

BX1

WITH FLANGE MOUNTING

10,000 – 100,000 Nm

PROPERTIES

FEATURES

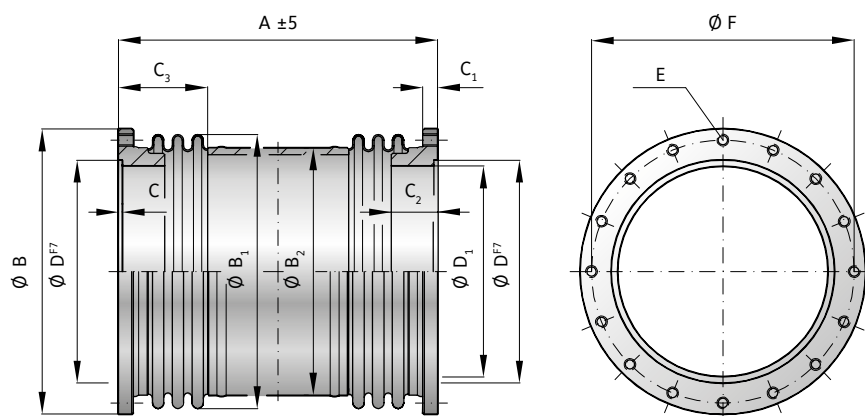
- compact, simple design
- high misalignment compensation
- integral support system (size 25 and up)

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 ₁	300	323	370	412w	520
Outside diameter of tube	(mm)	B ₂	–	273	324	360	460
Fit length +0.5	(mm)	C ±0.5	4	5	6	10	15
Thread depth	(mm)	C ₁	15	25	30	36	36
Hub length	(mm)	C ₂	24	81	80	103	120
Bellows body length +3	(mm)	C ₃	–	121	133	165	165
Centering diameter F 7	(mm)	D	265	260	310	350	440
Hub diameter +0.3	(mm)	D ₁	250	240	285	317	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 ⁻³ kgm ²)	J _{ges.}	101	548	1185	2725	7900
Approximate weight	(kg)		8.3	27.8	43.7	80	151
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
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)			