BX1
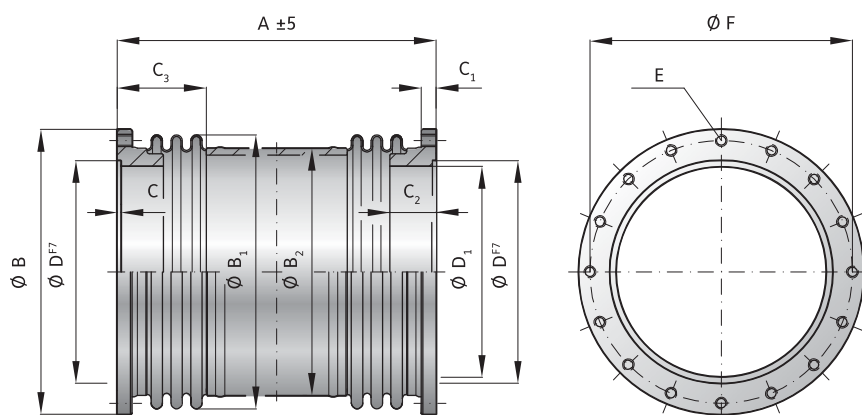
WITH FLANGE MOUNTING
10 – 100 KNm

ABOUT

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	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)	$A^{\pm5}$	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	412	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	290	320	390
Fastening threads*		E	20x M12	24x M16	24x M20	20x M24	24x M24
Tightening torque of the fastening screws (screw grade 10.9)	(Nm)		120	300	580	1000	1000
Bolt circle diameter ±0.4	(mm)	F	290	304	361	404	500
Moment of inertia	(10^{-3} kgm²)	$J_{ges.}$	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; XX = 700 mm overall length)			