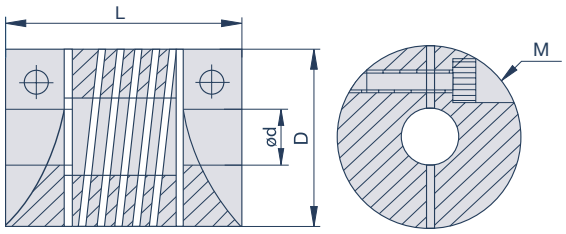
Heliflex GWC | Stainless Steel

Clamping 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	Misalignment angular °	radial mm	axial mm
GWC14-SS	14	22	M2,5	0,5	6.000	0,5	7,6	16,8	3	0,15	0,15
GWC16-SS	16	24	M2,5	0,5	6.000	0,6	9,2	27,2	3	0,15	0,15
GWC20-SS	20	28	M3	1,7	6.000	1,4	20	59	5	0,2	0,4
GWC25-SS	25	32	M3	1,7	6.000	2,5	27	98	5	0,2	0,4
GWC32-SS	32	40	M4	3,5	6.000	7	32	151	5	0,25	0,45

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

Bore diameters

Modell	d (mm)										
	2	3	4	5	6	8	9,525	10	11	12	12,7
GWC14-SS	•	•	•								
GWC16-SS		•	•	•	•						
GWC20-SS			•	•	•	•					
GWC25-SS				•	•	•	•	•	•		
GWC32-SS						•	•	•	•	•	•

Ordering example:
GWC14-SS ø3 ø3
Heliflex Size 14, Bore 3 and 3

The various technical parameters play a decisive role in the selection of the Heliflex. 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.

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

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

Calculation of the impact factor c_I

Continuous motion sequence: c_I 1,0

Dynamic motion sequence with frequent start-stop: c_I 1,5-2

The Heliflex is not recommended for applications with heavy impact operation and/or frequent reversing operation. For this type of application, we recommend the Beamflex or Diskflex, for example.

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
GWC-A/GWS-A: Aluminium alloy
GWC-SS/GWS-SS: Stainless Steel 1.4301 / X5CrNi18-10
Clamping screws: EN ISO 4762/DIN 912 A2
Set screws: EN ISO 4029/DIN 916 A2

Temperature range
Aluminium version: -40°C bis +110°C
Stainless steel version: -40°C bis +180°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