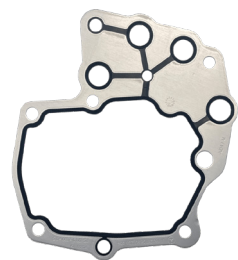
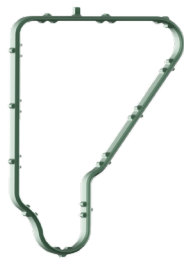


OUR PORTFOLIO FOR STATIC SEALS

KACO offers a wide range of **static seals**. From **pure moulded rubber parts** to **various designs bonded to carrier components**, we offer the right solution for static sealing tasks. Specific requirements such as ease of assembly, functional integration or EMC protection are met according to the application.

FIELDS OF APPLICATION

- Gearboxes
- Pumps and compressors
- Turbochargers
- E-mobility
- Fuel cell stacks
- Electrolyzer stacks



	PIP Seals (Pressed in Place)	Static Gaskets from SOLYEM	Edge-Bonded Flat Seals
Material Options	EPDM, FKM, AEM, HNBR and NBR	Silicone VMQ 70 shore or Silicone VMQ 40 shore dedicated to fuel cell	FKM, NBR, HNBR, AEM or EPDM
Resistance to oils, coolants and lubricants	Prevention of leakage and damage to the seal by selecting the right material against different media	Prevention of leakage and damage to the seal by adjusting the bead height according to the deformations of the housings	Prevention of leakage and damage to the seal by selecting the right material against different media
Vibration & shock resistance	Ideal for dynamic loads in vehicle applications		
Optimum compensation of the sealing gap	Good adaptability to different sealing surfaces		
Resistance in the salt spray test	Tested in accordance with VDA 233-102 for maximum corrosion resistance		
IP protection class	UL94 V0		
Temperature range	-40 °C to +250 °C		

The information and values listed here were determined under model and laboratory conditions. They do not represent any assured properties, guarantees or warranties. The validation of the products in the respective application, their performance as well as their suitability for a specific purpose is the responsibility of the user.

PIP (PRESSED-IN-PLACE) SEALS



A summary of the advantages

- Cost-efficient alternative to classic flat gaskets
- Increased design flexibility - perfect adaptation to complex housing shapes
- Long lifetime due to optimized material selection
- Outstanding environmental and chemical resistance
- Increased protection of the space to be sealed

Material options	EPDM, FKM, AEM, HNBR and NBR
Temperature range	-40 °C to +250 °C
Optimum compensation of the sealing gap	High adaptability to different sealing surfaces
IP protection class	IP67, IP6K9K according to ISO20653
Resistance to oils, coolants and lubricants	Prevention of leakage and damage to the seal by selecting the right material against different media
Resistance in the salt spray test	Tested in accordance with VDA 233-102 for maximum corrosion resistance
Outstanding compression properties	Uniform sealing effect even with low contact forces
Vibration & shock resistance	Ideal for dynamic loads in vehicle applications
Fixation	Fixation in the groove with retaining cams & simple installation - no additional fastening material required

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STATIC GASKETS FROM SOLYEM



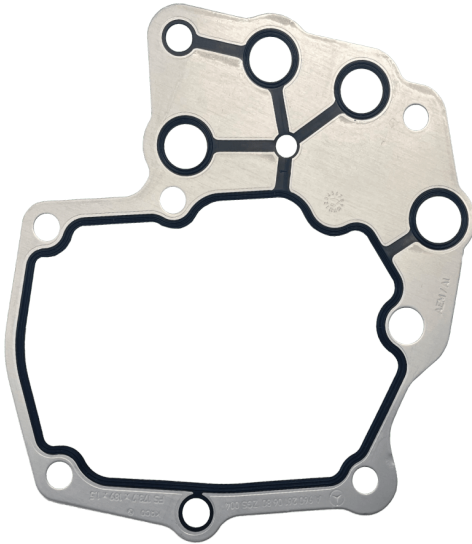
A summary of the advantages

- Compensation for housing deformations
- Optimization of the number of bolts and wall thickness
- High robustness
- Easy and quick assembly

Carrier material	Stainless steel, aluminum or zinc-coated steel for high stability and corrosion protection as well as plastic PET for light applications or PEN for Fuel Cell
Material options	Silicone VMQ 70 shore or Silicone VMQ 40 shore dedicated to fuel cell
Temperature range	from -40 °C to 200 °C
Optimum compensation of the sealing gap	High adaptability to different sealing surfaces
Optimum housing design	Optimization of the number of bolts and wall thickness
Resistance to oils, coolants and lubricants	Prevention of leakage and damage to the seal by adjusting the bead height according to the deformations of the housings
Outstanding compression properties	Uniform sealing effect even with low contact forces
Pressure ranges	Low pressure range: can be used up to approx. 10 bar without any problems Medium pressure range: up to approx. 30 bars depending on design

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EDGE - BONDED FLAT GASKETS



A summary of the advantages

- Customer-friendly handling enables quick and easy installation
- Provides reliable EMC protection
- Optimized sealing against environmental influences & temperature fluctuations
- Durability & resistance to pressure, temperature and media
- Solutions adapted to customer requirements in the design of the sealing profile

Carrier material	Stainless steel, aluminum or zinc-coated steel for high stability and corrosion protection as well as plastic for special applications
Material options	FKM, NBR , HNBR, AEM or EPDM
Material development	Specially coordinated material mixtures for the highest customer requirements
Temperature range	-40 °C to +250 °C
Optimum compensation of the sealing gap	Good adaptability to different sealing surfaces
IP protection class	IP67, IP6K9K according to ISO20653
Resistance to oils, coolants and lubricants	Prevention of leakage and damage to the seal by selecting the right material against different media
Resistance in the salt spray test	Tested in accordance with VDA 233-102 for maximum corrosion resistance
Corrosion protection	Carrier material made of stainless steel or coated aluminum offers long-term durability
Vibration & shock resistance	Ideal for dynamic loads in vehicle applications
Pressure ranges	Low pressure range: can be used up to approx. 10 bar without any problems Medium pressure range: up to approx. 40-60 bar depending on design and material mix High pressure range: possible with metal carriers and high-performance elastomers up to 250 bar

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