

BX4

WITH SIMPLE KEYWAY MOUNTING

10 - 100 KNm



ABOUT

FEATURES

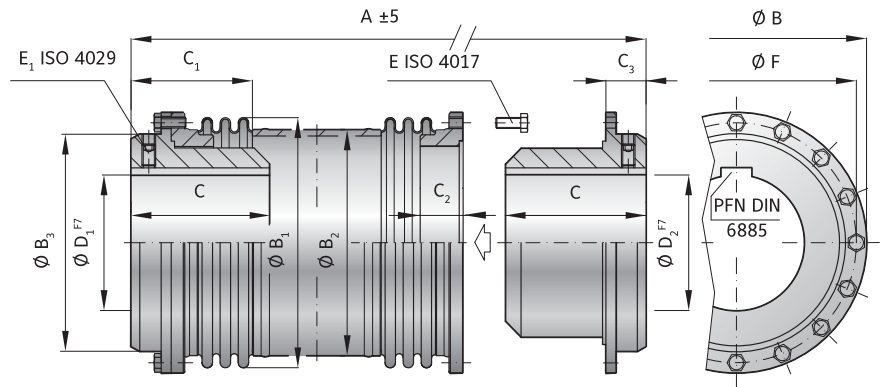
- ▶ compact, simple design
- ▶ high misalignment compensation
- ▶ integral support system (size 25 and up)

MATERIAL

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

DESIGN

Both 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	25	50	75	100
Rated torque	(KNm)	T_{KN}	10	25	50	75	100
Maximum torque	(KNm)	T_{rmax}	15	38	75	113	150
Overall length	(mm)	$A_{±5}$	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	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

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.

SIZE	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