

TECH NOTE

ISO 9001:2008

ISO 14001

WHY USE DIFFERENT GROOVE DESIGNS FOR MAXIPROFILE (KAMMPROFILE) ?

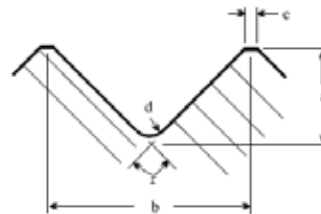
Grooved gaskets (also called “serrated gaskets”) are a preferred sealing element when improved performance at low seating stresses is required on high temperature, high pressure environments or where elastomers cannot be used. MAXIPROFILE and KAMMPROFILE are common trade-names for these semi-metallic gaskets.

Why are there different groove types ?

Simply said, it depends on gasket diameters, small or large. According to the original standard for serrated gaskets, German specification DIN 2697, there are two types of grooves available for Maxiprofile gaskets, namely type A and type B. The following drawing and table presents the dimensional data for the two types.

Dimensions in mm and (degrees for r)

	a	b	c	d	r
Type A	0.50	1.00	0.10	0.3	90
Type B	0.75	1.50	0.10	0.3	90



TYPE A : Used for gaskets of smaller diameters that are stiff enough for handling even if core is 2mm to 3.2 mm thick (0.078” to 0.125” thk.)

TYPE B : when producing gaskets of large diameters, thicker core material (0.150” + / 4mm +) is used for improved stiffness during handling, preventing bending of the gasket in awkward locations. To reduce manufacturing cost (and price), wider “Type B” grooves are used.

PLEASE NOTE :

Type A profile must be combined with graphite layer of 0.5 mm (0.040”) thick and PTFE layers of 0.35 mm (0.014”) thick

Type B profile must be combined with graphite layer of 1.0 mm (0.040”) thick and PTFE layers of 0.5 mm (0.020”) thick

** A satisfactory level of sealing is routinely achieved with graphite density of 1 gm/cm³ .**

Contact Robco if you require more information !

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Incorrectly rolled-in grooves with laminated cutter



CNC lathe purpose built machine