

# Miniature Metal Bellows Coupling I Series MKG-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

## technical data:

MKG-VA size	T <sub>N</sub> [Nm]	moment of inertia [kgmm <sup>2</sup> ]	torsional stiffness [Nm/arcmin]		max. shaft misalignment [mm]				axial spring rate [N/mm]		latiale Federsteife [N/mm]		mass approx. [g]
			2W	4W	axial ±	lateral	2W	4W	2W	4W	2W	4W	
1,5	1,5	1	-	0,3	-	0,3	-	0,1	-	34	-	140	26
4	4	4	1,3	0,9	0,2	0,3	0,05	0,1	135	75	2500	400	60
8	8	19	3,3	2,1	0,3	0,4	0,1	0,15	150	85	2300	400	140
15	15	44	6	3,4	0,3	0,4	0,1	0,15	100	55	2100	360	220

max. operational speed: 20.000 Upm

temperature range: -40°C up to +350°C

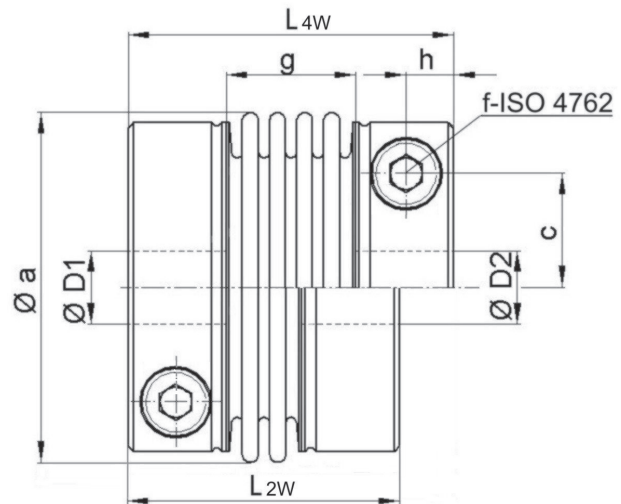
### material:

bellows: stainless steel 1.4571 / A4

hubs: 1.4301 / A2

screws: ISO 4762 stainless steel / A4-80

optional: ISO 4762 / 12.9



**notes:** connection between bellows and hub by plasma welding. Two standard versions with 4-corrugation bellows 4W or 2-corrugation bellows 2W. Size 1.5 with 5-corrugated metal bellows.

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

MKG-VA	Øa	c	f-TA	g		h	L		ØD1/2 min	ØD1/2 max
				2W	4W		2W	4W		
1,5	19	4,3	2xM2,5-1(1,5)	-	11	3,3	-	29	3	6,35
4	24	7,3	M3-1(2)	6	10	4,5	25	29	8(5)	11
8	34	10,5	M4-2,5(4)	11	16	5	33	38	9(7)	16
15	40	13	M5-5(8)	12	17	6	38	43	11(8)	20

- 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 lengths or hub versions available on request

order example: MKG-VA 4 / 4W      D1 = 8<sup>G7</sup>      D2 = 11<sup>G7</sup>      -      stainless steel screws  
 MKG-VA 15 / 2W      D1 = 13<sup>G7</sup>      D2 = 20<sup>G7</sup>      -      screws - 12.9 - coated