

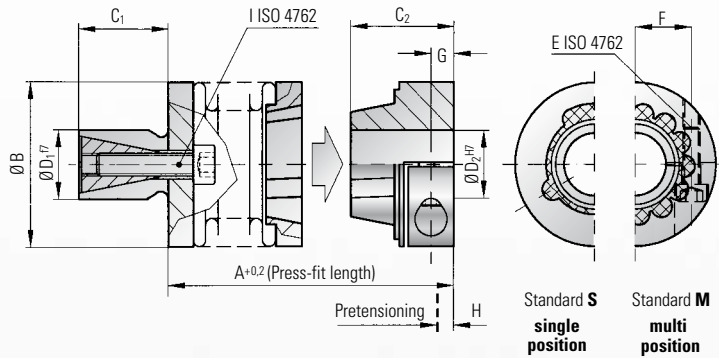


MODEL MK6

TECHNICAL SPECIFICATIONS



Press-fit precision metal bellows couplings



Properties:

- electrically insulated
- self-adjusting
- no wear
- easy mounting and dismantling
- backlash-free and torsionally rigid
- low moment of inertia
- compensates for 3-axis of misalignment

Material:

Bellows made of highly flexible high-grade stainless steel, clamping hub aluminium. Expanding hub and cone (steel)

Design:

On one side an expanding shaft with tapered clamping element. On one side a clamping hub with a backlash-free, blind mate press-fit connection (glass-fiber reinforced plastic)

Temperature range:

-30° to +120° C (3,6 F to 270 F),

Speed:

Up to 10,000 rpm, in excess of 10,000 rpm with balanced version

Service life:

These couplings have an infinite life, and are maintenance-free if the technical limits are not exceeded.

Fit tolerance:

On the hub/shaft connection 0.01 to 0.05 mm.

Ordering example

MK6/20 / 28 / 12 / 12 / XX

Model
Series/Nm
Overall length (mm)
Shaft Ø D1 f7
Bore Ø D2 H7
non standart e.g. Option M

Model MK 6		Series											
		5			15		20			45		100	
Rated torque (Nm)	T_{KN}	0.5			1.5		2			4.5		10	
Length without pretensioning (mm)	A	21	24	27	27	32	28	34	38	38	46	45	55
Outer diameter (mm)	B	15			19		25			32		40	
Shaft length (mm)	C_1	10			12		12			15		20	
Standard shaft Ø f7 (mm)	D_1	8			10		12			14		16	
Fit length (mm)	C_2	12			14		16			20		21.5	
Special bores from Ø to Ø (mm)	D_2	3-6.35			3.8		3-12.7			5-16		5-20	
Standard bore H7 (mm)	D_2	6			6		6/10			10		10	
ISO 4762 screws		M2			M2.5		M3			M4		M4	
Tightening torque of the assembly screws (Nm)	E	0.43			0.85		2.3			4		4.5	
Distance between centers (mm)	F	4.5			6		8			10		15	
Distance (mm)	G	3			3.5		4			5		5	
Pretensioning approx. (mm)	H	0.4			0.5		0.5			0.7		1	
ISO 4762 screws		M3			M4		M4			M5		M6	
Tightening torque of the assembly screws (Nm)	I	1.5			3		4			6.5		11	
Axial recovery force (N)		5	3	2	4	3	3	4	3	15	10	25	30
Mass moment of inertia (gcm^2)	J_{gBS}	3.0	3.2	3.5	9.0	10	28	30	33	110	120	220	230
Torsional stiffness (Nm/rad)	C_T	280	210	170	750	700	1200	1300	1200	7000	5000	9050	8800
lateral (mm)	Max. values	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
angular (degrees)		1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2