

Optional:

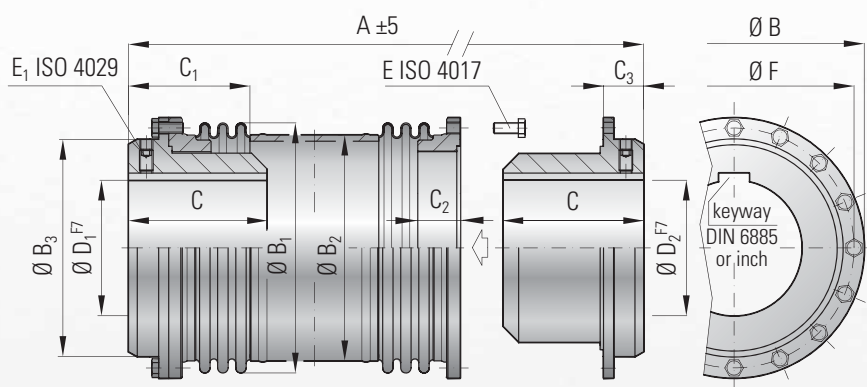


MODEL BX 4

BACKLASH-FREE, TORSIONALLY STIFF METAL BELLOWS COUPLINGS



with keyway connection



Ordering example

BX 4 / 50 / 120 / 200 / 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
- 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 removable coupling hubs with keyway on both sides; 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)

Non standard applications:

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

Model BX 4			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)	$A_{\pm 5}$	210	480	590	760	840
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
Hub diameter	(mm)	B_3	255	260	310	350	440
Fit length	(mm)	C	95	130	200	240	280
Length ± 3	(mm)	C_1	—	170	200	257	260
Hub length	(mm)	C_2	24	81	80	103	120
Distance	(mm)	C_3	42	50	70	90	97
Inside diameter possible from Ø to Ø F7	(mm)	D_1/D_2	50 - 180	60 - 170	80 - 200	100 - 230	120 - 280
Fastening screw ISO 4017 / Tightening torque	(Nm)	E	20xM12 / 120	24xM16 / 300	24xM20 / 580	20xM24 / 1000	24xM24 / 1000
Fastening screw ISO 4029 / Tightening torque	(Nm)	E_1	M12 / 100	M16 / 220	M20 / 450	M24 / 800	M24 / 800
Bolt circle diameter ± 0.4	(mm)	F	290	304	361	404	500
Moment of inertia	(10 ⁻³ kgm ²)	$J_{ges.}$	492	1272	3270	6754	19350
Approximate weight	(kg)		44.7	85	164	260	477
Axial  ± (mm)		Max. value	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 coupling (10 ³ Nm/rad)			20,000	9,000	15,500	23,000	35,000