITS

Properties	Test Method	NBR	VITON	PTFE/PTFE-SE	Neoprene	EPDM
Temperature °C	-----	-40 to +121	-29 to +177	-196 to +260	-40 to +79	-54 to +149

SLEEVE MATERIAL

Properties	ASTM	Mylar	Nomex	Phenolic	G10	G11
Water absorption %	D 570	0.8	N/A	1.6	0.1	0.1
Flexural Strength psi	D 790	13000	20000	16000	55000	55000
Dielectric Strength Volts/Mil	D 149	4000	400	400	400	400
Temperature °C	-----	-54 to +149	-54 to +232	-54 to +104	-196 to +150	-196 to +200



INSULATION GASKET LPIFK TYPE

WASHER MATERIAL

Properties	ASTM	Phenolic	G7	G10	G11
Water absorption %	D 570	1.6	0.07	0.04	0.07
Compressive strength psi	D 695	33000	40000	65000	60000+
Dielectric Strength Volts/Mil	D 149	500	350	800	550
Temperature °C	-----	-54 to +104	-196 to +232	-196 to +150	-196 to +200

Steel Washer

- ZPS (Zinc plated Carbon Steel)
- XPS (Xylan coated Carbon Steel)
- SS (Stainless Steel)

