



WITH STAINLESS STEEL CLAMPING HUB

15 - 500 Nm

ABOUT

FEATURES

- ▶ for high temperatures and aggressive media
- ▶ compact design
- ▶ easy to mount

MATERIAL

- ▶ **Bellows:** high grade stainless steel
- ▶ **Hubs:** high grade stainless steel

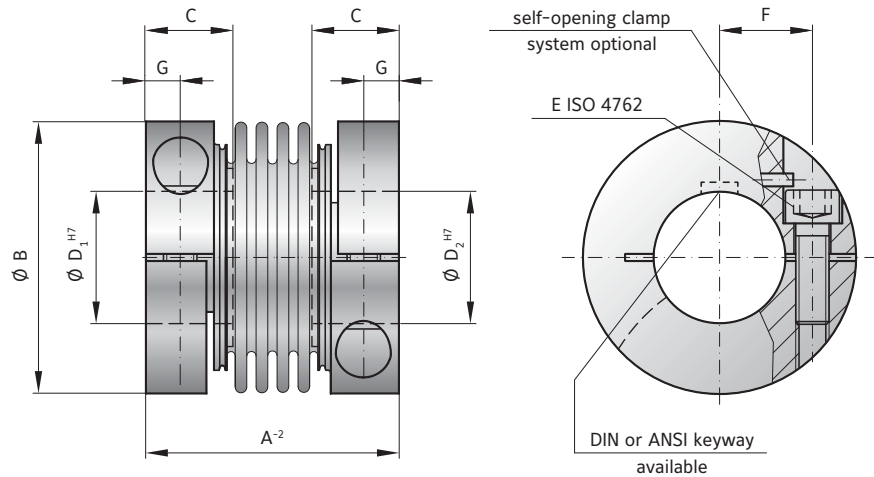
- ▶ **Screws:** Grade 12.9 Geomet coated (alternate materials on request)

DESIGN

Two clamping hubs concentrically mounted to flexible bellows. Brief overloads of up to 1.5x the rated torque are acceptable. From -40° to +300°C operating temperature.



Optional: self-opening clamp system to open the bore during installation and removal by backing out the clamping screw.



BELLOWS COUPLINGS BK

MODEL BKS

SIZE			15	30	60	150	300	500
Rated torque (Nm)	T_{KN}		15	30	60	150	300	500
Overall length (mm)	A^{-2}		45	52	66	76	89	95
Outside diameter (mm)	B		49	56	66	82	110	123
Fit length (mm)	C		17	20	24	30	34	35
Inside diameter* possible from \emptyset to \emptyset H7 (mm)	D_1/D_2		12-28	14-32	16-35	19-42	24-60	32-75
Fastening screw ISO 4762			M5	M6	M8	M10	M12	M12
Tightening torque of the fastening screw (Nm)	E		8	15	40	75	120	125
Distance between centerlines (mm)	F		17.5	20	23	27	39	45
Distance (mm)	G		6	7.5	9.5	11	13	13
Moment of inertia (10^{-3} kgm ²)	$J_{ges.}$		0.1	0.2	0.53	1.5	5.5	8.1
Approximate weight (kg)			0.27	0.42	0.78	1.5	2.9	3.5
Torsional stiffness (10^3 Nm/rad)	C_T		23	31	72	141	157	290
Axial \pm (mm)		Max. values	1	1	1.5	2	2	2.5
Lateral \pm (mm)			0.2	0.2	0.2	0.2	0.2	0.2
Angular \pm (degree)			1	1	1	1	1	1
Axial spring stiffness (N/mm)	C_a		30	50	67	77	112	72
Lateral spring stiffness (N/mm)	C_l		315	366	679	960	2940	2200
Speed max. with G = 2.5 balancing (min ⁻¹)			60,000	50,500	50,000	40,500	40,000	30,000

* Smaller bore diameter available at reduced torque capacity

ORDERING EXAMPLE	BKS	15	20	19.05	XX
Model	●				
Size		●			
Bore D1 H7			●		
Bore D2 H7				●	
Special designation only (e.g. special bore tolerance).					
For custom features place an XX at the end of the part number and describe the special requirements (e.g. BKS / 15 / 20 / 19.05 / XX; XX=finely balanced for 25,000 rpm)					