

# Metal bellows couplings

clamping with grub screw



### Material, surface finish:

Hub in aluminium, natural finish. Bellows in stainless steel.

### Sample order:

nIm 23002-0004,

D1 = 3

D2 = 3

(The hubs are supplied predrilled).

### Note:

The clamping of the hub by means of a grub screw is a cost-effective alternative for the Metal Bellows Couplings with radial clamping hub (23000). Short assembly times and an easy installation due to the clamping hub with grub screws. Also, if the installation space is limited. The necessary tightening torque of the grub screw must be noted. For easy disassembling we recommend to fit out the shafts with a face surface.

### Temperature range:

-20 °C up to +150 °C.

### Assembly:

The seat shaft / hub is to be selected as transitional seat. Admissible seat clearance shaft / hub: min. 0.01 mm; max. 0.04 mm.

E.g. shaft: Ø 5 k6

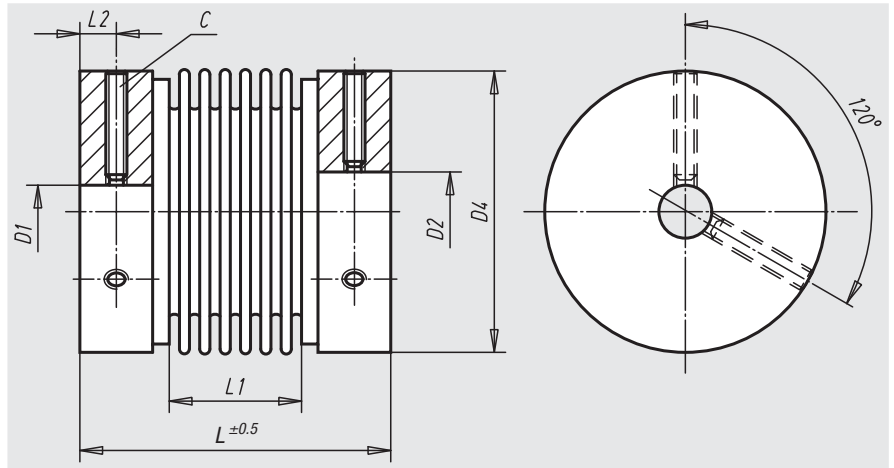
borehole: Ø 5 G7.

Boreholes which are smaller than D min. are possible; but an optimal transfer of the nominal torque of the coupling can not be guaranteed in this case.

As the metal bellows consist of thin stainless steel sheeting, special care during fitting and disassembly is necessary. Damages to the bellows can render the coupling useless.

### On request:

Desired hub holes D1 and D2 separately with tolerance class or tolerance zone.



Order No.	Size	Nominal torque Nm	Moment of inertia (10 <sup>-3</sup> kgm <sup>2</sup> )	Torsion resistance (10 <sup>-3</sup> Nm/arcmin)	Max. axial shaft displacement ±	Max. lateral shaft displacement	Axial spring stiffness N/mm	Lateral spring stiffness N/mm	Approx. weight g
23002-0004	0,4	0,4	0,00019	50	0,35	0,1	10	15	8
23002-0005	0,9	0,9	0,00019	90	0,3	0,1	21	26	10
23002-0020	2	2	0,0029	230	0,5	0,1	15	15	32
23002-0040	4	4	0,0032	460	0,4	0,1	35	65	37
23002-0060	6	6	0,016	1100	0,6	0,25	45	60	85
23002-0080	8	9	0,028	1300	0,8	0,25	16	24	120

Order No.	Tightening torque of screws (Nm)	D1/D2 predrilled	D1/D2 min.	D1/D2 max.	D4	C (DIN 916)	L	L1	L2
23002-0004	1	3	3	8	16	M3	26	12	2,3
23002-0005	1	3	3	8	16	M3	27	13	2,3
23002-0020	4	5	5	15	25	M4	38	16	3,5
23002-0040	4	5	5	15	25	M4	39	17	3,5
23002-0060	8	6	6	20	35	M5	54	29	4,3
23002-0080	10	6	6	26	41	M6	54	26	5