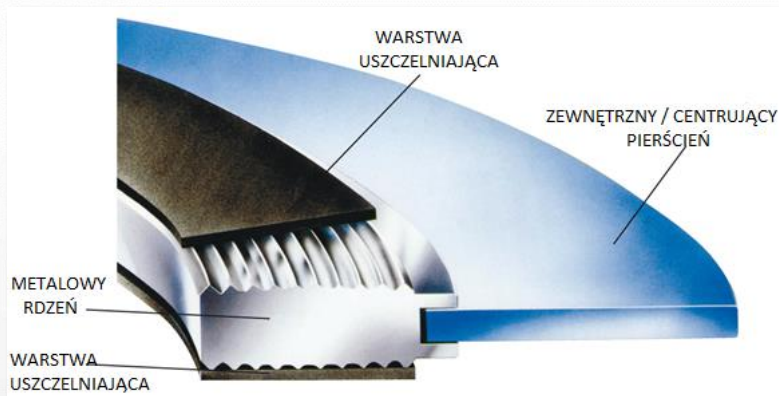


TECHNICAL DATA SHEET

MULTI-EDGE GASKET WKR

Multi-edge gaskets consist of a metal core, usually stainless steel with concentric grooved seal layers on both sides. Multi-edge gaskets can withstand pressures up to 250 bar, depending on the sealing layer. They are temperature resistant up to approximately +1000 °C. Suitable for use according to flange specifications (DIN, ASTM, EN, CSN, etc.). They are characterized by a very wide range of compressive stresses (suitable for different temperatures, pressures), less sensitive to damage caused by installation errors, suitable for flanges designed for lower and higher loads. Gaskets do not cause damage to flange surface. They can be easily removed.

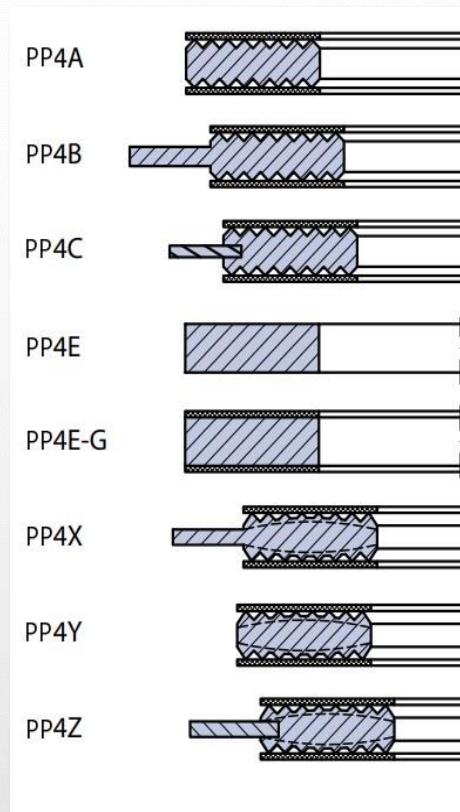


Grooved gaskets are manufactured in several variants:

- PP4B, Parallel main core with centring ring and sealing layers
- PP4C, Parallel main core with a movable centring ring attached to the outer sealing surface.
- PP4E-G, Parallel core without centring ring for keyed/outset and projection/groove flanges
- PP4X, Convex main core with centring ring and sealing layers.
- PP4Y, Convex main core without centring ring with sealing layers for drain/spline and spline/groove flanges.
- PP4Z, with external sealing surface.

APPLICATIONS:

- Chemical and petrochemical industries
- Nuclear power plants
- Steam generation
- Power plants
- Heat exchangers



STANDARD CORE MATERIALS

Material	AISI/ ASTM	DIN EN 10 027-2 material No.	DIN EN 10 027-1 specifications	BS	CSN	Temperature °C		HARDNESS
						Min.	Max.	
Carbon steel	238-C	1.0038	RSt. 37.2 CS	40B	11 375	-40	+500	100-130
Low carbon steel	/	1.1003	M2 / ARMCO	/	/	-60	+500	90-110
Stainless steel	304	1.4301	X5CrNi 18	304S15/16/31	17 240	-200	+550	130-180
Stainless steel	304L	1.4307	X2CrNi 189	304S11	17 249	-270	+550	130-190
Stainless steel	309	1.4828	X15CrNiSi 2012	309S24	17 251	-110	+1000	130-190
Stainless steel	316	1.4401	X5CrNiMo 1810	316S31/33	17 346	-200	+550	130-180
Stainless steel	316Ti	1.4571	X10CrNiMoTi 1810	320S31	17 348	-270	+550	130-190
Stainless steel	316L	1.4404	X2CrNiMo 1810	316S11/13	17 349	-200	+550	130-190
Stainless steel	321	1.4541	X10CrNiTi 189	321S12/49/87	17 247	-270	+550	130-190

Recommended thickness is 3 mm, or 4 mm for new systems.

FILLING:

Material	Temperature min.	Temperature max.
Graphite	-200	+550
PTFE	-200	+260
Mica	-200	+1000
Ceramic Matr.	-200	+1100
CSF	-40	+250

Recommended flange surface finish: Ra = 3.2 - 6.3 µm

DIMENSIONS AND SIZES

Standard sizes are made according to EN or ASME / ANSI, custom sizes are available upon request. Grooved gasket sizes can range from 15 mm to 4000 mm, with thicknesses from 2 mm to 20 mm.

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