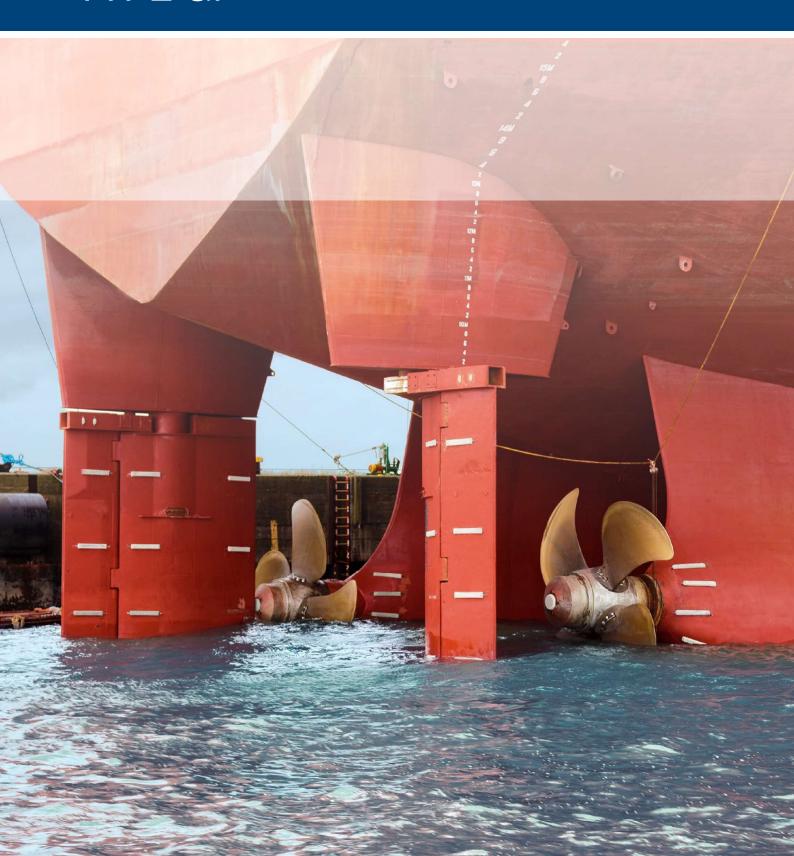
# STÜWE®

# CARDAN SHAFT CONNECTING FLANGE TYPE GF

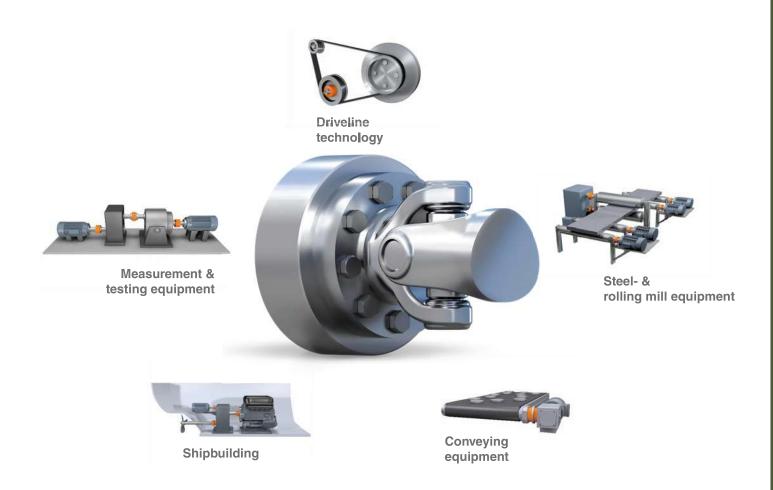


# **CARDAN SHAFT CONNECTING FLANGE** TYPE GF - GENERAL INFORMATION

#### **Application Description**

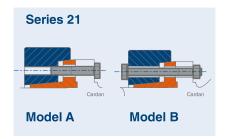
The type GF cardan shaft connecting flange is suited for the connection of standard cardan shafts to cylindrical shaft ends. It is characterized by optimal power transmission, easy installation and safe connection in cases of varying or jerky torques. Differentiation is made in the standard delivery programme between three series (21, 22, 23) each with two models so that an optimum variance exists for the achievement of your ideal connection.

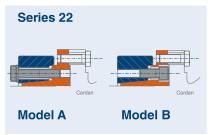
#### **Areas of Use**

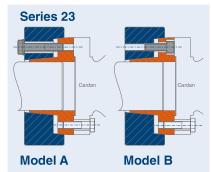




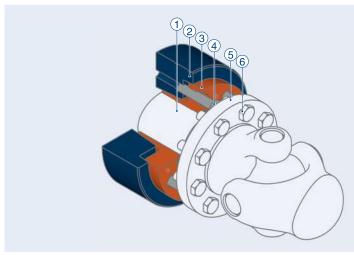
# **CARDAN SHAFT CONNECTING FLANGE** TYPE GF - SERIES







Description	Shaft diameter	Transmissible torque	Features
21	20 - 85 mm	0.12 - 9.52 kNm	Flange bolts are also used for tensioning
22	65 - 220 mm	7 - 229 kNm	Primarily for the connection of small shaft end diameters with large cardan shaft flanges
23	90 - 300 mm	13 - 507 kNm	Primarily for the connection of large shaft end diameters

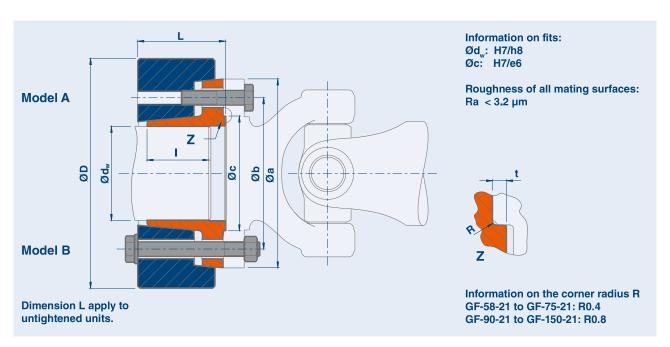


- 1 Shaft
- 2 Outer ring\*
- 3 Inner ring\*
- 4 Locking bolts\* including washer as necessary\*
- 5 Cardan Shaft
- 6 Flange bolts

\*Included with the delivery

All types may be protected against environmental influences by zinc and nickel coating or by a paint which has an appropriate corrosion protection class. We are able to achieve both desired colours which conform with the RAL colour range and products with lubricants in accordance with NSF H1. More detailed information on this may be found in this catalogue on page 151.

### STUWE Cardan Shaft Coupling Type GF – Series 21



#### Code

Maximum tightening torque of the locking bolts (see also "Installation and Removal Instructions")

#### Cardan Shaft Coupling Type GF - Series 21

Туре	<b>d</b> <sub>w</sub> * mm	<b>M</b> <sub>t</sub> kNm	<b>D</b> mm	<b>I</b> mm	<b>L</b> mm	<b>a</b> mm	<b>b</b> mm	<b>c</b> mm	<b>t</b> mm	Flange bolts**	<b>M</b> <sub>a</sub> Nm	kg
GF 58 - 21	20 24 28	0.12 0.17 0.24	60	18	22	58	47	30	1.3	4 x M5	9	0.5
GF 65 - 21	20 24 30	0.16 0.22 0.33	72	20	24	65	52	35	1.5	4 x M6	14.5	0.9
GF 75 - 21	25 30 40	0.29 0.41 0.66	80	22	27	75	62	42	1.8	6 x M6	14.5	1.2
GF 90 - 21	30 40 45	0.38 0.59 0.80	100	26	31	90	74.5	47	2	4 x M8	35	1.8
GF 100 - 21	40 50 55	0.80 1.17 1.54	115	26	32	100	84	57	2	6 x M8	35	2.4
GF 120 - 21	40 60 70	1.73 3.03 4.24	138	28	35	120	101.5	75	2	8 x M10	70	4.0
GF 150 - 21	50 70 85	4.00 6.53 9.52	170	39	47	150	130	90	2.5	8 x M12	120	7.0

Further sizes on request, subject to technical changes.

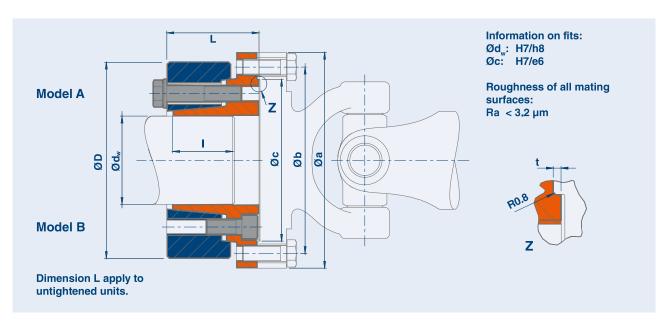
\*Hole diameter can be freely chosen within given limitations. \*\*Grade 12.9

Connecting dimensions can be adapted if desired.

Model B: M16 and upwards with washers: DINENISO7416

When ordering please state: (Type x Ød, x model), e.g. GF 120 - 21 x 60 x A Additional: holes, bolt size and bolt quantity if different from that given in the table

# STÜWE Cardan Shaft Coupling Type GF – Series 22



#### Code

 $\mathbf{M_t}$  Maximum transmissible torque of a connecting flange for  $P_{ax} = 0$ 

 $\mathbf{P}_{ax}$  Maximum transmissible axial load of a connecting flange for  $\mathbf{M}_{t} = \mathbf{0}$ 

Maximum tightening torque of the locking bolts (see also "Installation and Removal Instructions")

#### Cardan Shaft Coupling Type GF – Series 22

Туре	<b>d</b> <sub>w</sub> *	M <sub>t</sub> kNm	Locking bolts Size of	<b>M</b> <sub>a</sub> Nm	<b>D</b> mm	I mm	L mm	<b>a</b> mm	<b>b</b> mm	<b>c</b> mm	t mm	Flange bolts**	M <sub>a</sub> Nm	kg
GF 180 - 22	65 75 85	7 10 15	M14	160	170	40	71	180	155.5	110	2	8 x M14	160	10.5
GF 225 - 22	80 90 100	12 17 24	M16	240	197	51	86	225	196	140	4	8 x M16	240	17.7
GF 250 - 22	90 100 110	18 25 33	M16	240	215	54	91	250	218	140	4	8 x M18	340	22.5
GF 285 - 22	90 110 120	20 34 43	M20	470	230	62	102	285	245	175	5	8 x M20	470	31.6
GF 315 - 22	110 130 140	37 58 71	M24	820	290	73	122	315	280	175	5	8 x M22	640	52.4
GF 350 - 22	130 160 180	52 91 124	M24	820	320	83	137	350	310	220	7	10 x M22	640	71.2
GF 390 - 22	160 180 200	95 131 172	M24	820	370	104	154	390	345	250	7	10 x M24	820	100.0
GF 435 - 22	180 200 220	136 179 229	M27	1210	405	115	181	435	385	280	8	10 x M27	1210	132.6

Further sizes on request, subject to technical changes.

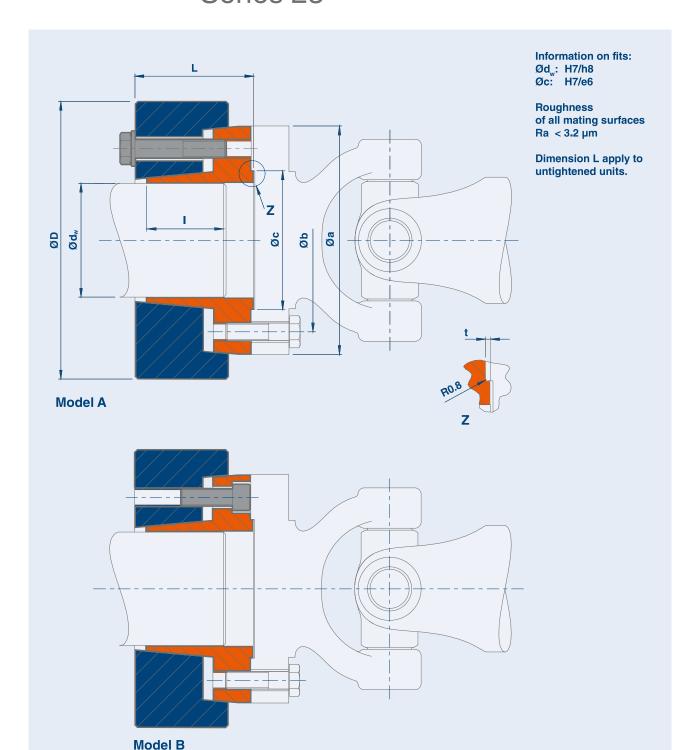
Connecting dimensions can be adapted if desired.

Model A: M16 and upwards with washers: DINENISO7416

**When ordering please state:** (Type x Ød<sub>w</sub> x model), e.g. GF 250 - 22 x 100 x A Additional: holes, bolt size and bolt quantity if different from that given in the table

<sup>\*</sup>Hole diameter can be freely chosen within given limitations. \*\*Grade 10.9

## STUWE Cardan Shaft Coupling Type GF – Series 23



#### Code

#### Cardan Shaft Coupling Type GF – Series 23

Туре	<b>d</b> <sub>w</sub> *	<b>M</b> <sub>t</sub> kNm	Locking bolts Size of	<b>M</b> a Nm	<b>D</b> mm	I mm	L mm	<b>a</b> mm	<b>b</b> mm	c mm	t mm	Flange bolts**	M <sub>a</sub> Nm	kg
GF 180 - 23	90 110 120	13 23 29	M14	160	215	42	76	180	155.5	110	2.5	8 x M14	160	14.8
GF 225 - 23	110 130 150	26 41 60	M16	240	263	50	87	225	196	140	4	8 x M16	240	24.9
GF 250 - 23	120 150 170	35 65 90	M16	240	300	61	99	250	218	140	5	8 x M18	340	35.6
GF 285 - 23	130 160 180	56 94 127	M20	470	320	74	117	285	245	175	5	8 x M20	470	49.1
GF 315 - 23	150 180 200	81 131 171	M24	820	370	88	138	315	280	175	5	8 x M22	640	80.2
GF 350 - 23	190 220 240	147 213 265	M24	820	430	103	155	350	310	220	7	10 x M22	640	113.0
GF 390 - 23	210 240 260	213 298 363	M24	820	460	123	177	390	345	250	7	10 x M24	820	146.5
GF 435 - 23	230 260 300	262 356 507	M27	1210	520	128	192	435	385	280	7	10 x M27	1210	206.0

Further sizes on request, subject to technical changes.

Connecting dimensions can be adapted if desired.

Model A: M16 and upwards with washers: DINENISO7416

When ordering please state: (Type x  $\emptyset d_w x$  model), e.g. GF 250 - 23 x 150 x A Additional: holes, bolt size and bolt quantity if different from that given in the table

You have not found what you are looking for in our comprehensive range of standard-products? We will be happy to promptly prepare any form of custom-made product and development innovation even using special materials such as 1.3974. Please feel free to contact us.

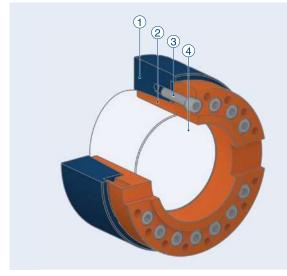
<sup>\*</sup>Hole diameter can be freely chosen within given limitations. \*\*Grade 10.9



# **CARDAN SHAFT CONNECTING FLANGE** TYPE GF - SPECIAL SOLUTIONS

# STUWE GF with Cross Keyway on the Facing Side

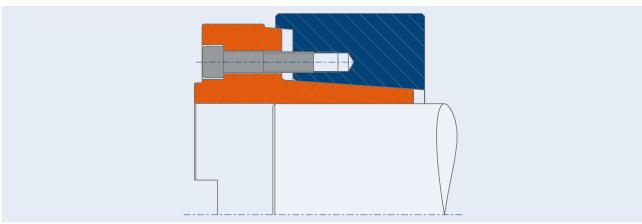
easy-to-install cardan shaft connecting flange



#### **Benefits**

- Transmission of high torques
- Simplification of positioning
- 1 Outer ring\*
- 2 Inner ring\*
- 3 Locking bolts\* including washer as necessary\*
- 4 Shaft

\*Included with the delivery



# STUWE GFHYD with Hirth gearing

Optimal positioning thanks to teeth on the face

