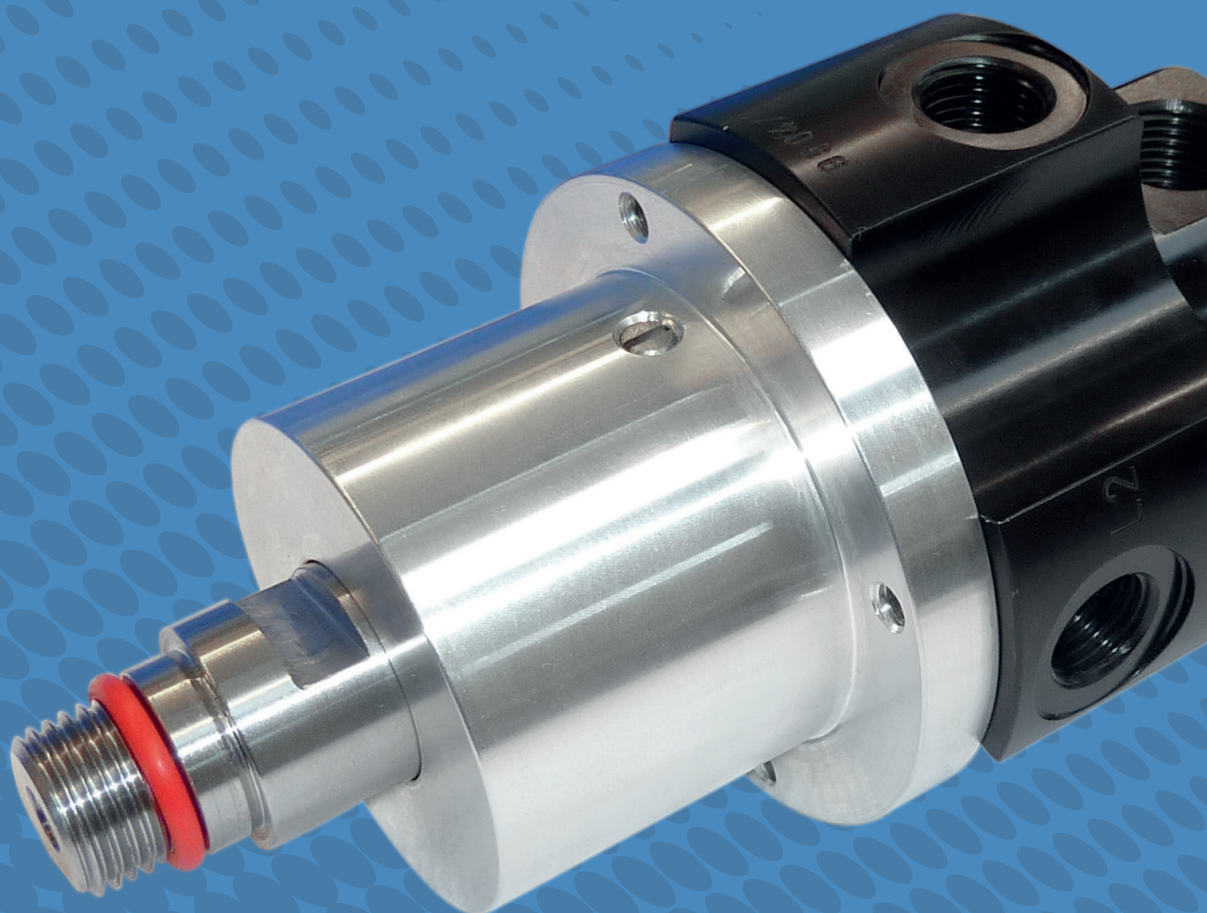


ROTODISK S



ROTARY UNION WITH AXIAL
MECHANICAL SEAL



GAT[®]

MOOG

ROTODISK S

ROTARY UNION WITH AXIAL MECHANICAL SEAL

ROTODISK rotary unions are used wherever media such as emulsion, oil, air, or oil-air mixtures need to be reliably transferred into a rotating system. In addition to the large number of standard designs, we offer custom-made solutions that are optimally tailored to your applications and installation conditions. GAT Bearing-Protection-Seals (BPS) protect bearing packages against compressed air used to blow out chips, complementing the overall package of our product technology.



ROTODISK S0-AKM
Bearing-Protection-Seals (BPS)

Media purity	ISO 4406-17/15/12, NAS 1638-6, SAE 749-3
Filtration grade	max. 50 µm
Operating temperature	-20° C to +80° C
Dry-running properties	unlimited for all designs of model line S

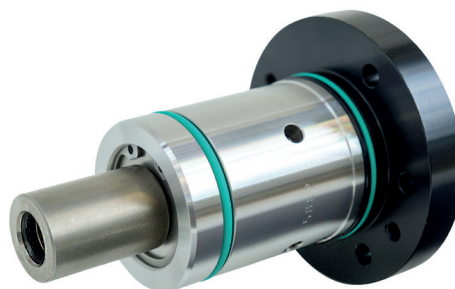
STANDARD DESIGNS

SHAFT VARIANTS



Threaded shaft

≤ 10,000 rpm



Plug-type shaft

> 10,000 rpm

SYSTEM DESIGNS

STD (standard)

- Minimal leak pulse at tool change
- Reliable coolant transfer at high pressure

GGL (enclosed mechanical seal disc)

- No leak pulse at tool change
- Optimal for low pressures
- Leak-free air transfer

AKM (all media)

- Combines all benefits of the STD and GGL designs

Design	STD	GGL	AKM
Max. emulsion pressure [bar]	120	40/80***	120
Max. IMMS pressure [bar]	20	20	20
Max. air pressure [bar]	20**	20	20

At standstill only; *optional, dry-running not possible.
Please inquire for further media or higher pressures.

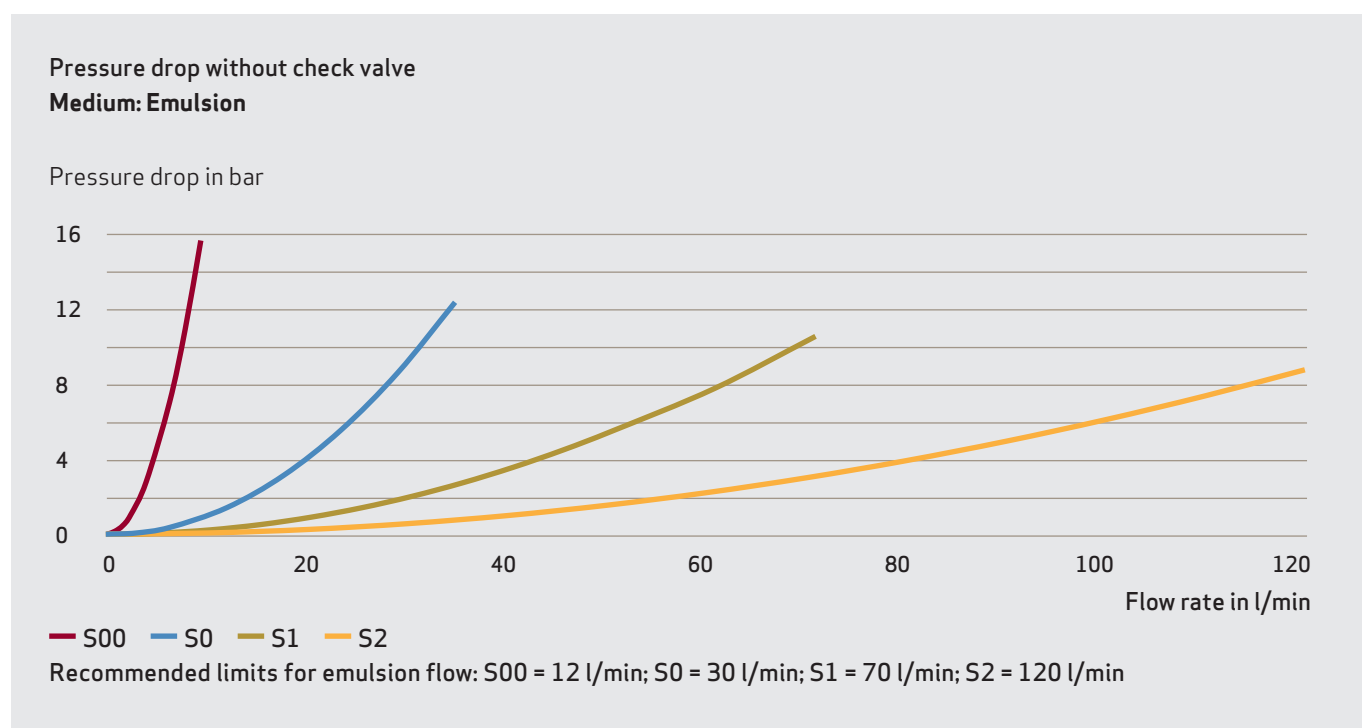
BEARING DESIGNS

Design	SP	HY
Max. rotational speed [rpm]	32,000	42,000

SIZES

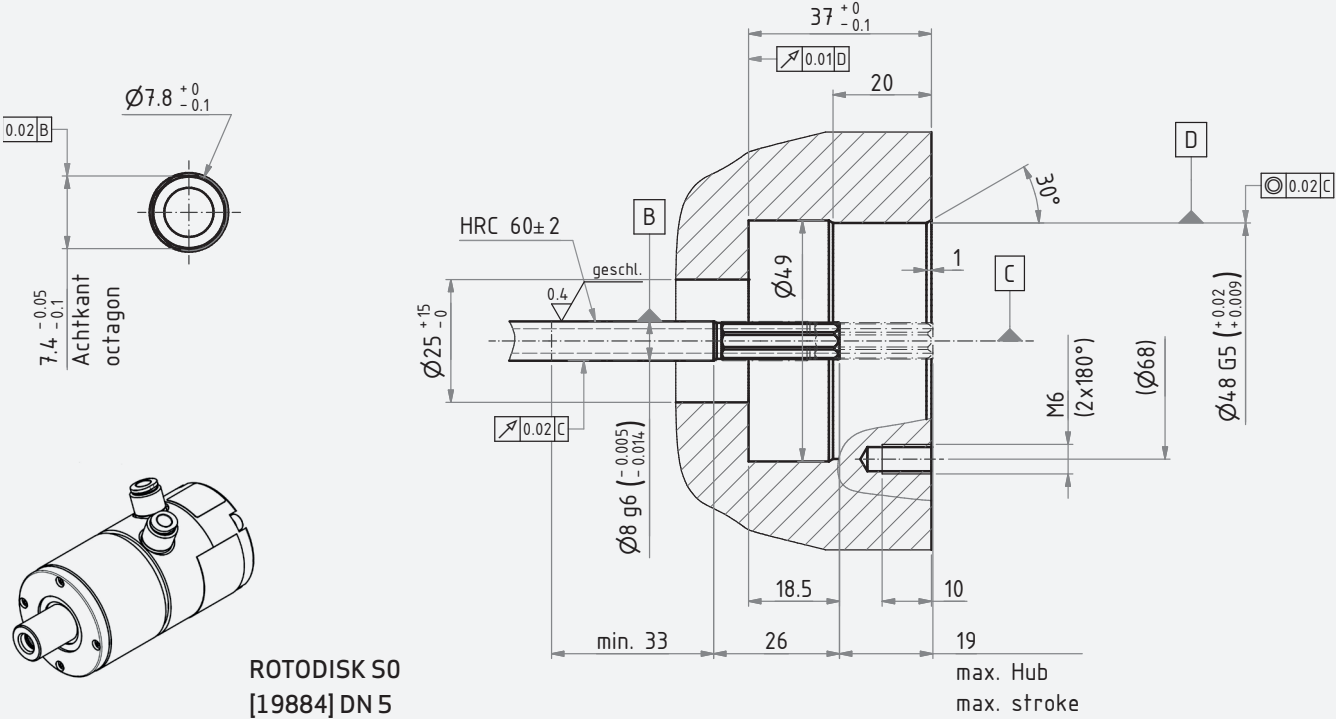
Sizes	S00	S0	S1	S2
Nominal widths	DN 3	DN 5	DN 8	DN 11

FLOW DIAGRAM

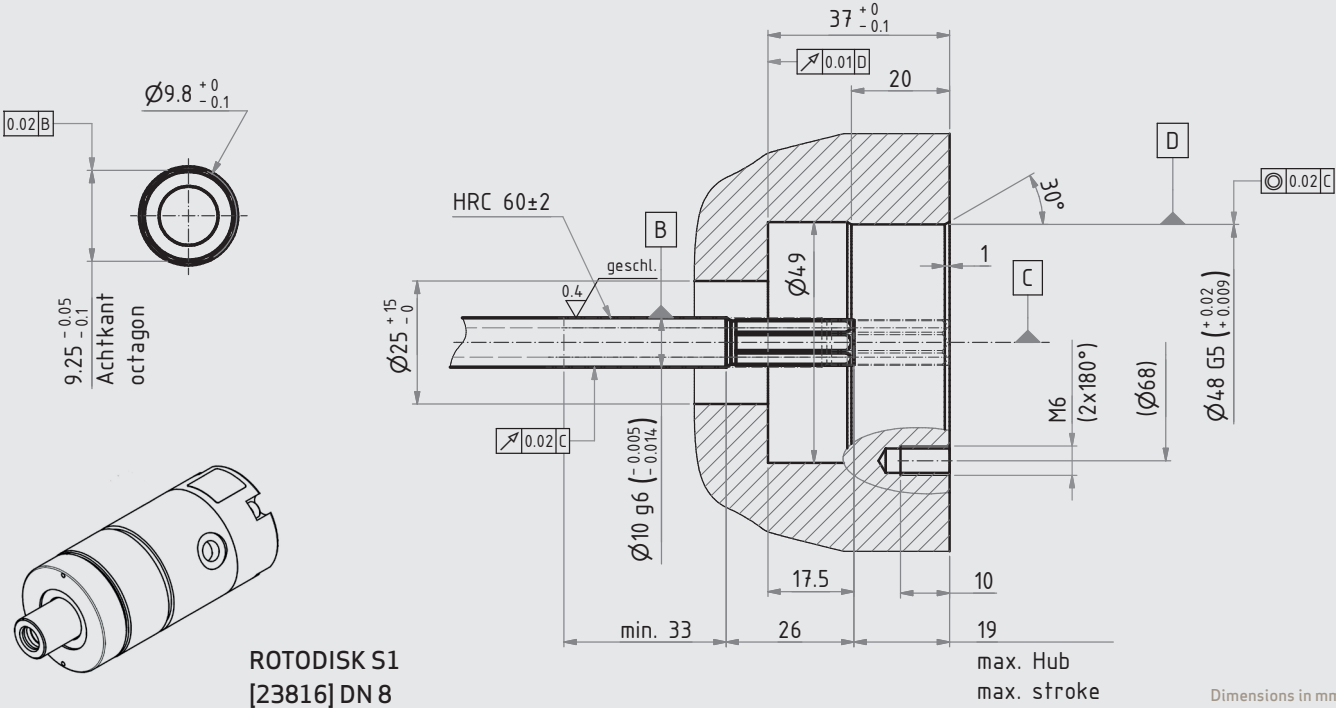


STANDARDIZED INSTALLATION SPECIFICATIONS

COUNTERPART ROTODISK S0



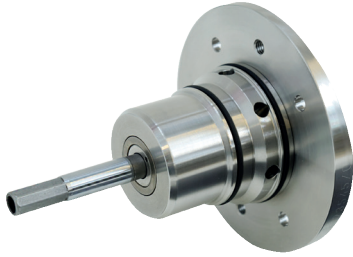
COUNTERPART ROTODISK S1



Dimensions in mm

CUSTOM SOLUTIONS

ROTODISK S FOR CUSTOMER-SPECIFIC APPLICATIONS



ROTODISK S0-AKM
Integrated actuator rod



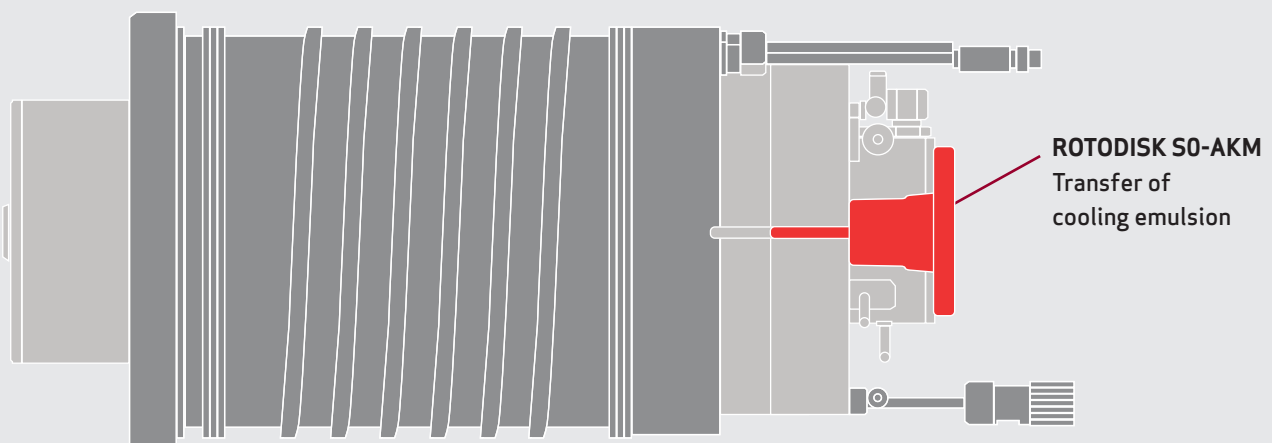
ROTODISK S23-I/V01+02
High flow rates at high pressures

CONDITION MONITORING

We offer smart ROTODISK S rotary unions for the monitoring of current operating parameters and the analysis of operating states. This facilitates optimal planning of service intervals and prepares the ground for automated service processes.

APPLICATION EXAMPLE

INTEGRATION OF A ROTARY UNION IN A SPINDLE



INSTALLATION SETS

INSTALLATION SETS (EBS) ARE AVAILABLE IN VARIOUS DESIGNS



Installation set:
ROTODISK S0



30 mm



Installation set:
ROTODISK S1



30 mm

INSTALLATION SET FEATURES

- Integration in existing systems
- Optional with customer-specific housing parts
- Use of bearings provided by customers

OPERATING INFORMATION

SPECIFIC OPERATING CONDITIONS

- Enclosed tool
- Tools with small cooling channels
(IKZ bore < \varnothing 0.1 mm)
- Operating conditions > 80° C
- Air at speeds > 24,000 rpm

Visit our website to find the Moog office nearest you, www.gat-mbh.de

For product information, visit www.gat-mbh.de/en/products

For service information, visit www.gat-mbh.de/en/contact/service

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Moog GAT GmbH
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