Metal Bellows Couplings I Series KR - Ex

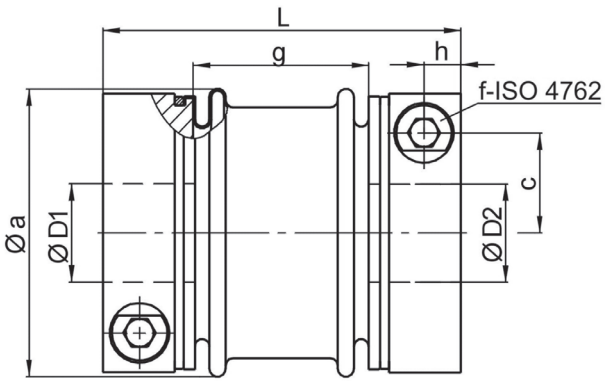
• straight bellows • simple installation with lateral EASY-clamping hub
• low restoring forces • high torsional stiffness • long design

technical data:

KR - Ex size	T_N [Nm]	moment of inertia [10^{-3}kgm^2]	torsional stiffness [Nm/arcmin]	max. shaft misalignment [mm] axial±	lateral	axial spring rate [N/mm]	lateral spring rate [N/mm]	tightening torque screws TA [Nm] (*)	RPM n_{max} [1/min]
25	12,5	0,12	9	0,21	0,14	150	150	14 (8)	20000
50	25	0,12	10	0,21	0,14	160	170	14 (8)	20000
65	32,5	0,25	12	0,21	0,21	90	80	30 (15)	17000
100	50	0,7	23	0,35	0,28	100	95	50 (20)	14000
200	100	0,84	30	0,21	0,21	220	120	50 (20)	14000
300	150	2	53	0,28	0,21	210	160	90 (25)	11000
450	225	2,15	80	0,28	0,21	300	260	90 (25)	11000
550	275	4,7	98	0,35	0,35	300	360	140 (25)	9000
1500	750	13	280	0,42	0,35	520	490	240 (30)	7000

temperature range: -20°C bis +100°C
material: bellows: 1.4571 | hubs: 3.1325 | screws: 1.7220 with zinc flake coating | wire: CW508L

note:
The couplings are supplied with H7 finished bores as standard.
G6 is recommended for the shaft fit.



dimensions [mm]: length dimensions according to DIN ISO 2768 cH

KR - Ex	Øa [mm]	c [mm]	f FK 12.9	g [mm]	h [mm]	L [mm]	L* [mm]	mass ~ [kg]	ØD1/2 min	ØD1/2 max
25	56	19	M6	33	8	73	84	0,3	10,5	32
50	56	19	M6	33	8	73	84	0,3	13	32
65	66	22	M8	41	9	85	95	0,4	17	35
100	82	28,5	M10	50	11,5	102	114	0,75	21	43
200	82	28,5	M10	56	11,5	108	120	0,8	23,5	43
300	101	35	M12	65	13	123	129	1,3	32,5	55
450	101	35	M12	65	13	123	129	1,4	45,5	55
550	122	42	M14	72	16	140	-	2,2	42	68
1500	157	54	M16	96	20	186	-	4,4	65	85

note: L* ≙ alternative installation length with larger clamping hub width

order example: KR - Ex 100 - D1 = 35 H7 D2 = 35 H7