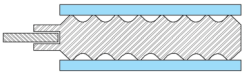
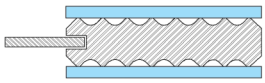
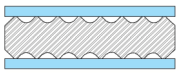
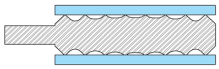
Kammprofile

Grooved Metal Gasket With Covering Layers

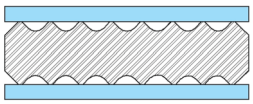
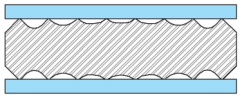
Durlon® Kammprofile gaskets have a solid metal core with concentrically serrated grooves machined into the top and bottom faces. The metal core is typically stainless steel but it can be supplied in various metallurgies as per the customer's request. The serrated core is covered with soft sealing material and is dependent on the service conditions of the system. Flexible graphite and expanded PTFE sealing layers are most common, but other soft materials can be used as well. While providing the Durlon® Kammprofile gasket with excellent sealing properties, the soft sealing layers also fill in minor flange imperfections and protect the flange surfaces from damage.

K40PEF & K40CEF Extended Core Floating Centering Ring	**K40PF & K40CF** Floating Centering Ring	**K40P & K40C** No Centering Ring	**K40PI & K40CI** Integral Centering Ring
Similar to the floating centering ring, this style has an extended core whereby providing additional strength and stability to the overall floating design.	A loose fitting centering ring is recommended on applications where thermal or pressure cycling can affect the integrity of the serrated metal core. It allows for expansion and contraction of the core through these cycling conditions.	This basic configuration is most often used in tongue/ groove and male/female flanges.	The centering ring is used to position the gasket between flat face and raised face type flanges.
			

Application

Durlon® Kammprofile gaskets are the preferred choice for applications requiring improved performance at low seating stresses. The serrated peaks provide reduced contact area and when combined with the soft conformable sealing layers, the Durlon® Kammprofile gasket provides a virtual metal-to-metal connection. They feature excellent resistance to blowout and provide superior stability for ease of handling and installation.

Durlon® Kammprofile gaskets are offered in 4 styles in each of the 2 core designs.

K40P Parallel Root Core	K40C Convex Root Core
This core design is where the main sealing faces of the serrated metal core are parallel to each other. These are the standard design of Kammprofile gaskets	This core design is where the main sealing faces of the serrated metal core are slightly convex in profile. The convex core helps compensate when flange rotation is experienced on bolt
	

Core Materials

- Standard core material is 316 stainless steel with a nominal thickness of 0.125” (3mm)
- Other core materials and thicknesses are available to suit specific applications
- Core material is generally selected in an identical material to the piping system in order to reduce corrosion problems

Facing Materials

- Standard facing material is flexible graphite with a nominal thickness of 0.020” (0.5mm)
- Other facing materials and thicknesses are available to suit specific applications

Shapes

- Round, ovals (normal or irregular), manways, track shapes, diamonds, squares/rectangles, with ribs, etc.

Flange Surface Finish

- The ideal flange surface finish for use with Kammprofile gaskets is 125-250

Physical Properties	
Temperature Min Max (material dependent)	 -200°C (-328°F) 1,000°C (1,832°F)
Pressure, max, bar (psi)	414 (6,000)
pH range, Room Temp	0-14
Gasket Factors m Y, psi	 4.00 1,000

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