

**BX1**

# WITH FLANGE MOUNTING

10,000 - 100,000 Nm



## PROPERTIES

### FEATURES

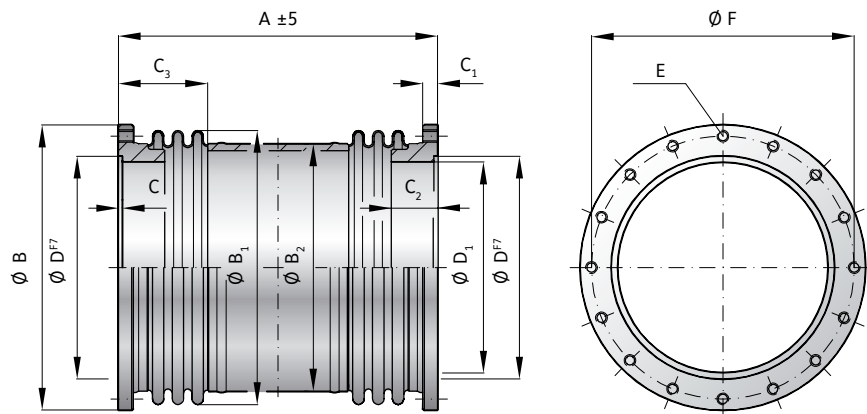
- ▶ compact, simple design
- ▶ high misalignment compensation
- ▶ integral support system (size 25 and up)

### MATERIAL

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

### DESIGN

Both ends with flanged hubs  
Spacer between bellows  
(optional variable length)  
(size 10 without spacer)  
welded bellows-hub connection



## MODEL BX1 | SIZE 10 - 100

SIZE			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		125	380	450	580	640
Outside diameter of flange (mm)	B		310	336	398	449	545
Outside diameter of bellows ±2 (mm)	B <sub>1</sub>		300	323	370	412w	520
Outside diameter of tube (mm)	B <sub>2</sub>		-	273	324	360	460
Fit length +0.5 (mm)	C ±0.5		4	5	6	10	15
Thread depth (mm)	C <sub>1</sub>		15	25	30	36	36
Hub length (mm)	C <sub>2</sub>		24	81	80	103	120
Bellows body length +3 (mm)	C <sub>3</sub>		-	121	133	165	165
Centering diameter F 7 (mm)	D		265	260	310	350	440
Hub diameter +0.3 (mm)	D <sub>1</sub>		250	240	290	320	390
Fastening threads*			20x M12	24x M16	24x M20	20x M24	24x M24
Tightening torque of the fastening screws (screw grade 10.9) (Nm)	E		120	300	580	1000	1000
Bolt circle diameter ±0.4 (mm)	F		290	304	361	404	500
Moment of inertia (10 <sup>-3</sup> kgm <sup>2</sup> )	J <sub>ges.</sub>		101	548	1185	2725	7900
Approximate weight (kg)			8.3	27.8	43.7	80	151
Axial ± (mm)			3	5	6	7	8
Lateral ± (mm)	Max. value		0.4	2.2	2.5	3	3.5
Angular ± (degree)			1.5	1	1	1	1
Torsional stiffness coupling (10 <sup>3</sup> Nm/rad)			20,000	9,000	15,500	23,000	35,000
Axial spring stiffness bellows (N/mm)			985	3000	4300	3900	2800
Lateral spring stiffness bellows (KN/mm)			21	133	207	175	219

\*drilling pattern between hub 1 and hub 2 not aligned as standard

ORDERING EXAMPLE	BX1	50	XX
Model	●		Special designation only (e.g. stainless steel hubs)
Size / torque rating (KNm)		●	

For custom features place an XX at the end of the part number and describe the special requirements (e.g. BX1 / 50 / XX)

BELLOWS COUPLING  
BX