

DYNAMICSEAL SDP SERIES

SHAFT SEALS

Individual solution for the sealing of
vertically installed mixers

The SDP series is used in agitators, mixers, dryers and conveyors. In this case, the medium is sealed against atmosphere within a pressure range from vacuum up to about 3 barg.

THE STRUCTURE

The seal features a rotating mating ring clamped on the shaft, which seals against the axially movable sliding ring. The seal is pressurised with a buffer gas. If the sealing surfaces are displaced, for example due to strong wave action, a small amount of buffer gas flows through the sealing gap and thus prevents the mixed material from entering the sealing area. This prevents full ingress of the mixed material into the sealing area. The buffer gas consumption is minimised by secondary seals. A supplied shaft sleeve prevents the shaft from being damaged by contacting dynamic parts, e.g. the sealing rings.

The running surface of the mating ring consists of a PTFE compound specially tailored to the application area. This, together with the customised sealing rings, ensures long service life and low friction losses. This also minimises the amount of heat absorbed by the mixture.

The design can be determined to any shaft diameter and can be adapted flexibly to meet different installation conditions.

THE APPLICATION

The SDP series mixer seals from STASSKOL are suitable for sealing against suspensions, powder and dust and has been optimised for the usage in mixing technology with emphasis on particularly critical media, e.g. colour pigments.

MATERIALS

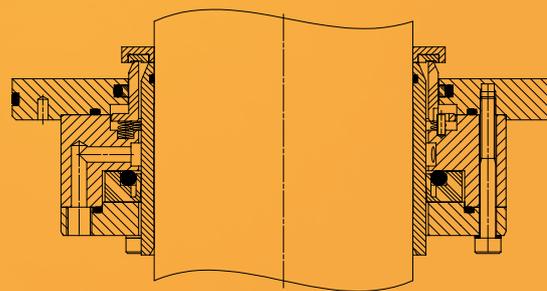
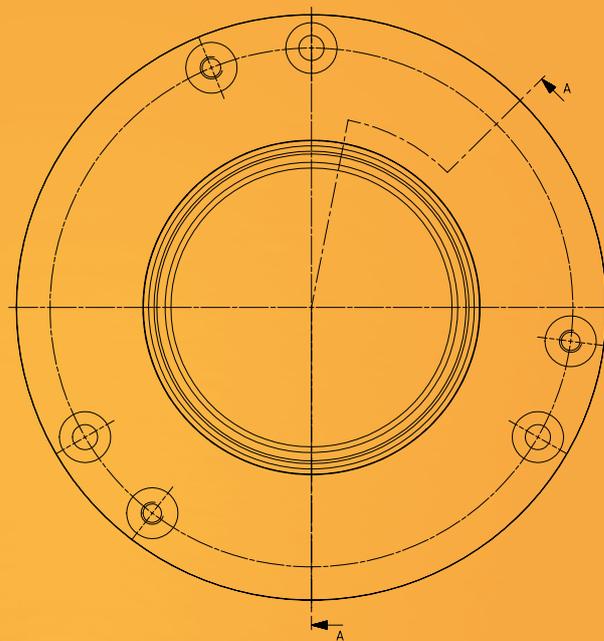
Mating ring:	application-specific PTFE compounds
Secondary seals:	PTFE compounds and Viton
Housing:	1.4021, other materials possible upon request

PARAMETERS

Temperature:	-10°C to 180°C
Pressure:	Vacuum to 3 barg
Buffer gas:	Air, nitrogen, other gases possible upon request

ASSEMBLY INSTRUCTIONS:

For easy assembly, the seal components are largely pre-assembled. This guarantees the optimum installation position of all components and protects the sealing elements against damage during assembly.



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