

# Metal Bellows Coupling I Series KGH-VA

- easy-to-install clamping hubs in half-shell design
- stainless steel version up to 350°C
- wear-free and maintenance-free
- variable lengths - three standard types with 2W/4W/6W metal bellows

stainless steel

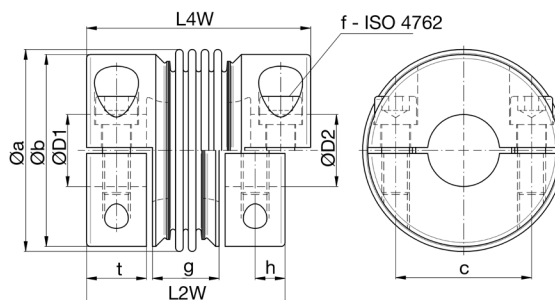
**technical data:**

KGH -VA size	T <sub>N</sub> [Nm]	Trägheitsmoment [10 <sup>-3</sup> kgm <sup>2</sup> ]	moment of inertia [10 <sup>-3</sup> kgm <sup>2</sup> ]			max. shaft misalignment [mm]						axial spring rate [N/mm]			lateral spring rate [N/mm]			n <sub>max</sub> [upm]
			2W	4W	6W	axial±			lateral			2W	4W	6W	2W	4W	6W	
10	10	0,03	3,3	2,1	1,3	0,2	0,3	0,5	0,1	0,15	0,25	150	85	60	2300	400	130	28000
50	50	0,3	16	9	6	0,3	0,6	0,8	0,1	0,2	0,3	130	70	50	2500	450	190	17000
120	120	1,2	32	20	13	0,3	0,6	1	0,1	0,2	0,3	210	110	80	7000	1200	400	13000
200	200	2,2	50	28	17	0,4	0,7	1	0,1	0,2	0,3	170	95	70	5000	1000	470	11000
350	350	4,9	93	52	47	0,4	0,8	1	0,1	0,2	0,3	170	90	95	7000	1300	500	9500
600	600	12	190	106	68	0,4	0,8	1	0,1	0,2	0,3	260	140	100	15000	2800	980	8000
1200	1200	39	400	225	170	0,4	0,7	1	0,1	0,2	0,3	310	160	120	13000	2100	920	6000

maximum 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 coated



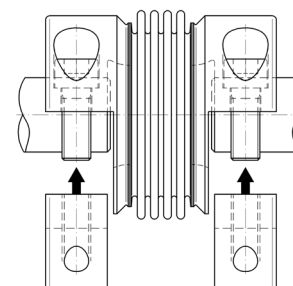
**note:** connection between bellows and hub by plasma welding

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

KGH -VA	Øa	Øb	c	f	g			h	L			t	mass ~ [kg]	ØD1/2	
					2W	4W	6W		2W	4W	6W			min	max
10	34	33	21	M5 - 5Nm	18	23	30	6,5	48	53	60	13	0,2	7	15
50	56	55	38	M8 - 24Nm	22	32	42	9	60	70	80	17	0,7	12	28
120	71	71	50	M10 - 45Nm	32	42	53	12	82	92	103	23	1,7	19	38
200	82	82	56	M12 - 80Nm	35	45	57	13	91	101	113	25,5	2,5	22	42
350	101	96	68	M14 - 110Nm	35	46	65	15	101	112	131	30	3,9	30	50
600	122	116	80	M16 - 180Nm	37,5	53,6	68	18	115,5	131,5	146	36	6,7	32	60
1200	157	152	110	M20 - 350Nm	43	59,5	76	20,5	129	145,5	162	40	12,6	48	85

**Mounting Instructions:**

The half-shell design enables simple, radial operation and a backlash-free, non-positive clamp connection. This is a significant advantage, especially with fixed shaft journals. Misalignments between the input and output shaft can thus be easily checked and corrected. To facilitate assembly, the fixed hub halves can be placed on the shaft journals and the loose half-shell pieces can be screwed on. In the event of service, the cumbersome dismantling of the drive and output units is no longer necessary.



**note:** the distance between input and output shaft must be greater than the coupling dimension „g“!

order example: KGH - VA 200 / 4W - D1 = 32<sup>G7</sup> D2 = 35<sup>G7</sup> - stainless steel screws  
KGH - VA 50 / 2W - D1 = 16<sup>G7</sup> D2 = 19<sup>G7</sup> - coated screws