

BX4

WITH SIMPLE KEYWAY MOUNTING

10,000 – 100,000 Nm

PROPERTIES

FEATURES

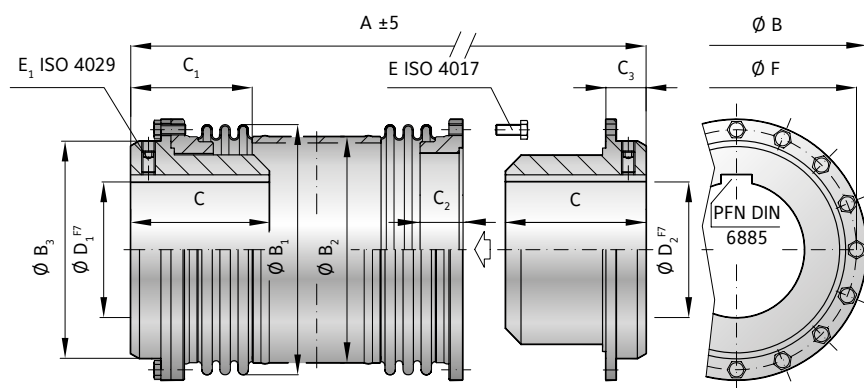
- compact, simple design
- high misalignment compensation
- integral support system (size 25 and up)

MATERIAL

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

DESIGN

Both sides with removable coupling hubs, including keyway (splines optional)
 Spacer between bellows (optional variable length)
 (size 10 without spacer)
 welded bellows-hub connection



MODEL BX4 | 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)	$A_{\pm 5}$	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	49	70	90	100
Inside diameter possible from $\emptyset$ to $\emptyset F7$	(mm)	D_1/D_2	50 – 170	60 – 170	80 – 200	100 – 230	120 – 280
Fastening screw ISO 4017 / Tightening torque	(Nm)	E	20 x M12 / 120	24 x M16 / 300	24 x M20 / 580	20 x M24 / 1000	24 x M24 / 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	$\pm$ (mm)	Max. value	3	5	6	7	8
Lateral	$\pm$ (mm)		0.4	2.2	2.5	3	3.5
Angular	$\pm$ (degree)		1.5	1	1	1	1
Torsional stiffness coupling (10^3 Nm/rad)			20,000	9,000	15,500	23,000	35,000

MAXIMUM TRANSMITTABLE TORQUE OF KEYWAY CONNECTION

Data is in KNm. These values relate to metric DIN 6885 keyway dimensions with 100% contact through the hub.

Serie	Ø 60	Ø 80	Ø 100	Ø 120	Ø 140	Ø 160	Ø 170	Ø 180	Ø 200	Ø 220	Ø 230	Ø 240	Ø 260	Ø 280
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x
25	7	12	18	26	34	44	46	x	x	x	x	x	x	x
50	x	19	28	40	52	67	71	84	94	x	x	x	x	x
75	x	x	34	47	62	81	85	101	112	136	142	x	x	x
100	x	x	x	55	74	94	100	118	131	159	166	189	205	220