

BKS

Welded with clamping hub

15 – 500 Nm

Features

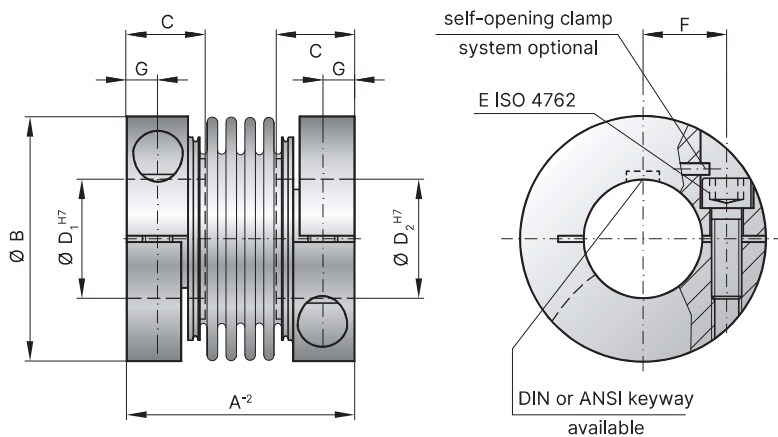
- For high temperatures and aggressive media
- Compact design
- Welded version

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°C to +300°C operating temperature.



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

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 $\varnothing$ to $\varnothing$ H7	(mm)	D_1/D_2	12-28	14-32	14-35	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_r	315	366	679	960	2,940	2,200
Speed max. with balancing	(min ⁻¹)		60,000	50,500	50,000	40,500	40,000	30,000

* Smaller bore diameter available at reduced torque capacity