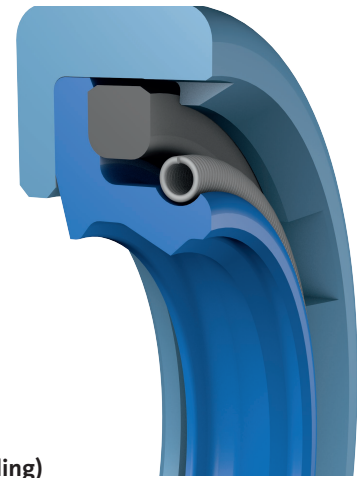


MODULAR PLASTIC SEALING CONCEPT (MPSC)



PRODUCT DESCRIPTION

Design for application in units with low thermal strain and without pressure differences preferably in combination with plastic housing for sealing of power units and gear boxes. Within this modular sealing concept different application specific sealing materials can be combined. Optional protection and bearing functions are adaptable.

PRODUCT ADVANTAGES

- Very small shaft diameters possible
- Applicable for dry run or insufficient lubrication (friction and wear optimized PTFE)
- Design options for minimal height
- Adaptability of bearings and / or protection caps possible
- Free choice of color
- Customer specific modular combination of housing and sealing material
- Simple approach for dust seal with non-woven
- Substitution of components, assembly steps and logistical processes
- Weight reduction compared to standard RSS
- Energy efficient because of low friction (non-woven)
- Suitable for form-fit with housing during installation (depending on housing material)

PRODUCT PROPERTIES

- Housing made of thermoplastic material
- Flexible material and design selection of the dynamic seal component
- Application specific selection of thermoplast possible
- Outer diameter 10-80 mm*
- Extensive basic tests conducted
- Continuous operating temperature -25 to 70°C*
- Range of use for tested plastic up to 100°C (short term)

*Depending on material pairing, operating conditions and installation situation

APPLICATION

- Applications with plastic housing
- Kitchen and household devices with rotating shafts
- Electric vehicles (e.g. E-Bike); tools and gardening equipment
- Pool and pond pumps

Components (static sealing)

Outer housing	Thermoplast
Clamp ring	Thermoplast

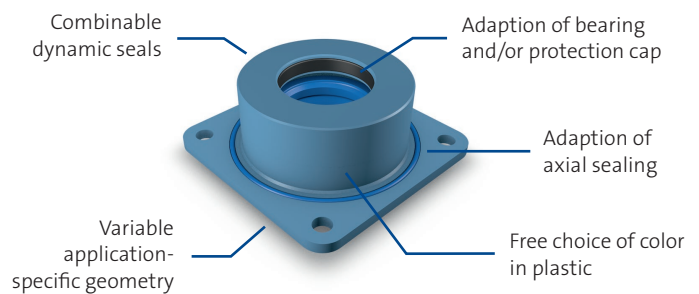
Components (optionally adaptable)

Protection cap	Thermoplast
Bearing	Thermoplast
Spring	Spring steel DIN EN 10270-1
O-Ring	Application-specific elastomer

Sealing materials (dynamic seal)

Material	Application-specific Elastomer	Non-woven	PTFE
Dust seal	x	x	x
Grease seal	x		x
Dry run/insufficient lubrication		x	x
Oil seal (pre-development)	Spring-loaded elastomer sealing lip		

Combinable modular sealing options and adaptations



Further adaptations on customer request possible