



ComInTec®

FLOHR
INDUSTRIETECHNIK GMBH

RIGID COUPLING

up to 1,420 Nm and 50 mm bore diameters



- Download catalog
- Download instruction sheets
- Download 3D and 2D cad model

GRI

GRI - rigid coupling: introduction



- Made in steel fully turned with phosphating treatment.
- Extremely rigid connection.
- High torque possible.
- Wear and maintenance free.
- Compact dimensions.
- Finished bore with ISO H8 tolerance and Ra=1.6 mm roughness.

ON REQUEST

- Different customized bore.
- Single split clamp hub with keyway (type B1) and two piece clamp hub with keyway (type C1) or without keyway (type C).
- Version in full stainless steel possible (GRI-SS).
- Anti-corrosive surface treatments for specific needs possible.



GRI rigid couplings have been designed and manufactured to connect two shafts of the same diameter but without allowing any relevant misalignment.

The coupling is manufactured in one element for the single split version. A two piece unit is available on request allowing simple and fast mounting and dismounting.

■ DIMENSIONING

The nominal torque of the coupling must be higher than the maximum torque of the motor's side, according to the generic formula on page 6. The indicated torque values have been calculated based on a friction coefficient for shaft-coupling of 0.15 μm .

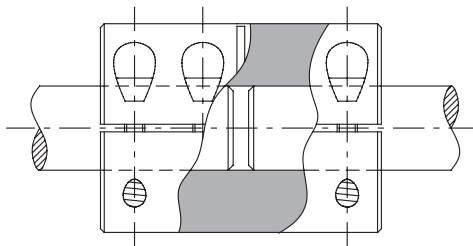
■ FITTING

It is advised to machine the connecting shafts with:

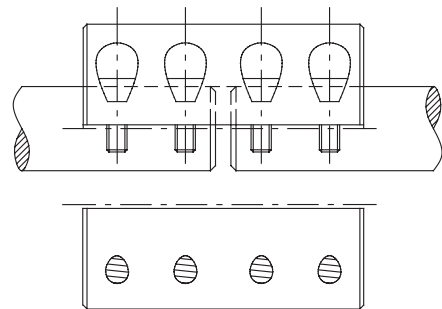
- Surface finish with Ra=1.6 μm .
- Nominal tolerance h6.
- Perfectly aligned shafts.

Tighten the locking screws in steel class 12.9 with a torque wrench, in accordance to the tightening torque indicated in the catalogue.

■ APPLICATION EXAMPLE

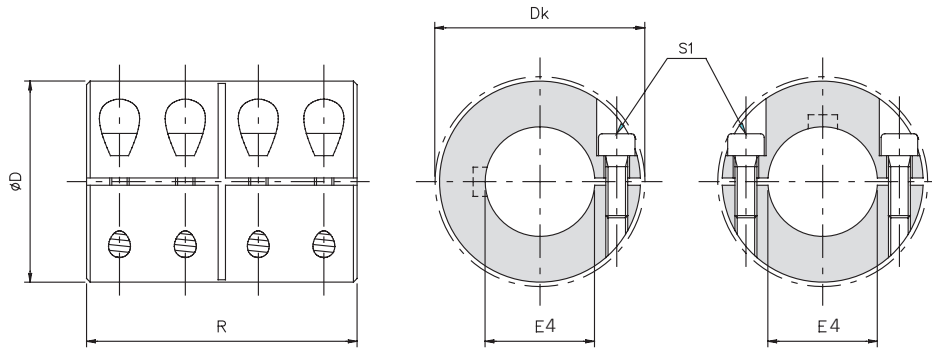


Locking type B



Locking type C

GRI - rigid coupling: technical data



FOR TECHNICAL DATA CONSULT THE DEDICATED BROCHURE

DIMENSIONS

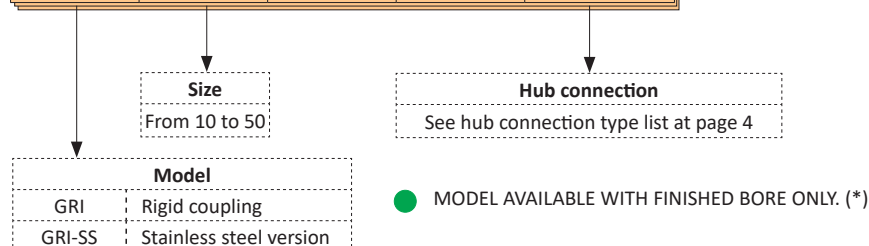
Size	D	Dk	E4 H8	R
10	32	33	10	45
15	40		15	50
20	45	47	20	65
25	50	52	25	70
30	55	57	30	75
35	65	70	35	85
40	70	74	40	90
45	80	83	45	100
50	90	95	50	110

TECHNICAL CHARACTERISTICS

Size	Max torque [Nm]		Weight [Kg]	Inertia [Kgm ²]	Max speed [Rpm]	Screws S1		
	Locking type B	Locking type C				Locking type B	Locking type C	Tightening torque [Nm]
10	65	50	0,25	0,000028	5500	n°4 x M4	n°8 x M4	5,2
15	140	125	0,42	0,000080	4200	n°4 x M5	n°8 x M5	10,5
20	250	230	0,65	0,000172	3800	n°4 x M6	n°8 x M6	17
25	295	285	0,87	0,000305	3500	n°4 x M6	n°8 x M6	17
30	350	345	1,11	0,000503	3200	n°4 x M6	n°8 x M6	17
35	800	760	1,75	0,001098	2700	n°4 x M8	n°8 x M8	43
40	880	870	2,13	0,001615	2500	n°4 x M8	n°8 x M8	43
45	990	980	2,96	0,002896	2200	n°4 x M8	n°8 x M8	43
50	1420	1360	4,31	0,005284	1900	n°4 x M10	n°8 x M10	64

ORDER EXAMPLE

RIGID COUPLING				
Model	Size	● Bore 1	● Bore 2	Hub connection bore 1 & 2
GRI	20	d1=20 H8	d2=20 H8	B



NOTES

- (*) Different bores to those shown available on request (minimum quantities may apply)
- Choice and availability of different hub connection types see pages 4 and 5.

FLOHR - PRODUCTS OVERVIEW

Gears

- Spiral toothed bevel gears
- Bevel gears
- Worm gears
- Spur gears
- Special gears



Gear Technology

- Bevel gearboxes
- Angle-planetary gearboxes
- Worm gearboxes
- Cam drives and indexing units
- Cam components
- Special gearboxes



Couplings

- Rigid and flexible couplings
- Frictional connections
- Drum-coupling
- Gear-couplings
- Safety couplings



Friction connections

- Shrink discs
- Shaft couplings
- Flange couplings
- Locking units



Clamping technology

- Manual and pneumatic clamping solutions
- Power clamps
- Pivot units
- End effector solutions
- Linear units
- Grippers



Belt drives

- V-belt and flat belt pulleys
- Flywheels
- Special pulleys
- Motor clamping systems
- Drive belts
- Customer designed castings
- Accessories



Sensor systems

- Incremental encoders
- Magnetic encoders
- Absolute encoders
- Electronic overspeed switches
- Electronic position switches
- Universal encoder systems
- Systems



Contract manufacturing

- Turning, milling, grinding
- Grooving and broaching
- Balancing
- Calculation and design
- Assembly
- Service and repair



FLOHR
INDUSTRIETECHNIK GMBH

FLOHR Germany

FLOHR INDUSTRIETECHNIK GmbH
Im Unteren Tal 1
D-79761 Waldshut-Tiengen
Phone: +49 (0) 77 51 / 87 31 0
info@flohr-industrietechnik.de
www.flohr-industrietechnik.de

FLOHR Switzerland

FLOHR INDUSTRIETECHNIK
Zilistude 164
CH-5465 Mellikon
Phone: +41 (0) 56 / 267 08 10
info@flohr.ch
www.flohr.ch

FLOHR Austria

FLOHR INDUSTRIETECHNIK
Bucherstraße 37b
A-6922 Wolfurt
Phone: +43 (0) 5572 / 372 158
info@flohr.at
www.flohr.at