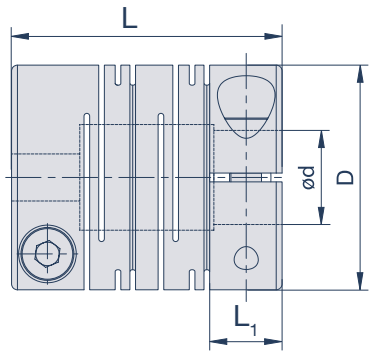
Sliflex GRC-SS | Stainless steel

Clambing hub version



Specifications

Size	D mm	L mm	M	T_A Nm	max. rpm min^{-1}	T_{KN} Nm	C_T Nm/rad	g g	Misalignement radial mm	angular °	axial mm
GRC12-SS	12,7	19	M2	0,5	32.000	0,2	65	13	0,1	2,5	0,3
GRC16-SS	16	21,5	M2,6	1	25.000	0,4	85	26	0,15	2,5	0,3
GRC19-SS	19,1	23	M2,6	1	18.000	0,6	230	32	0,15	2,5	0,3
GRC22-SS	22,2	26,5	M3	1,7	15.000	1	290	43	0,15	2,5	0,4
GRC26-SS	26,2	31,5	M3	1,7	14.000	2	350	84	0,2	2,5	0,4
GRC32-SS	31,8	39	M4	3,5	12.000	3,8	840	160	0,2	2,5	0,4
GRC39-SS	39	56	M5	8	9.000	7,0	1.000	360	0,25	2,5	0,4
GRC49-SS	49	70	M6	13	7.000	15	1.400	740	0,25	2,5	0,5
GRC60-SS	60	88	M8	30	5.000	30	1.800	1.370	0,25	2,5	0,5

M= Screw size, T_A= Tightening torque, T_{KN}= Nominal torque, C_T= Torsional stiffness, g= Mass

Bore diameters

Size	d (mm)														
	3	4	5	6	8	10	12	14	15	16	18	19	20	24	25
GRC12-SS	•	•	•												
GRC16-SS	•	•	•	•											
GRC19-SS		•	•	•	•										
GRC22-SS			•	•	•	•									
GRC26-SS			•	•	•	•	•								
GRC32-SS					•	•	•	•	•						
GRC39-SS						•	•	•	•	•	•				
GRC49-SS							•	•	•	•	•	•	•		
GRC60-SS									•	•	•	•	•	•	•

Ordering example:
GRC26-SS ø10 ø12
Sliflex Size 26, Bore 10 and 12

The various technical parameters play a decisive role in the selection of the Sliflex. Parameters such as maximum speeds, occurring shaft misalignments and drive torque should be taken into account. The required coupling size can be roughly calculated using the following formula:

Serie GRC

$$T_{KN} > T_A \times C_S$$

The nominal torque T_{KN} of the selected coupling size should be greater than the drive torque T_A in Nm (derived from the manufacturer‘s specification of the drive motor) multiplied by the operating factors of the application.

For servo applications, it should be noted that the acceleration torque of these servomotors is many times higher than their rated torques. The design is based on the highest peak torque to be transmitted regularly on the drive side (e.g. the maximum acceleration torque in Nm for servomotors)

Shock factor C_S

	Continuous motion sequence	Dynamic motion sequence with frequent start-stop	Dynamic motion sequence with frequent reversing operation
Factor C_S	1,0	2,0	4,0

Please note the maximum permissible bore diameter and the corresponding displacement capacity for the selected coupling size. These can be found in the table for the corresponding coupling size.

General technical specifications

Material
GRC-A: High-strength aluminium alloy 3.4365 AlZn5.5MgCu or EN AW-2024-AlCu4Mg1
additionally anodised to protect against corrosion
Clamping screws: EN ISO 4762/DIN 912 12.9
GRC-SS: Stainless steel 1.4305 X10CrNiS18-9
Clamping screws: DIN 912 A2

Temperature range
Aluminium version: -30°C bis +100°C
Stainless steel version: -30°C bis +140°C

„briefly and concisely ... explained“

OUR PICTOGRAMS

- High temperature resistance
- Vibration damping
- Axially pluggable
- High radial misalignment
- Backlash-free
- Torsionally rigid
- High angular misalignment
- High speeds
- Electrically insulating
- Corrosion resistant