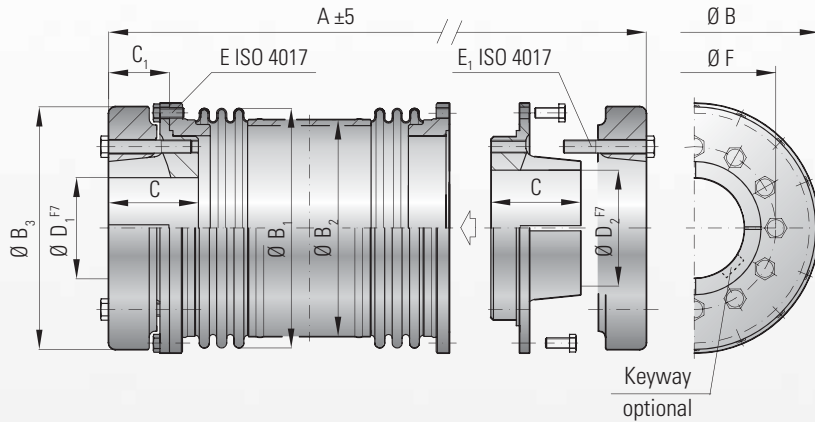




MODEL BX 6

BACKLASH-FREE, TORSIONALLY STIFF METAL BELLOWS COUPLINGS

with removable conical clamping hubs



Ordering example

BX 6 / 50 / 120 / 120 / XX

Model
Series / KNm
Bore Ø D1 F7
Bore Ø D2 F7
Non standard e.g. stainless steel

Features:

- for high torque applications
- compact, simple design
- easy mounting and dismounting
- backlash free and torsionally rigid
- various overall lengths available
- high misalignment compensation

Material:

Bellows made from highly flexible, high grade stainless steel; hubs made from steel

Design:

With flange and removable conical clamping ring assemblies on both ends. The fastening screws for mounting the flange double as the removal jack screws for the conical clamping rings; 2x bellows with intermediate tube (Series 10 without intermediate tube); welded connection between hubs and bellows

Fit tolerance:

Overall clearance between hub and shaft 0.03-0.08 mm

Temperature range:

-40 to +300° C (-40 to +572° F); reduced ratings at higher temperatures

Non standard applications:

Custom designs with various tolerances, keyways, materials, dimensions, etc. available upon request

Model BX 6		Series				
		10	25	50	75	100
Rated torque (KNm)	T_{KN}	10	25	50	75	100
Maximum torque (KNm)	T_{Kmax}	15	38	75	113	150
Overall length (mm)	$A_{±5}$	235	520	620	820	940
Outside diameter of flange (mm)	B	310	336	398	449	545
Outside diameter of bellows ±2 (mm)	B_1	300	323	370	412	520
Outside diameter of tube (mm)	B_2	-	273	324	360	460
Diameter of clamping ring (mm)	B_3	300	310	380	420	530
Fit length (mm)	C	90	110	140	170	200
Distance (mm)	C_1	55	74	99	130	150
Inside diameter possible to Ø F7 (mm)	D_1/D_2	70 - 170	80 - 180	100 - 200	130 - 230	150 - 280
Fastening screw ISO 4017 mounting flange for (mm)	E	20 x M12	24 x M16	24 x M20	20 x M24	24 x M24
Tightening torque (Nm)		120	300	580	1000	1000
Fastening screw ISO 4017 conical clamping ring for (mm)	E_1	8 x M16	12 x M16	12 x M20	16 x M20	12 x M24
Tightening torque (Nm)		200	250	300	350	600
Bolt circle diameter ±0.4 (mm)	F	210	220	250	290	360
Moment of inertia (10^{-3} kgm ²)	J_{gas}	828	1535	3799	8277	24876
Approximate weight (kg)		60	93	168	280	550
Axial ± (mm)		3	5	6	7	8
Lateral ± (mm)		0,4	2,2	2,5	3	3,5
Angular ± (degree)		1,5	1	1	1	1
Torsional stiffness bellows (10^3 Nm/rad)		20,000	21,120	36,600	57,300	81,800
Torsional stiffness coupling (10^3 Nm/rad)		20,000	9,000	15,500	23,000	35,000