Metal Bellows Coupling I Series KG-VA

- all-stainless steel version up to 350°C
- wear and maintenance free
- very short and variable design
- torsionally stiff
- simple installation with clamping hub

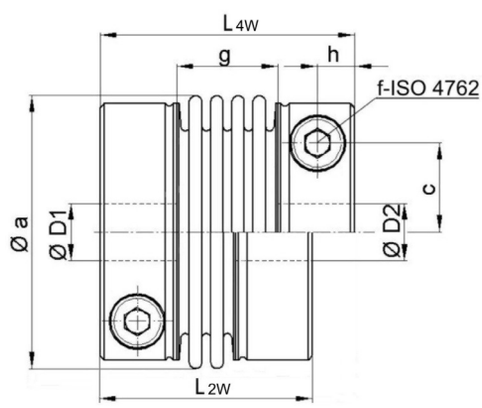
stainless steel

technical data:

KG-VA size	T_N [Nm]	moment of inertia [10^{-3}kgm^2]	torsional stiffness [Nm/arcmin]			max. shaft misalignment [mm] axial±			max. shaft misalignment [mm] lateral			axiale spring rate [N/mm]			lateral spring rate [N/mm]			nmax. [upm]
			2W	4W	6W	2W	4W	6W	2W	4W	6W	2W	4W	6W	2W	4W	6W	
30	30	0,18	16	9	6	0,3	0,6	0,8	0,1	0,2	0,3	130	70	50	2500	450	190	23000
60	60	0,44	26	14	9	0,3	0,6	0,8	0,1	0,2	0,3	120	70	50	3500	600	260	20000
100	100	0,74	32	20	13	0,3	0,6	1	0,1	0,2	0,3	210	110	80	7000	1200	400	18000
180	180	1,22	50	28	17	0,4	0,7	1	0,1	0,2	0,3	170	95	70	5000	1000	470	16000
280	280	2,6	93	52	47	0,4	0,8	1	0,1	0,2	0,3	170	90	95	7000	1300	500	13000
500	500	6,0	190	106	68	0,4	0,8	1	0,1	0,2	0,3	260	140	100	15000	2800	980	11000
1000	1000	24	400	225	170	0,4	0,7	1	0,1	0,2	0,3	310	160	120	13000	2100	920	8500

Sizes for smaller nominal torque see miniature couplings series MKG-VA
temperature range: -40°C up to +350°C

material:
bellows: stainless steel 1.4571 / A4
hubs: 1.4301 / A2
screws: ISO 4762
stainless steel / A4-80
optional: ISO 4762 / 12.9



note: connection between bellows and hub by plasma welding
Three standard variants with 6-corrugated metal bellows 6W, 4-corrugated metal bellows 4W or 2-corrugated metal bellows 2W

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

KG-VA	Ø a	c	f-TA	g			h	L			mass	Ø D1/2	Ø D1/2
				2W	4W	6W		2W	4W	6W	~[kg]	min	max
30	56	18,5	M6-9(14)	14	23	34	7,5	46	55	66	0,5	14(10)	28
60	66	22,5	M8-24(35)	16	24	35	9	53	61	72	0,9	16(11)	35
100	71	25	M8-24(35)	15	25	36	9	52	62	73	1,1	24(17)	40
180	82	27,5	M10-45(65)	18	28	41	11,5	63	73	86	1,5	28(20)	42
280	101	32	M12-80(115)	19	30	49	12,5	71	82	101	2,4	30(22)	50
500	122	39,5	M14-110(180)	22	37	52	15	82	97	112	3,8	42(28)	62
1000	157	54	M16-180(280)	23	40	56	17,5	94	111	127	8,5	54(42)	90

- clamping hubs generally with stainless steel screws A4-80 without EASY-pin - mind reduced actuation torques
- check transmission torques of hub-shaft connection for diameters below Dmin (further inquiry possible)
- optional: coated screws of property class 12.9 for higher clamping forces or torques see values in brackets
- alternative lenghts or hub versions available on request

order example:	KG-VA 180 / 4W	D1 = 32 G7	D2 = 35 G7	-	stainless steel screws
	KG-VA 30 / 2W	D1 = 16 G7	D2 = 19 G7	-	screws - 12.9 - coated