

LIFELIGN® COUPLINGS

Save money up front...
and over the life of the equipment



FALK®
a good name in industry

FALK LIFELIGN® COUPLINGS

Realize life-long savings

Initial savings

Falk Lifelign couplings provide the economies budget-minded users seek, without sacrificing coupling quality or reliability.

Superior bore capacities and torque ratings

The unmatched bore capacities and torque ratings of Falk Lifelign couplings often allow you to select a smaller sized coupling for a given application.

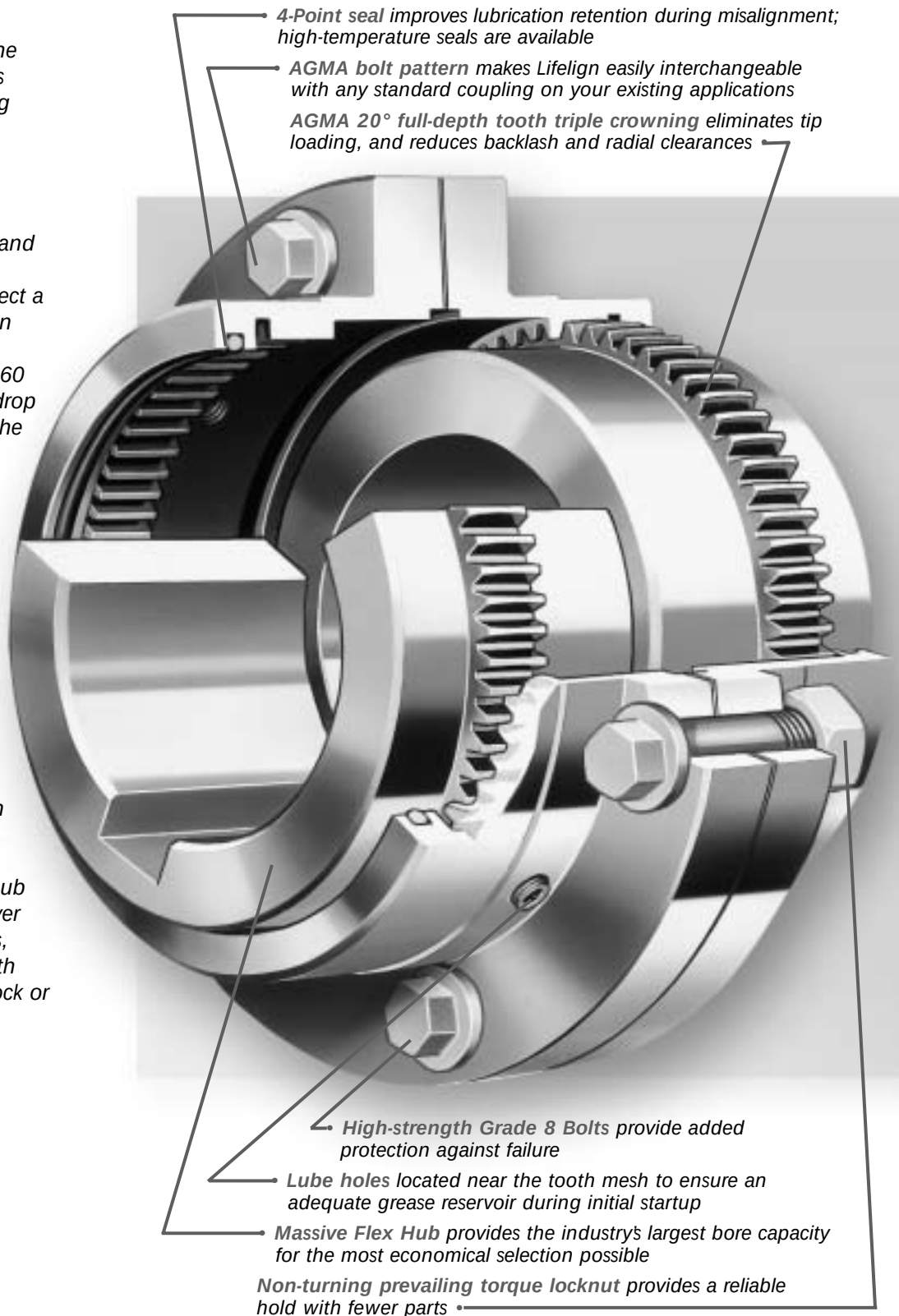
In fact, selections for T frame, 60 hertz electric motors result in a drop of one coupling size for half of the 28 motor frames available. The result: genuine Falk quality, reliability and performance with average savings of 15-20% over competitive offerings.

The smaller overall size also makes Lifelign couplings well suited for limited space applications that still require large bores and high torque loads.

Ideal for existing applications

Half for half interchangeability allows you to add capacity and realize the advantages of Lifelign couplings on your existing applications and designs, as well.

What's more, Lifelign's larger hub diameter features more metal over the keyway versus other designs, providing greater reserve strength against hub fractures due to shock or impact loads.



Greater bore capacity

AGMA Coupling Size	Popular Competitive Brands	Falk LIFELIGN Couplings
1	1.625	1.875
1½	2.250	2.375
2	2.750	2.875
2½	3.500	3.625
3	4.000	4.125
3½	4.500	4.875
4	5.500	5.750
4½	6.000	6.750
5	6.625	7.375
5½	7.500	8.250
6	8.125	9.125
7	9.625	10.875

Higher torque ratings

AGMA Coupling Size	Popular Competitive Brands	Falk LIFELIGN Couplings
1	7,500	10,080
1½	18,900	20,790
2	31,500	37,800
2½	56,700	66,150
3	94,500	107,100
3½	151,200	163,800
4	220,500	270,900
4½	302,400	371,700
5	434,700	500,900
5½	573,300	655,200
6	749,700	800,100
7	1,008,000	1,197,000

Designs to meet a diverse range of needs

G Standard Flanged Sleeve

General purpose series used on bulk handling systems, paper machines, fans, pumps, cranes mixers, sugar mills, crushers and many other high-torque applications.



GC Continuous Sleeve

Used on high-speed equipment with low inertia requirements.

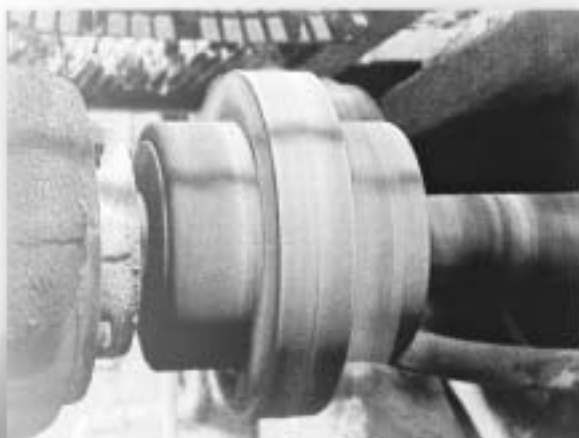


G Large Flanged Sleeve

For very high torque applications, including power plants, mining, cement, steel and metal mills, paper, sugar, rubber and other large industrial plants.



G10 Shrouded Bolt



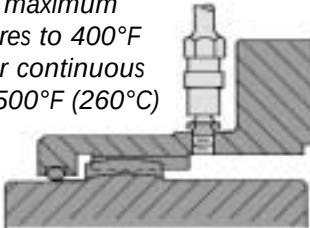
Lifetime savings

Lifeline Couplings are specially designed to remain your most economical solution by extending maintenance intervals, reducing wear and increasing service life.

Advanced lube system

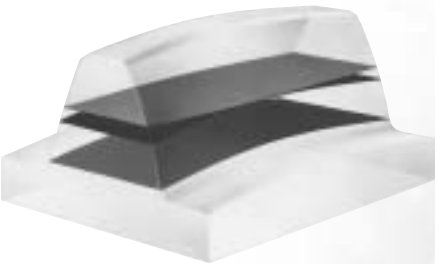
Falk Long Term Grease (LTG) eliminates routine lubrication cycles for up to 3 years. The location of the lubrication hole in the sleeve ensures that an adequate grease reservoir will be maintained close to the gear mesh. Plus, Lifeline's 4-point seal contact provides better retention of lubricant, eliminating the axial seal movement that can draw lubricant out of the coupling should misalignment occur.

For added reliability our standard seals handle a maximum continuous operating temperature of 250°F (121°C) and a maximum intermittent temperature of 300°F (149°C). High temperature seals are available, extending maximum temperatures to 400°F (204°C) for continuous duty and 500°F (260°C) for intermittent use.



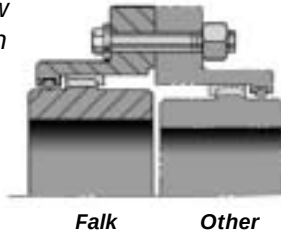
Triple crown protection

Crowning at the root, tip and face of each tooth helps minimize wear damage due to misalignment. This triple-crown effect eliminates tip loading, while also reducing backlash and radial clearances.



Reliable, convenient fasteners

High-strength, Grade-8 fasteners provide added protection against coupling failure at the flange joint. To assure the easiest possible assembly and disassembly, fasteners are zinc-coated to prevent corrosion and feature non-turning locknuts, which allow one-wrench installation with no washers required.



You get more than cost savings with Falk Lifeline couplings

Capacity

Falk supplies the largest gear couplings in the world for low-speed, high-torque applications or where bore capacities of 10" to 52" are required.

Quality

Falk pours its own castings and completely machines the components to assure maximum product integrity with minimum lead times.

Performance

Falk can supply alloy steels for hydraulic hub removal, increased wear resistance, or to increase torque ratings by an average of 60% for only about a 30% increase in price. The torque boost can allow smaller sizes to be used, thus significantly reducing overall costs.

Selection

Falk supplies a complete range of coupling designs including, gear disc, grid, elastomer and fluid couplings

Expertise

Falk's extensive applications engineering expertise combines with our comprehensive product offering to assure that you wind up with the best choice for the job.... and your preferred requirements.

Packaged system design

Falk's unmatched variety of gear drives allows us to develop complete packaged systems for your power transmission needs. In many cases, pre-packaged systems offer drop-in installation or replacement, minimizing installation time and costs.

Global availability and support

Falk has 900+ distributor locations and 80+ sales engineers, offering local availability on a global basis

3-Year Heavy-Duty Warranty

Falk rewrote industry expectations by offering the first 3-Year Warranty, standard, on all "heavy-duty" products.

Online support

Falk's online support includes spares information and pricing, service data, product literature, quoting tools and engineering artwork.

Selection Guide 451-110, January 2003

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Falk Factory Warranty We're so confident in the performance and reliability of our latest generation of Falk heavy-duty products that we're backing this comprehensive offering with the best standard warranty in the business. Our full, 3-year Heavy-Duty Warranty provides "shaft-to-shaft" protection on all Falk components — *including bearings and seals*. It's an industry first... and one more powerful reason why Falk is your ultimate bottom-line drive and coupling value.★ Lifelign couplings are warranted for 3 years when lubricated with Falk LTG Long Term Grease

★ Warranty extends for 3 years from date of shipment. Does not apply to Falk Omnibox, Ultramite, Fluid Couplings, Renew and spare parts. Warranty applies to Steelflex and Lifelign couplings with the use of Falk Long Term grease.

Basic Information

Install and operate Falk products in conformance with applicable local and national safety codes and per Falk installation manuals which are available upon request. Suitable guards for rotating members may be purchased from Falk as optional accessories. Consult your local Falk Representative for complete details.

WARNING: Lock out power and remove all external loads from the system before attempting to service any component in the system. Locking out the power and removing the load will reduce the possibility of unexpected motion or reaction in the system.

Falk Long Term Grease Benefits include: increased coupling life, significantly extended relubrication intervals, reduced maintenance costs, reduced downtime, superior lubrication, high load carrying capabilities and it is usable up to 250°F (121°C).

For information on Falk Long Term Grease, request **Form 840201B**. Lifelign gear couplings are warranted for 3 years when lubricated with Falk LTG Long Term Grease.

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The contents of this selection guide are subject to change without notice or obligation. Information contained herein should be confirmed before placing orders.

Lifelign® Gear Coupling Nomenclature

Type GC (Pages 14 thru 16 & 35 thru 39)



Gear — Continuous Sleeve

GC02 = Double Engagement
GC05 = Single Engagement/Floating Shaft

Type G (Pages 15 thru 37)



Gear — Standard Flanged Sleeve

G10/20 = Double Engagement (Shrouded/Exposed)
G51/52 = Single Engagement/Floating Shaft (Shrouded/Exposed)
GV10/20 = Vertical Double Engagement (Shrouded/Exposed)
GV51/52 = Vert. Single Engage./Floating Shaft (Shrouded/Exposed)
G62 = Brakewheel Double Engagement (Exposed)
G63 = Disc Brake Double Engagement (Exposed)
G66 = Brakewheel Single Engagement (Exposed)
GL20 = Slide Double Engagement (Exposed)
GL52 = Slide Single Engagement/Floating Shaft (Exposed)
G70 = Disconnect Inching Drives
G72 = Disconnect (Exposed)
G31/32 = Spacer (Shrouded/Exposed)
GP20 = Insulated Double Engagement (Exposed)
GP52 = Insulated Single Engagement/Floating Shaft (Exposed)
GP82 = Insulated Rigid (Exposed)
G81/82 = Rigid (Shrouded/Exposed)
GV82 = Vertical Rigid (Exposed)
GR20 = Shear Pin (Exposed)

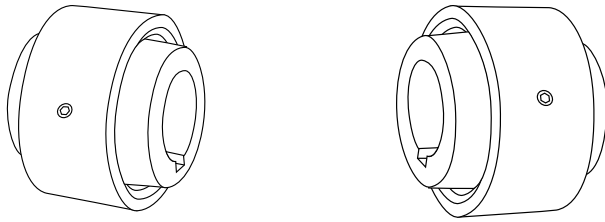
Type G (Pages 49 thru 63)



Gear — Large Flanged Sleeve

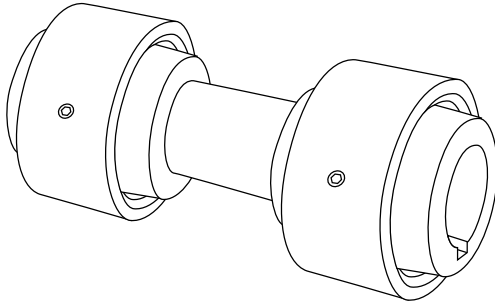
Type G20 = Double Engagement
Type G52 = Single Engagement/Floating Shaft
Type GV20 = Vertical Double Engagement
Type GV52 = Vertical Single Engagement//Floating Shaft
Type GL20 = Slide Double Engagement
Type G70 = Disconnect/Inching Drives
Type G32 = Spacer
Type G82 = Rigid
Type GV82 = Vertical Rigid
Type GR20 = Shear Pin

Lifeline Gear Coupling Types



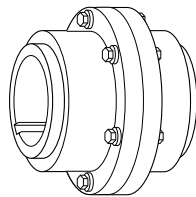
Type GC02 & GC05

With two hubs and one sleeve, the simplicity of this continuous sleeve coupling allows it to be easily adapted to a wide variety of applications. It's very compact, low in rotating mass, and has a lower initial cost than flanged types. ([See Pages 14 & 15.](#))



Type GC05 Floating Shaft

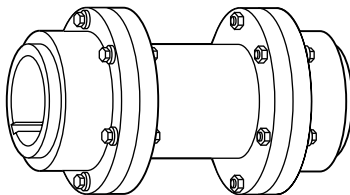
Floating shaft assemblies are used when distance between equipment is too great for spacer couplings. A standard floating shaft assembly consists of two standard single engagement couplings and a connecting shaft. A floating shaft can eliminate the need for additional bearing supports along spanning shafts because the shaft is supported by connected equipment through the single engagement couplings. ([See Page 16.](#))



Types G20, GV20

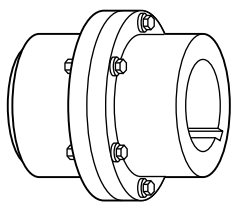
The Type G20 double engagement, close coupled type has two flex halves to accommodate both offset and angular misalignment or a combination of the two, as well as end float. It is ideal for all horizontal, close coupled applications including fans, overhead cranes, conveyors, steel and paper mill equipment. It is adaptable with limited end float kits for use on electric motors, generators or any machines fitted with sleeve or straight roller bearings. ([See Page 17.](#))

Type GV20 vertical double engagement coupling is a standard horizontal double engagement gear coupling modified to accommodate the sleeve centering assembly. Recommended for inclinations over 10°. ([See Page 22.](#))



Types G32

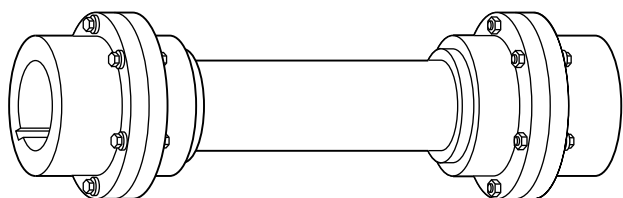
Spacer couplings for pump and compressor applications simplify servicing connected equipment. Spacer couplings use a standard double engagement coupling with a spacer tube and an additional set of fasteners. Stock spacer lengths for quick delivery are available in the popular sizes. Special lengths are also available. ([See Page 18.](#))



Types G52, GV52

The Type G52 single engagement design is used with floating shafts or three bearing drive trains. It has one flex half and one rigid half and only accepts angular misalignment. ([See Page 19.](#))

The GV52 vertical single engagement gear coupling is a standard horizontal single engagement gear coupling modified to accommodate the sleeve centering assembly. It recommended for inclinations over 10°. Downward thrust capacity for Sizes 1010 thru 1030GV52 is 10,000 lbs.; Sizes 1035 thru 1070GV52 is 30,000 lbs. and Sizes 1080GV52 and larger is 87,000 lbs. ([See Pages 23 & 44.](#))

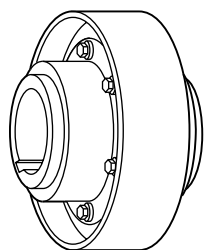


Types G52, GV52

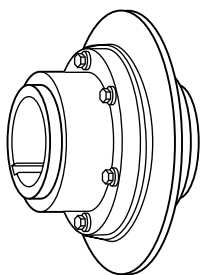
Floating shaft assemblies are used when distance between equipment is too great for spacer couplings. A standard floating shaft assembly consists of two standard single engagement couplings, two gap discs and a connecting shaft. A floating shaft can eliminate the need for additional bearing supports along spanning shafts because the shaft is supported by connected equipment through the single engagement couplings. ([See Pages 21 and 42.](#)) When used with a vertical floating shaft on inclinations over 10°, the Type GV52 coupling is used as the lower coupling to support the shaft.

Flex Hubs on Floating Shaft (RFFR) — Assembly of the flex hubs on the floating shaft allows for easier replacement and allows the rigid hubs with greater bore capacity to be used on the connected equipment shafts. This frequently means a smaller coupling size can be utilized.

Rigid Hubs on Floating Shaft (FRRF) — When the rigid hubs are on the floating shaft, shorter shaft spans can be accommodated, since no cover drawback is required.

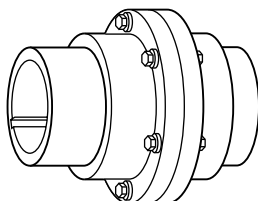


Types G62 & 66



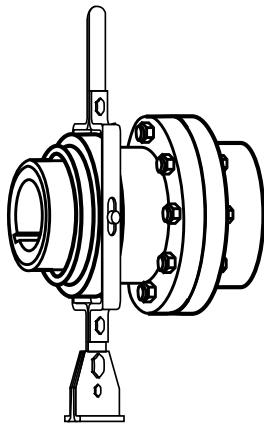
Type G63

Double or single engagement brakewheel and disc brake couplings are used for applications, such as cranes, hoists and conveyors. Brakewheel and disc brake couplings accommodate misalignment between connected equipment and eliminate the need for double shaft extensions on motors and gear drives for applications requiring brakes. ([See Pages 24 & 25.](#))



Types GL20 & GL52

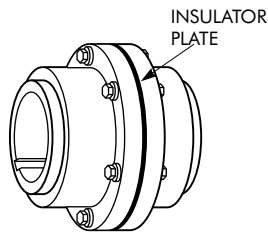
Double and single engagement Slide couplings are used for applications requiring axial movement to accommodate thermal shaft expansion or adjustment. ([See Pages 26 & 27.](#))



Types G70 & G72

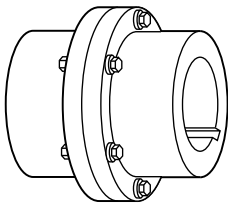
Type G70 Disconnect couplings are used for low speed applications that require quick disconnect of equipment or inching drives. It is used for occasional servicing or inspection of drive system components and is most commonly used on portable or stationary inching drive systems where the driving end hub/sleeve combination is mounted on the driving shaft on the incher for connecting or disconnecting at standstill. (See Page 28.)

Type G72 Disconnect couplings were designed for higher speed applications that require quick disconnect such as backup drives. When the long flex hub is mounted on the auxiliary driving shaft, the changeover is performed at standstill by engaging the free running hub. (See Page 29.)

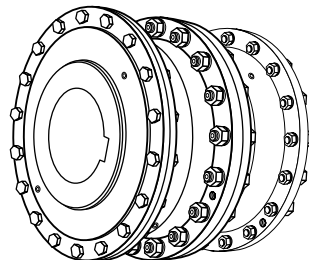


Types GP20, 52 & 82

Double, single or rigid engagement insulated couplings are used to eliminate the flow of stray current from one shaft to another and to protect sensitive electrical equipment. They are not intended to withstand high potential currents, short circuits or static charges. Insulated couplings consist of standard hubs and sleeves, and utilize reduced diameter socket head cap screws. The insulator plate is made of a NEMA Grade LE phenolic material and insulator bushings and washers are made of NEMA Grade G9 phenolic material. (See Page 30.)



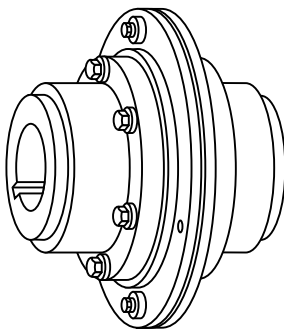
Type G82 & GV82



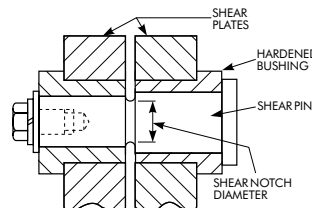
Type G Large Gear Coupling

Rigid couplings are used when there is no need to accommodate misalignment, and where thrust loads are generated such as vertical mixer applications. (See Pages 31 and 32.)

The Type G Large Gear Coupling is available in all types for capacities up to 72,450,00 lb-in., 8,185,000 Nm. (See Page 40.)



Type GR20



Shear pin couplings are used for applications subject to jamming and overload. When pins break, the equipment is physically disconnected preventing damage. If desired shear settings are unknown, the selection should be referred to Falk. (See Page 33.)

How to Select

Standard Selection Method

The standard selection method can be used for most motor, turbine, or engine driven applications. The following information is required to select a gear coupling.

Horsepower or torque

Running rpm.

Application or type of equipment to be connected (motor to pump, drive to conveyor, etc.).

Shaft diameters.

Shaft gaps.

Physical space limitations

Special bore or finish information and type of fit

Exceptions are High Peak Loads, Brake Applications or high frequency axial sliding (greater than 5 per hour). For these conditions, use the Formula Selection Method on the next page. Applications that require rapid changes in direction or torque reversals should be referred to Falk.

1. **RATING:** Determine system torque. If torque is not given, calculate as shown below.

$$\text{System Torque (lb - in)} = \frac{\text{HP} \times 63,000}{\text{rpm}}$$

Where: HP (Horsepower) is the actual or transmitted power required by the application (if unknown, use the motor or turbine nameplate rating) and RPM is the actual speed the coupling is rotating.

2. **SERVICE FACTOR:** Determine the appropriate service factor from [Table 2 and 3, Page 12](#) or [Table 4, Page 13](#).
3. **REQUIRED MINIMUM COUPLING RATING:** Determine the required minimum coupling rating as shown below:
Minimum Coupling Rating = S.F. (Service Factor) x Torque (lb-in)
4. **TYPE:** Refer to Pages 7-9 and select the appropriate coupling type.
5. **SIZE:** Determine proper size of type selected from [Table 1](#) by tracing down torque column to a value that is equal or greater than that determined in Step 3 above. Then turn to the dimension pages of appropriate coupling type selected and check the following for the size selected.
6. **Check:** Coupling Capacities and Dimensions
 - A. Bores — Check shaft diameters against coupling maximum bore. If bore is inadequate, consider the use of a reduced key from engineering tables, or select a larger size coupling.
 - B. Speeds (rpm) — Check the operating rpm against the coupling allowable speed. If catalogued values are inadequate, consider balancing. Balancing may allow up to 50% increase in speeds shown. Contact Falk with complete application details.
 - C. Dimensions — Checks are: length of hubs and alignment clearances against shaft lengths, outside diameter of coupling against radial clearances

STANDARD SELECTION EXAMPLE:

Select a gear coupling to connect a 500 HP, 1170 RPM electric motor to a drive high speed shaft of a maneuvering winch. Maximum shaft separation is .250". Motor shaft diameter is 3.375" and keyway is .875" x .438". Winch shaft diameter is 3.000" and keyway is .750" x .375". Motor and winch extensions are both 6.000" long.

1. DETERMINE REQUIRED RATING:

$$\text{System Torque (lb - in)} = \frac{500 \text{ HP} \times 63,000}{1170 \text{ rpm}} = 26,923$$

2. SERVICE FACTOR: From Service Factor [Table 2, Page 12](#) = 1.5

3. REQUIRED MINIMUM COUPLING RATING:

$$1.5 \times 26,923 \text{ lb-in} = 40,385 \text{ lb-in}$$

4. **TYPE:** From [Page 7](#), to connect close coupled shafts (.250" gap) the double engagement Type 1025GC02 or Type 1025G20 coupling is the selection. [Refer to Pages 14](#) or [17](#) for dimensions.
5. **SIZE:** From [Page 14](#), a Size 1025GC02 or [Page 17](#), a Size 1025G20 is the proper selection based on a torque rating of 66,150 lb-in exceeding the required minimum coupling rating of 40,385 lb-in
6. **CHECK:** Maximum speed capacity of 3,330 (1025GC02) and 5000 (1025G20) rpm exceeds required speed of 1170 rpm. Maximum bore capacity of 3.625" exceeds the actual shaft diameters.

TABLE 1 — Torque and Horsepower Ratings

Coupling Size		Torque Rating (lb-in)		HP per 100 RPM	
1010G/GC		10,080		16	
1015G/GC		20,790		33	
1020G/GC		37,800		60	
1025G/GC		66,150		105	
1030G/GC		107,100		170	
1035G/GC		163,800		260	
1040G		270,900		430	
1045G		371,700		590	
1050G		500,900		795	
1055G		655,200		1,040	
1060G		800,100		1,270	
1070G		1,197,000		1,900	
Coupling		Torque Rating (lb-in— millions)		HP per 100 RPM	
		1000 Series	2000 Series	1000 Series	2000 Series
1080G	2080G	1.506	2.070	2,390	3,285
1090G	2090G	1.997	2.791	3,170	4,430
1100G	2100G	2.747	3.919	4,360	6,220
1110G	2110G	3.654	5.393	5,800	8,560
1120G	2120G	4.914	6.880	7,800	10,920
1130G	2130G	6.363	8.190	10,100	13,000
1140G	2140G	8.064	10.080	12,800	16,000
1150G	2150G	9.702	11.970	15,400	19,000
1160G	2160G	11.592	14.490	18,400	23,000
1180G	2180G	14.679	18.900	23,300	30,000
1200G	2200G	18.963	25.200	30,100	40,000
1220G	2220G	24.066	31.500	38,200	50,000
1240G	2240G	30.744	39.690	48,800	63,000
1260G	2260G	39.753	48.510	63,100	77,000
1280G	2280G	51.660	59.850	82,000	95,000
1300G	2300G	59.850	72.450	95,000	115,000

How to Select

Formula Selection Method

The Standard Selection Method can be used for most coupling selections. The procedure below should be used for:

High Peak Loads

Brake Applications (where the disc brake or brakewheel is to be an integral part of the coupling, consult Falk for design options.)

High Frequency Axial Sliding

Shear Pin Couplings

Providing system peak torque and frequency, duty cycle, and brake torque rating will allow for a more refined selection using the Formula Selection Method.

- 1. High Peak Loads:** Use one of the following formulas for applications using motors, with torque characteristics that are higher than normal; applications with intermittent operations, shock loading, inertia effects due to starting and stopping and or system induced repetitive high peak torques. System Peak Torque is the maximum torque that can exist in the system. Select a coupling with a torque rating equal to or greater than selection torque calculated below.

A. NON-REVERSING HIGH PEAK TORQUE

Selection Torque (lb-in) = System Peak Torque

or

$$\text{Selection Torque (lb-in)} = \frac{\text{System Peak HP} \times 63,000}{\text{rpm}}$$

B. REVERSING HIGH PEAK TORQUE

Selection Torque (lb-in) = 1.5 x System Peak Torque

or

$$\text{Selection Torque (lb-in)} = \frac{1.5 \times \text{Peak HP} \times 63,000}{\text{rpm}}$$

C. OCCASIONAL PEAK TORQUES (Non-Reversing) — If a system peak torque occurs less than 1000 times during the expected coupling life, use the following formula:

Selection torque (lb-in) = .5 x System Peak Torque

or

$$\text{Selection Torque (lb-in)} = \frac{.5 \times \text{Peak HP} \times 63,000}{\text{rpm}}$$

For reversing service, select per Step B, above.

- 2. BRAKE APPLICATIONS:** If the torque rating of the brake exceeds the motor torque, use the brake rating as follows:
Selection Torque (lb-in) = Brake Torque Rating x S.F.
- 3. HIGH FREQUENCY AXIAL SLIDING:** For Type GL couplings; if axial movement occurs more than 5 times per hour, add .25 to the service factor.

$$\text{Selection Torque} = \frac{\text{HP} \times 63,000 \times (\text{S.F.} + .25)}{\text{rpm}}$$

- 4. SHEAR PIN COUPLINGS:** When selecting Type GR couplings, make certain that the required shear torque is within the minimum/maximum range for the coupling size selected. Refer to [Page 33](#).

The user provided shear torque value must be based on a system analysis. It is recommended that the shear torque value be at least 225% of the normal transmitted torque value for non-reversing applications to avoid breaking the shear pins due to fatigue during motor start-up. For reversing applications, the recommended shear torque setting is 300-400% of normal torque to avoid fatigue failures. If the connected equipment cannot tolerate these torque levels, expect to replace the shear pins more frequently.

FORMULA SELECTION EXAMPLE — High Peak Load:

Select a gear coupling to connect a gear drive low speed shaft to a reversing runout mill table. The electric motor rating is 50 hp at its base speed and the system peak torque at the coupling is estimated to be 150,000 lb-in. The coupling speed is 77 rpm at the motor base speed. Drive shaft diameter is 4.000" and keyway is 1.000" x .500". Runout table roll diameter is 5.250" and keyway is 1.250 x .625". Shaft separation is .500" maximum. Motor and drive shaft extensions are both 7.00" long.

- 1. TYPE:** From [Page 7](#), to connect close coupled shafts (.50" gap), the double engagement Type G20 coupling is the selection.
- 2. REQUIRED MINIMUM COUPLING RATING:**
Use the Reversing High Peak Torque formula in Step 1B.
 $1.5 \times 150,000 = 225,000$ Selection Torque
- 3. SIZE:** From [Table 1](#), Size 1040G20 coupling with torque rating of 270,900 exceeds the selection torque of 225,000 lb-in.
- 4. CHECK:** The maximum bore of 5.75" with square key, [Table 10, Page 36](#), allowable speed of 3600 and Dimension M of 5.70", on [Page 17](#), meet the requirements.

Service Factors

TABLE 2 — Gear Coupling Service Factors for Motor ♦ and Turbine Drives

Service factors listed are typical values based on normal operation of the drive systems.

Alphabetical listing of applications

Service Factor	Service Factor
AERATOR2.0	Hoist or Railway Service.....1.5
AGITATORS	Welder Load2.0
Vertical and Horizontal	HAMMERMILL1.75
Screw, Propeller, Paddle1.0	LAUNDRY WASHER OR
BARGE HAUL PULLER1.5	TUMBLER2.0
BLOWERS	LINE SHAFTS
Centrifugal.....1.0	Any Processing Machinery1.5
Lobe or Vane1.25	MACHINE TOOLS
CAR DUMPERS2.5	Wire and Traverse Drive.....1.0
CAR PULLERS1.5	Bending Roll, Notching Press,
CLARIFIER OR CLASSIFIER1.0	Punch Press, Planer, Plate
COMPRESSORS	Reversing.....1.75
Centrifugal.....1.0	Main Drive1.5
Rotary, Lobe or Vane1.25	MAN LIFTS Not Approved
Rotary, Screw1.0	METAL FORMING MACHINES
Reciprocating	Continuous Caster.....1.75
Direct Connected.....Refer to Falk	Draw Bench Carriage and
Without FlywheelRefer to Falk	Main Drive2.0
*With Flywheel and Gear	Extruder2.0
between Compressor	Forming Machine and
and Prime Mover	Forming Mills2.0
1 cylinder, single acting.....3.0	Slitters.....1.0
1 cylinder, double acting.....3.0	Wire Drawing or Flattening1.75
2 cylinders, single acting.....3.0	Wire Winder1.5
2 cylinders, double acting.....3.0	Coilers and Uncoilers.....1.5
3 cylinders, single acting.....3.0	MIXERS (see Agitators)
3 cylinders, double acting.....2.0	Concrete.....1.75
4 or more cyl., single act.....1.75	Muller.....1.5
4 or more cyl., double act.....1.75	PRESS, PRINTING1.5
▲CONVEYORS	PUG MILL1.75
Apron, Assembly, Belt, Chain,	PULVERIZERS
Flight, Screw.....1.0	Hammermill and Hog.....1.75
Bucket1.25	Roller.....1.5
Live Roll, Shaker and	PUMPS
Reciprocating.....3.0	Boiler Feed1.5
▲CRANES AND HOIST	Centrifugal —
Main Hoist.....1.75s	Constant Speed1.0
Skip Hoist1.75s	Frequent Speed Changes
Slope1.5	under Load1.25
Bridge, Travel or Trolley1.75	Descaling, with accumulators1.25
DYNAMOMETER1.0	Gear, Rotary, or Vane1.25
ELEVATORS	Reciprocating, Plunger Piston
Bucket, Centrifugal Discharge.....1.25	1 cyl., single or double act.....3.0
Freight or PassengerNot Approved	2 cyl., single acting.....2.0
Gravity Discharge1.25	2 cyl., double acting.....1.75
ESCALATORSNot Approved	3 or more cylinders.....1.5
EXCITER, GENERATOR1.0	Screw Pump, Progressing Cavity1.25
EXTRUDER, PLASTIC1.5	Vacuum Pump1.25
FANS	SCREENS
Centrifugal.....1.0	Air Washing1.0
Cooling Tower2.0	Grizzly2.0
Forced Draft — Across the	Rotary Coal or Sand.....1.5
Line start1.5	Vibrating2.5
Forced Draft Motor	Water1.0
Driven thru fluid or	SKI TOWS & LIFTSNot Approved
electric slip clutch1.0	STEERING GEAR1.0
Gas Recirculating.....1.5	STOKER1.0
Induced Draft with damper	TIRE SHREDDER1.50
control or blade cleaner.....1.25	TUMBLING BARREL1.75
Induced Draft without controls2.0	WINCH, MANEUVERING
FEEDERS	Dredge, Marine1.5
Apron, Belt, Disc, Screw1.0	Windlass.....1.5
Reciprocating.....2.5	WOODWORKING
GENERATORS	MACHINERY1.0
Even Load.....1.0	WORK LIFT PLATFORMS ..Not Approved

♦ Add 0.25 to the required service factor for Type GL slide coupling applications where axial movement occurs more than 5 times per hour. When electric motors, generators, engines, compressors and other machines are fitted with sleeve or straight roller bearings, use limited axial end float couplings to protect the bearings. Order limited end float discs with the coupling.

* For balanced opposed design, refer to Falk.

▲ If people are occasionally transported, Refer to Falk for the selection of the proper size coupling.

♣ For high peak load applications (such as Metal Rolling Mills) refer to Falk.

TABLE 3 ♥ — Engine Drive Service Factors

Service Factors for engine drives are those required for applications where good flywheel regulation prevents torque fluctuations greater than $\pm 20\%$. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

No. of Cylinders	4 or 5 ♥						6 or more ♥					
Table 1 S.F.	1.0	1.25	1.5	1.75	2.0	2.5	1.0	1.25	1.5	1.75	2.0	2.5
Engine S.F.	2.0	2.25	2.5	2.75	3.0	3.5	1.5	1.75	2.0	2.25	2.5	3.0

♥ To use Table 3, first determine application service factor from Table 2. Use that factor to determine ENGINE Service Factor from Table 3. When service factor from Table 2 is greater than 2.5, refer complete application details to Falk for engineering review.

Alphabetical listing of industries

Service Factor	Service Factor
AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS	Skelp MillsRefer to Falk
Direct or on L.S. shaft of	Slitters, Steel Mill only.....1.75
Reducer, with final drive	Soaking Pit Cover Drives —
Machined Spur Gears2.0	Lift1.0
Single Helical or	Travel2.0
Herringbone Gears1.75	Straighteners2.0
Conveyors, Feeders, Screens,	Unscramblers (Billet Bundle
Elevators.....See General	Busters)2.0
Listing	Wire Drawing Machinery1.75
Crushers, Ore or Stone2.5	OIL INDUSTRY
Dryer, Rotary.....1.75	Chiller1.25
Grizzly2.0	Oilwell Pumping (not over
Hammermill or Hog1.75	150% peak torque).....2.0
Tumbling Mill or Barrel1.75	Paraffin Filter Press.....1.5
BREWING AND DISTILLING	Rotary Kiln2.0
Bottle and Can	PAPER MILLS
Filling Machines1.0	Barker Auxiliary, Hydraulic.....2.0
Brew Kettle.....1.0	Barker, Mechanical2.0
Cookers, Continuous Duty.....1.25	Barking Drum
Lauter Tub1.5	L.S. shaft of reducer with
Mash Tub1.25	final drive - Helical
Scale Hopper, Frequent Peaks1.75	or Herringbone Gear2.0
CLAY WORKING INDUSTRY	Machined Spur Gear2.5
Brick Press, Briquette Machine,	Cast Tooth Spur Gear3.0
Clay Working Machine,	Beater & Pulper1.75
Pug Mill1.75	Bleachers, Coaters1.0
DREDGES	Calender & Super Calender.....1.75
Cable Reel1.75	Chipper2.5
Conveyors1.25	Converting Machine1.25
Cutter head, Jig Drive2.0	Couch1.75
Maneuvering Winch1.5	Cutter, Felt Whipper2.0
Pumps (uniform load)1.5	Cylinder1.75
Screen Drive, Stacker1.75	Dryer1.75
Utility Winch1.5	Felt Stretcher1.25
FOOD INDUSTRY	Fourdriner1.75
Beet Slicer.....1.75	Jordan2.0
Bottling, Can Filling Machine1.0	Log Haul2.0
Cereal Cooker1.25	Line Shaft.....1.5
Dough Mixer, Meat Grinder1.75	Press1.75
LUMBER	Pulp Grinder1.75
Band Resaw1.5	Reel, Rewinder, Winder1.5
Circular Resaw, Cut-off1.75	Stock Chest, Washer,
Edger, Head Rig, Hog2.0	Thickener1.5
Gang Saw	Stock Pumps, Centrifugal
(Reciprocating).....Refer to Falk	Constant Speed1.0
Log Haul.....2.0	Frequent Speed Changes
Planer1.75	Under Load1.25
Rolls, Non-Reversing1.25	Suction Roll.....1.75
Rolls, Reversing2.0	Vacuum Pumps1.25
Sawdust Conveyor.....1.25	RUBBER INDUSTRY
Slab Conveyor1.75	Calender2.0
Sorting Table1.5	Cracker, Plasticator2.5
Trimmer1.75	Extruder1.75
▲METAL ROLLING MILLS	Intensive or Banbury Mixer.....2.5
Coilers (Up or Down) Cold	Mixing Mill, Refiner or Sheeter
Mills only.....1.5	One or two in line2.5
Coilers (Up or Down) Hot	Three or four in line2.0
Mills only.....2.0	Five or more in line.....1.75
Coke Plants	Tire Building Machine.....2.5
Pusher Ram Drive2.5	Tire & Tube Press Opener
Door Opener2.0	(Peak Torque).....1.0
Pusher or Larry Car	Tuber, Strainer, Pelletizer1.75
Traction Drive3.0	Warming Mill
Continuous Caster1.75	One or two Mills in line2.0
Cold Mills —	Three or more Mills in line1.75
Strip Mills.....Refer to Falk	Washer2.5
Temper Mills.....Refer to Falk	SEWAGE DISPOSAL EQUIPMENT
Cooling Beds1.5	Bar Screen, Chemical Feeders,
Drawbench2.0	Collectors, Dewatering
Feed Rolls - Blooming Mills3.0	Screen, Grit Collector1.0
Furnace Pushers2.0	SUGAR INDUSTRY
Hot and Cold Saws2.0	Cane Carrier & Leveler.....1.75
Hot Mills —	Cane Knife & Crusher2.0
Strip or Sheet Mills.....Refer to Falk	Mill Stands, Turbine Driver
Reversing BloomingRefer to Falk	With all helical or
or Slabbing Mills.....Refer to Falk	Herringbone gears.....1.5
Edger DrivesRefer to Falk	Electric Drive or Steam Engine
Ingot Cars.....2.0	Drive with Helical,
Manipulators.....3.0	Herringbone, or Spur Gears
Merchant Mills.....Refer to Falk	with any Prime Mover.....1.75
Mill Tables	TEXTILE INDUSTRY
Roughing Breakdown	Batcher1.25
Mills3.0	Calender, Card Machine.....1.5
Hot Bed or Transfer,	Cloth Finishing Machine.....1.5
non-reversing.....1.5	Dry Can, Loom1.5
Runout, reversing3.0	Dyeing Machinery1.25
Runout, non-reversing,	Knitting Machine.....Refer to Falk
non-plugging2.0	Mangle, Napper, Soaper1.25
Reel Drives.....1.75	Spinner, Tenter Frame, Winder1.5
Rod Mills.....Refer to Falk	
Screwdown2.0	
Seamless Tube Mills	
Piercer.....3.0	
Thrust Block.....2.0	
Tube Conveyor Rolls2.0	
Reeler2.0	
Kick Out.....2.0	
Shear, CroppersRefer to Falk	
Sidguards3.0	

SERVICE FACTORS: are a guide, based on experience of the ratio between coupling catalog rating and system characteristics. The system characteristics are best measured with a torque meter.

TABLE 4 — Service Factors

Torque Demands Driven Machine	Typical applications for electric motor or turbine driven equipment	Typical Service Factor
	Constant Torque such as Centrifugal Pumps, Blowers, and Compressors.	1.0
	Continuous duty with some torque variations including Extruders, Forced Draft Fans.	1.5
	Light shock loads from Briquetting Machine, Rubber Calender, or Crane and Hoist.	2.0
	Moderate shock loading as expected from a Car Dumper, Ball Mill, or Vibrating Screen.	2.5
	Heavy shock load with some negative torques from Crushers, Hammer Mill, and Barking Drum.	3.0
	Applications like Reciprocating Compressors with frequent torque reversals, which do not necessarily cause reverse rotations.	Consult Falk Engineering

How to Order

The following information is necessary to quote or ship to your exact requirements. Prompt service is assured if this information is given on your inquiry or order.

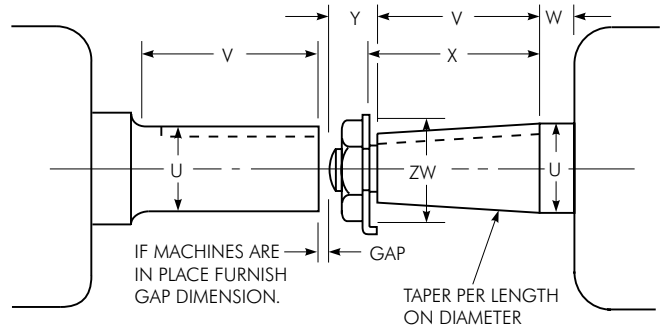
1. Application: Drive & Driven
2. Power: Normal HP, Maximum HP or Torque (lb.-in.)
3. Speed (RPM)
4. Quantity
5. Coupling Size and Type, Horizontal, Vertical; e. g., Size 1010, Type G20
6. Class of driven machine
7. Gap or distance between shaft ends (BE Dimension)
8. Bore Sizes
9. Shaft Dimensions as follows:

For Straight Shafts

Driving Shaft	Diameter U _____	Driven Shaft	Diameter U _____
	Length V _____		Length V _____
	Keyway _____		Keyway _____

Diameter U _____	Across Flats _____
Length V _____	Corners ZW _____
Length W _____	Taper per Foot _____
Length X _____	Keyway _____
Length Y _____	

For Taper Shafts: Specify if keyway is to be parallel to the axis or to the bore.



General Information

Falk standards apply unless otherwise specified.

Dimensions are for reference only and are subject to change without notice unless certified.

Unless otherwise specified, Falk coupling hubs will be bored for an INTERFERENCE FIT without a setscrew. Clearance fit hubs with a setscrew can be supplied if specified.

Reference Notes

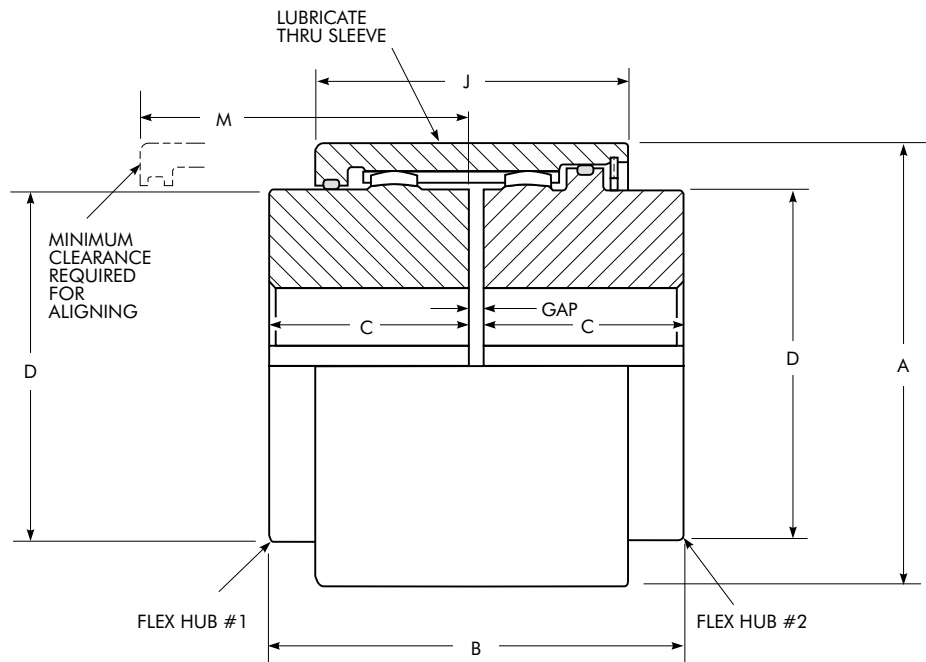
† Peak torque capacity is two times the published rating.

‡ Consult Factory for higher speeds. Balancing may allow up to a 50% increase in speeds shown.

● Maximum bores are reduced for hubs furnished with an INTERFERENCE FIT and a setscrew over the keyway. Maximum bores may also be reduced when puller bolt holes are required. Refer to Tables 10 & 11 on Page 36. Bore capacities can be increased beyond values shown if the coupling torque rating is reduced. Refer to Falk. Recommended key sizes for the listed maximum bores are shown in Table 8, Page 35, and Table 21, Page 49.

■ Minimum bore is the smallest bore to which a RSB (rough stock bore) hub can be bored. Depending upon coupling size, rough stock bore hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

Type **GC02** Continuous Sleeve
Double Engagement/Dimensions — Inches

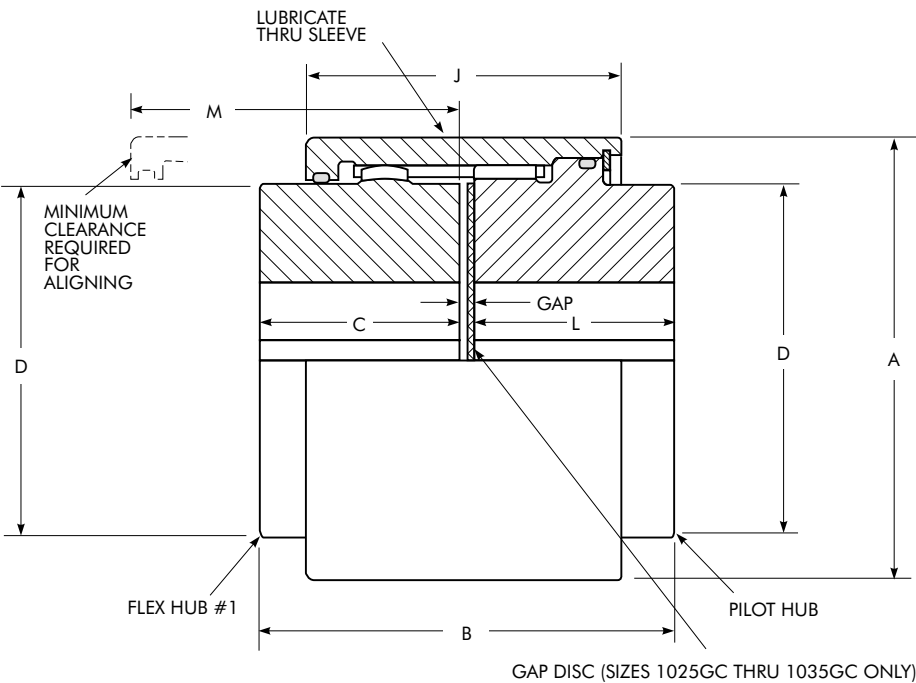


SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore (sq key) ●	Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt (oz)	A	B	C	D	J	M	Gap	SIZE ★
1010GC	10,080	5,300	1.875	.50	7.6	.4	3.50	3.50	1.69	2.70	2.41	2.57	.125	1010GC
1015GC	20,790	4,300	2.375	.75	13.6	1.0	4.30	4.01	1.94	3.40	3.00	3.19	.125	1015GC
1020GC	37,800	3,700	2.875	1.00	25	1.5	5.20	5.00	2.44	4.14	3.72	3.90	.125	1020GC
1025GC	66,150	3,300	3.625	1.25	47	2.3	6.44	6.25	3.03	5.14	4.30	4.55	.188	1025GC
1030GC	107,100	2,900	4.125	1.50	75	3.3	7.50	7.37	3.59	6.00	4.72	4.97	.188	1030GC
1035GC	163,800	2,600	4.875	2.00	114	4.3	8.50	8.63	4.19	7.00	5.25	5.50	.250	1035GC

★ See Page 13 for General Information and other Reference Notes.

Type GC05 Continuous Sleeve

Single Engagement/Dimensions — Inches

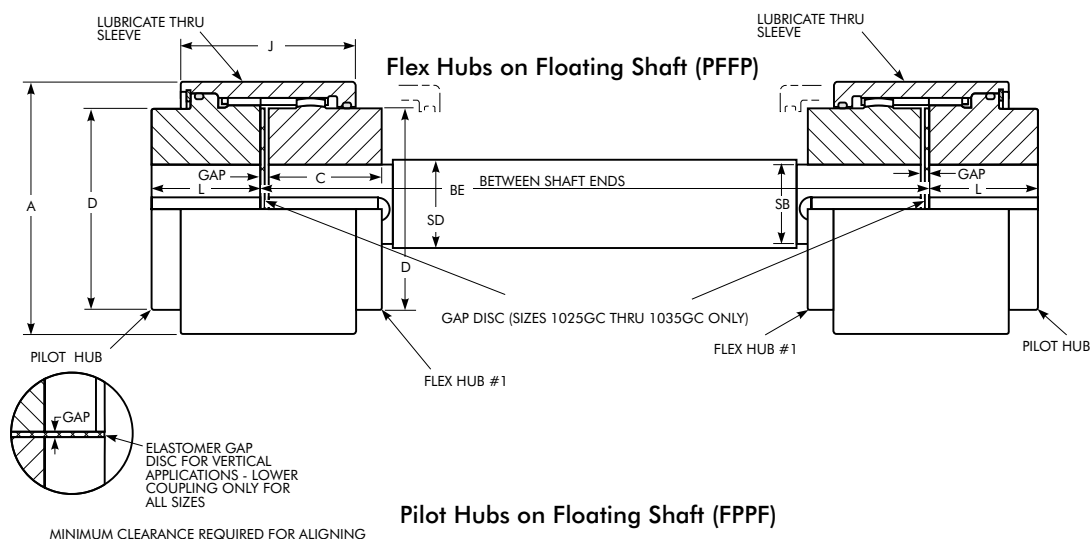


SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore (sq key) •	Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt (oz)	A	B	C	D	J	L	M	Gap	SIZE ★
1010GC	10,080	5,300	1.875	.50	7.7	.3	3.50	3.50	1.69	2.70	2.41	1.69	2.57	.125	1010GC
1015GC	20,790	4,300	2.375	.75	14.1	.7	4.30	4.08	1.94	3.40	3.00	2.01	3.19	.125	1015GC
1020GC	37,800	3,700	2.875	1.00	26	1.1	5.20	5.07	2.44	4.14	3.72	2.51	3.90	.125	1020GC
1025GC	66,150	3,300	3.625	1.25	48	1.8	6.44	6.25	3.03	5.14	4.30	3.03	4.55	.188	1025GC
1030GC	107,100	2,900	4.125	1.50	76	2.6	7.50	7.37	3.59	6.00	4.72	3.59	4.97	.188	1030GC
1035GC	163,800	2,600	4.875	2.00	115	3.4	8.50	8.63	4.19	7.00	5.25	4.19	5.50	.250	1035GC

★ See Page 13 for General Information and other Reference Notes.

Type GC05 Continuous Sleeve

Floating Shaft Single Engagement/Dimensions — Inches



SIZE ★	Max Bore (sq Key) ●	Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt Per Cplg (oz)	A	BE Min		C	D	J	L	M	Gap	SIZE ★
						PFFP	FPPF							
1010GC	1.875	.50	7.7	.3	3.50	7.50	3.63	1.69	2.70	2.41	1.69	2.57	.125	1010GC
1015GC	2.375	.75	14.1	.7	4.30	9.25	4.13	1.94	3.40	3.00	2.01	3.19	.125	1015GC
1020GC	2.875	1.00	26	1.1	5.20	11.40	5.13	2.44	4.14	3.72	2.51	3.90	.125	1020GC
1025GC	3.625	1.25	48	1.8	6.44	13.30	6.44	3.03	5.14	4.30	3.03	4.55	.188	1025GC
1030GC	4.125	1.50	76	2.6	7.50	14.50	7.56	3.59	6.00	4.72	3.59	4.97	.188	1030GC
1035GC	4.875	2.00	115	3.4	8.50	16.25	8.88	4.19	7.00	5.25	4.19	5.50	.250	1035GC

Floating Shaft

SIZE ★	Ass'y ▲ Torque Rating (lb-in)	SB Shaft End Dia	SD Shaft Dia	Weight (lb-in)	WR2 (lb-in ² /in)	Floating Shafts — Inches						
						Max BE (in) For Various RPM's ♦						
						1750	1430	1170	870	720	580	540 & Less
1010GC	4,370	1.500	1.562	.54	.17	54	60	66	77	85	94	97
	10,080	1.875	2.000	.89	.45	61	68	75	87	96	107	110
1015GC	10,350	2.000	2.125	1.00	.57	63	70	77	90	99	110	113
	20,790	2.375	2.500	1.39	1.09	69	76	84	97	107	119	123
1020GC	20,200	2.500	2.625	1.53	1.32	70	78	86	100	110	122	126
	37,800	2.875	3.000	2.00	2.25	75	83	92	107	117	131	135
1025GC	39,500	3.125	3.250	2.35	3.10	78	87	96	111	122	136	140
	66,150	3.625	3.750	3.13	5.50	84	93	103	119	131	146	151
1030GC	75,300	3.875	4.000	3.56	7.12	87	96	106	123	136	151	156
	107,100	4.125	4.250	4.02	9.07	89	99	110	127	140	156	160
1035GC	118,000	4.500	4.750	5.02	14.16	95	105	116	134	148	165	169
	163,800	4.875	5.000	5.56	17.38	97	107	119	138	152	169	174

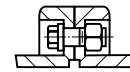
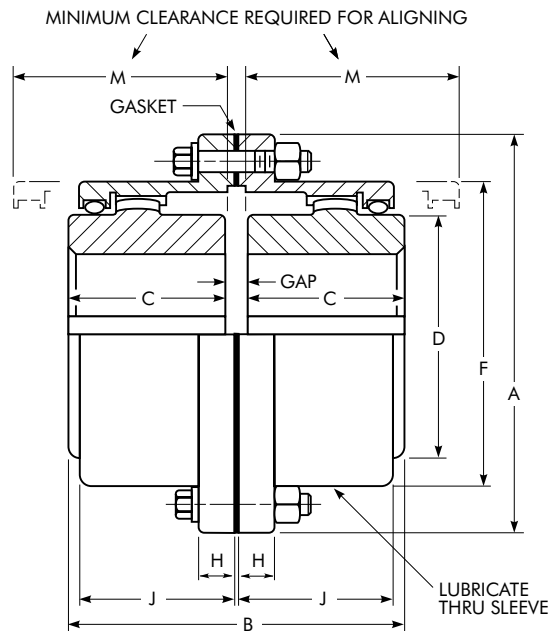
★ See Page 13 for General Information and other Reference Notes.

▲ Limited by coupling size, shaft end diameter or both. Refer to Page 20 for selection procedure.

♦ Interpolate for intermediate speeds. Maximum BE is based on 70% of critical speed. Refer to Falk for higher running speeds.

Type G20 Standard Flanged Sleeve

Double Engagement/Dimensions — Inches



For Sizes 1010G thru 1055G, Type G10 Shrouded Bolts furnished only when specified on order.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •	Min Bore ■	Cplg Wt With No Bore-lb		Lube Wt lb	A	B	C	D	F	H	J	M	Gap	SIZE ★
					G10	G20											
1010G	10,080	8,000	1.875	.50	9	10	.09	4.56	3.50	1.69	2.70	3.30	.55	1.53	2.00	.125	1010G
1015G	20,790	6,500	2.375	.75	17	20	.16	6.00	4.00	1.94	3.40	4.14	.75	1.88	2.40	.125	1015G
1020G	37,800	5,600	2.875	1.00	30	35	.25	7.00	5.00	2.44	4.14	4.98	.75	2.34	3.00	.125	1020G
1025G	66,150	5,000	3.625	1.25	55	65	.50	8.38	6.25	3.03	5.14	6.10	.86	2.82	3.60	.188	1025G
1030G	107,100	4,400	4.125	1.50	85	95	.80	9.44	7.37	3.59	6.00	7.10	.86	3.30	4.20	.188	1030G
1035G	163,800	3,900	4.875	2.00	135	150	1.20	11.00	8.63	4.19	7.00	8.32	1.12	3.84	5.10	.250	1035G
1040G	270,900	3,600	5.750	2.50	195	215	2.00	12.50	9.75	4.75	8.25	9.66	1.12	4.38	5.70	.250	1040G
1045G	371,700	3,200	6.750	3.00	280	300	2.30	13.62	10.93	5.31	9.25	10.79	1.12	4.84	6.50	.312	1045G
1050G	500,900	2,900	7.375	3.50	390	420	3.90	15.31	12.37	6.03	10.00	12.04	1.50	5.54	7.20	.312	1050G
1055G	655,200	2,650	8.250	4.00	525	550	4.90	16.75	13.56	6.62	11.00	13.16	1.50	6.22	8.00	.312	1055G
1060G	800,100	2,450	9.125	4.50	...	675	7.00	18.00	15.13	7.41	12.00	14.41	1.00	6.66	9.00	.312	1060G
1070G	1,197,000	2,150	10.875	5.00	...	1070	9.60	20.75	17.75	8.69	14.00	16.73	1.12	7.70	10.50	.375	1070G

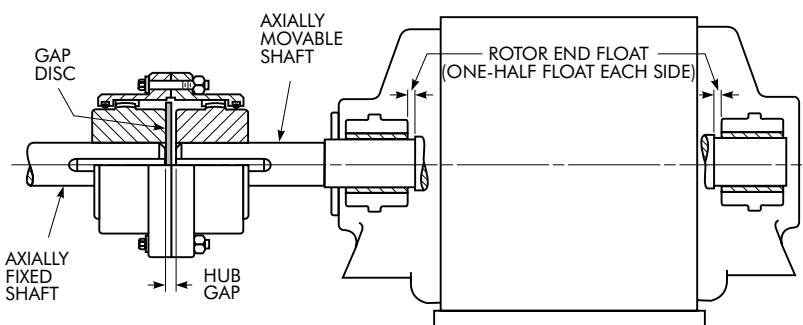
★ See Page 13 for General Information and other Reference Notes.

TABLE 5 — Limited End Float & Standard Gap Disc Dimensions – Inches

SIZE	B	End Float ♦	Gap Disc *		Gap
			Thickness	Dia	
1010G	3.58	.094	.156	2.95	.203
1015G	4.08	.094	.156	3.70	.203
1020G	5.11	.094	.188	4.50	.234
1025G	6.39	.094	.281	5.55	.328
1030G	7.54	.094	.312	6.50	.359
1035G	8.79	.188	.312	7.55	.406
1040G	9.91	.188	.312	8.95	.406
1045G	11.15	.188	.438	9.95	.531
1050G	12.59	.188	.438	10.95	.531
1055G	13.80	.188	.469	12.00	.563
1060G	15.45	.188	.532	13.12	.625
1070G	18.10	.188	.625	15.10	.718

♦ If these values exceed one-half rotor end float or equivalent manufacturer's specification, refer to Falk.

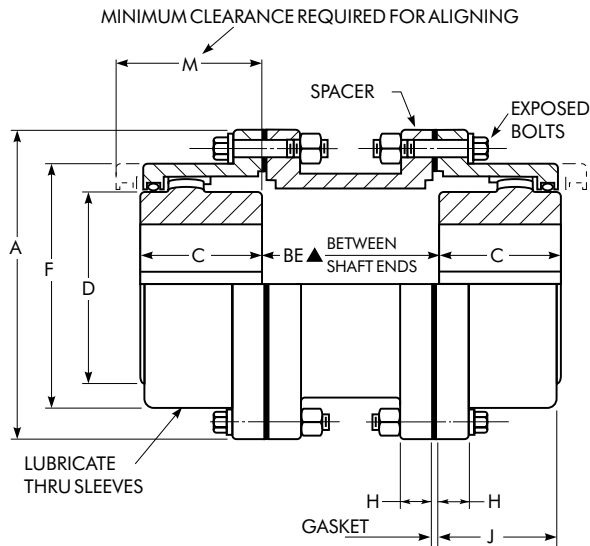
* Gap disc material: Neoprene, 70 durometer.



Type G32 Standard Flanged Sleeve

Spacer/Dimensions — Inches

Without Limited End Float



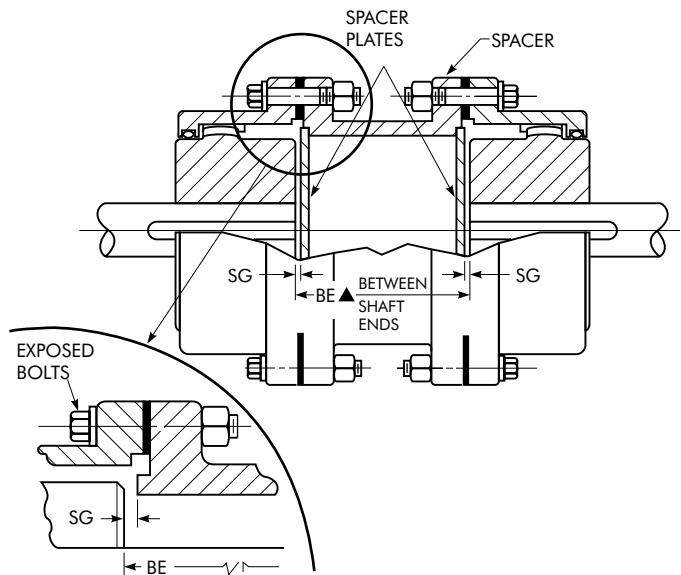
SIZE	End Float ♦	SG	Addition to Stock BE Length *
1015G	.094	.0235	.088
1020G	.094	.0235	.108
1025G	.094	.0235	.145
1030G	.094	.0235	.185
1035G	.188	.047	.186
1040G thru 1070G	.188	.047	None

♦ Refer to the Falk if these values exceed one-half the rotor end float or the equipment manufacturers' specifications.
 * Couplings with stock spacers and limited end float must add applicable addition to the BE (Between Shaft Ends) dimension.

SIZE	BE Spacers in Stock				
	3.500	4.375	4.500	5.000	7.000
1010G	•	•	...	•	...
1015G	•	...	...	•	...
1020G	...	•	...	•	•
1025G	...	...	...	•	•
1030G	...	...	•♦	•	•
1035G	...	...	...	...	...

♦ Bolt holes staggered for assembly clearance.

With Limited End Float (Refer to drawing at left for balance of dimensions.)



NON-STOCK SPACER DESIGN
SIZES 1010 THRU 1070G32.

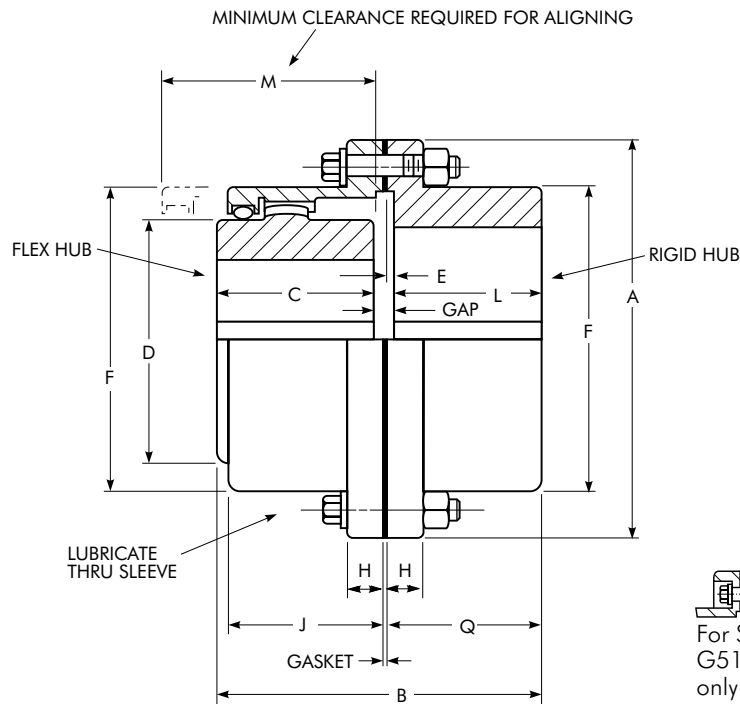
SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •	Min Bore ■	Coupling Wt-lb		Lube Wt-lb		A	BE Min ▲		C	D	F	H	J	M	SIZE ★
					Cplg Wt With No Bore and Min BE	Extra Spacer Wt per in of Length	Min Wt Less Spacer	Plus per in of Spacer Length		G31	G32							
1010G	10,080	7,000	1.875	.50	15	.67	.09	...	4.56	3.25	3.25	1.69	2.70	3.30	.55	1.53	1.90	1010G
1015G	20,790	5,500	2.375	.75	30	.71	.16	...	6.00	3.25	3.25	1.94	3.40	4.14	.75	1.88	2.20	1015G
1020G	37,800	4,600	2.875	1.00	45	.93	.25	.03	7.00	3.25	3.25	2.44	4.14	4.98	.75	2.34	2.70	1020G
1025G	66,150	4,000	3.625	1.25	85	1.15	.50	.06	8.38	4.25	3.75	3.03	5.14	6.10	.86	2.82	3.20	1025G
1030G	107,100	3,600	4.125	1.50	120	1.32	.80	.06	9.44	4.25	3.75	3.59	6.00	7.10	.86	3.30	3.70	1030G
1035G	163,800	3,100	4.875	2.00	195	2.01	1.20	.12	11.00	5.12	4.75	4.19	7.00	8.32	1.12	3.84	4.20	1035G
1040G	270,900	2,800	5.750	2.50	270	2.80	2.00	.20	12.50	5.12	4.75	4.75	8.25	9.66	1.12	4.38	4.80	1040G
1045G	371,700	2,600	6.750	3.00	365	4.12	2.30	.20	13.62	5.25	4.75	5.31	9.25	10.79	1.12	4.84	5.30	1045G
1050G	500,900	2,400	7.375	3.50	525	4.56	3.90	.20	15.31	7.25	5.75	6.03	10.00	12.04	1.50	5.54	6.00	1050G
1055G	655,200	2,200	8.250	4.00	675	5.01	4.90	.20	16.75	7.25	5.75	6.62	11.00	13.16	1.50	6.22	6.80	1055G
1060G	800,100	2,100	9.125	4.50	790	6.54	7.00	.20	18.00	...	5.75	7.41	12.00	14.41	1.00	6.66	7.20	1060G
1070G	1,197,000	1,800	10.875	5.00	1240	7.91	9.60	.20	20.75	...	5.75	8.69	14.00	16.73	1.12	7.70	8.20	1070G

★ See Page 13 for General Information and other Reference Notes.

▲ BE is the distance between shaft ends whether standard (stock) or special spacer lengths are used.

Type G52 Standard Flanged Sleeve

Single Engagement/Dimensions — Inches



For Sizes 1010G thru 1055G, Type G51 Shrouded Bolts furnished only when specified on order.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore•		Min Bore ■	Cplg Wt With No Bore-lb		Lube Wt lb	A	B	C	D	E	F	H	J	L	M	Q	Gap	SIZE ★
			Flex Hub	Rigid Hub		G51	G52														
1010G	10,080	8,000	1.875	2.375	.50	9	10	.05	4.56	3.41	1.69	2.70	.10	3.30	.55	1.53	1.56	2.00	1.66	.156	1010G
1015G	20,790	6,500	2.375	2.938	.75	18	20	.09	6.00	3.92	1.94	3.40	.10	4.14	.75	1.88	1.82	2.40	1.92	.156	1015G
1020G	37,800	5,600	2.875	3.625	1.00	30	35	.15	7.00	4.90	2.44	4.14	.10	4.98	.75	2.34	2.30	3.00	2.40	.156	1020G
1025G	66,150	5,000	3.625	4.375	1.25	55	60	.26	8.38	6.12	3.03	5.14	.10	6.10	.86	2.82	2.90	3.60	3.00	.188	1025G
1030G	107,100	4,400	4.125	5.125	1.50	85	95	.40	9.44	7.24	3.59	6.00	.10	7.10	.86	3.30	3.46	4.20	3.56	.188	1030G
1035G	163,800	3,900	4.875	5.875	2.00	135	150	.60	11.00	8.43	4.19	7.00	.10	8.32	1.12	3.84	4.02	5.10	4.12	.218	1035G
1040G	270,900	3,600	5.750	7.250	2.50	200	220	1.03	12.50	9.56	4.75	8.25	.16	9.66	1.12	4.38	4.54	5.70	4.70	.281	1040G
1045G	371,700	3,200	6.750	8.125	3.00	285	300	1.25	13.62	10.75	5.31	9.25	.16	10.79	1.12	4.84	5.14	6.50	5.30	.312	1045G
1050G	500,900	2,900	7.375	9.000	3.50	400	430	2.00	15.31	12.17	6.03	10.00	.20	12.04	1.50	5.54	5.80	7.20	6.00	.344	1050G
1055G	655,200	2,650	8.250	10.000	4.00	555	580	2.50	16.75	13.76	6.62	11.00	.20	13.16	1.50	6.22	6.80	8.00	7.00	.344	1055G
1060G	800,100	2,450	9.125	11.000	4.50	...	715	3.75	18.00	15.16	7.41	12.00	.26	14.41	1.00	6.66	7.34	9.00	7.60	.406	1060G
1070G	1,197,000	2,150	10.875	13.000	5.00	...	1120	5.00	20.75	17.86	8.69	14.00	.33	16.73	1.12	7.70	8.67	10.50	9.00	.500	1070G

★ See Page 13 for General Information and other Reference Notes.

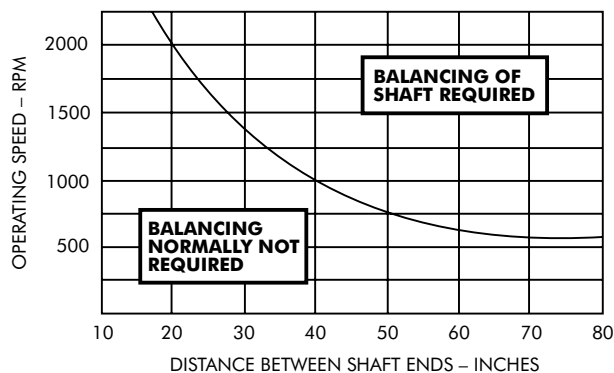
Type G52 Standard Flanged Sleeve Floating Shafts/Dimensions — Inches

A standard floating shaft assembly consists of two standard single engagement couplings, two gap discs and a connecting shaft.

A floating shaft can eliminate the need for additional bearing supports along spanning shaft because shaft is supported at ends by connected equipment through the single engagement couplings.

Flex Hubs on Floating Shaft (RFFR)

Assembly of the flex hubs on the floating shaft allows for easier replacement in case of wear and allows the rigid hubs with their increased bore capacity to be used on the connected equipment shafts. This frequently means a smaller coupling size can be used.



Rigid Hubs on Floating Shaft (FRRF)

When the rigid hubs are on the floating shaft, shorter shaft spans can be accommodated, since no cover drawback is required. Since the flex hubs are outboard, the points of articulation are further apart, providing greater offset misalignment capacity.

Solid Floating Shaft Selection

Single Engagement Type G52/GV52 couplings are used with floating shafts in either horizontal or vertical applications. For vertical applications select a Type GV coupling for the lower coupling assembly. Select floating shafts as follows:

1. Use the Standard or Formula Selection Methods, [Pages 10-11](#) to select the couplings. Record the System Torque from standard selection method or Selection Torque from formula selection method.
2. From table below select a shaft diameter that has an assembly torque rating equal to or greater than the system or selection torque determined in coupling selection.
3. Check maximum "BE" for the shaft diameter selected and running speed for shaft length required from table below. Refer to graph at left to determine if shaft requires balancing.
4. If the application shaft length exceeds the maximum "BE" listed, select the next larger shaft diameter or the next larger size coupling. Consult Falk for higher speeds or longer shaft lengths than listed below.

SIZE ★	Assembly Torque Rating ♦ lb-in	Floating Shaft										
		SB Shaft End Diameter	SD Shaft Diameter	Wt-lbs per inch	WR ² lb-in ² per inch	Maximum BE for Various RPM's ▲						
						1750	1430	1170	870	720	580	540 or Less
1010G	4,370	1.500	1.562	.54	.17	54	60	66	77	85	94	97
	10,080	1.875	2.000	.89	.45	61	68	75	87	96	107	110
1015G	10,350	2.000	2.125	1.00	.57	63	70	77	90	99	110	113
	20,790	2.375	2.500	1.39	1.09	69	76	84	97	107	119	123
1020G	20,200	2.500	2.625	1.53	1.32	70	78	86	100	110	122	126
	37,800	2.875	3.000	2.00	2.25	75	83	92	107	117	131	135
1025G	39,500	3.125	3.250	2.35	3.10	78	87	96	111	122	136	140
	66,150	3.625	3.750	3.13	5.50	84	93	103	119	131	146	151
1030G	75,300	3.875	4.000	3.56	7.12	87	96	106	123	136	151	156
	107,100	4.125	4.250	4.02	9.07	89	99	110	127	140	156	160
1035G	118,000	4.500	4.750	5.02	14.16	95	105	116	134	148	165	169
	163,800	4.875	5.000	5.56	17.38	97	107	119	138	152	169	174
1040G	215,300	5.500	5.750	7.36	30.40	104	115	128	148	163	181	187
	270,900	5.750	6.000	8.01	36.05	106	118	130	151	166	185	191
1045G	279,500	6.000	6.500	9.40	49.65	111	123	136	157	173	193	198
	371,700	6.750	8.000	14.24	113.92	123	136	150	175	192	214	220
1050G	335,300	6.375	6.500	9.40	49.65	111	123	136	157	173	193	198
	500,900	7.375	8.000	14.24	113.92	123	136	150	175	192	214	220
1055G	335,300	6.375	6.500	9.40	49.65	111	123	136	157	173	193	198
	655,200	7.875	8.000	14.24	113.92	123	136	150	175	192	214	220
1060G	632,000	7.875	8.000	14.24	113.92	123	136	150	175	192	214	220
	800,100	8.500	8.560	16.30	149.33	127	141	156	181	199	221	228
1070G	632,000	7.875	8.000	14.24	113.92	123	136	150	175	192	214	220
	1,197,000	9.500	9.560	20.34	232.31	134	149	165	191	210	234	241

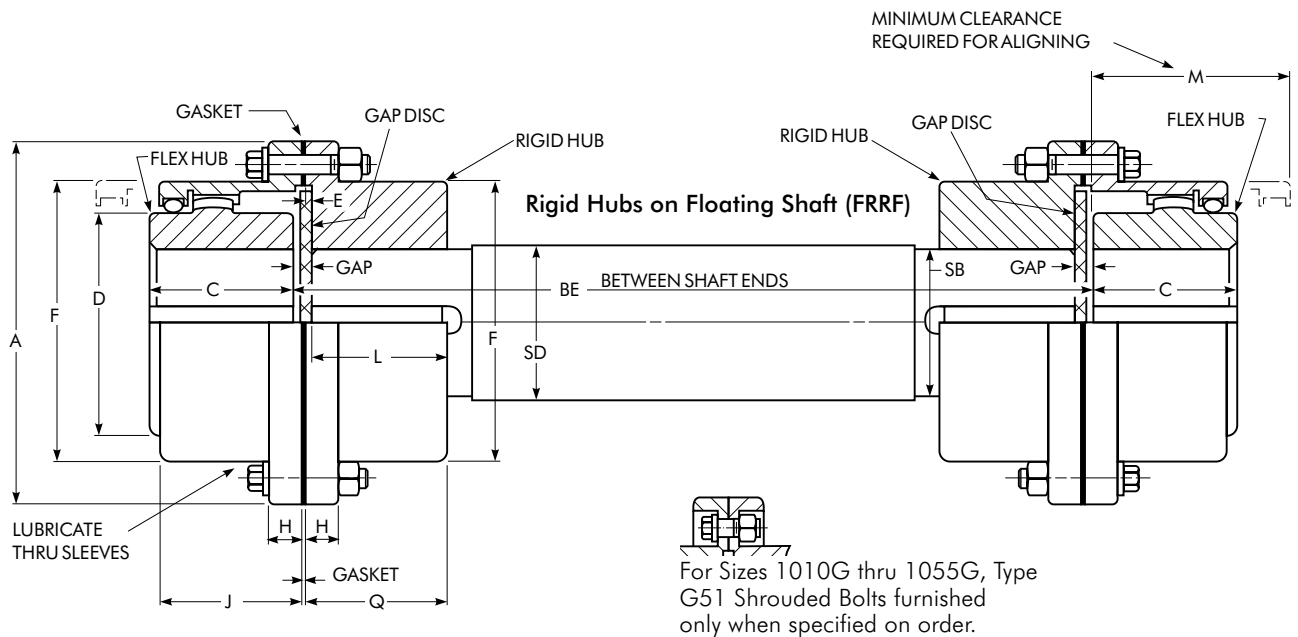
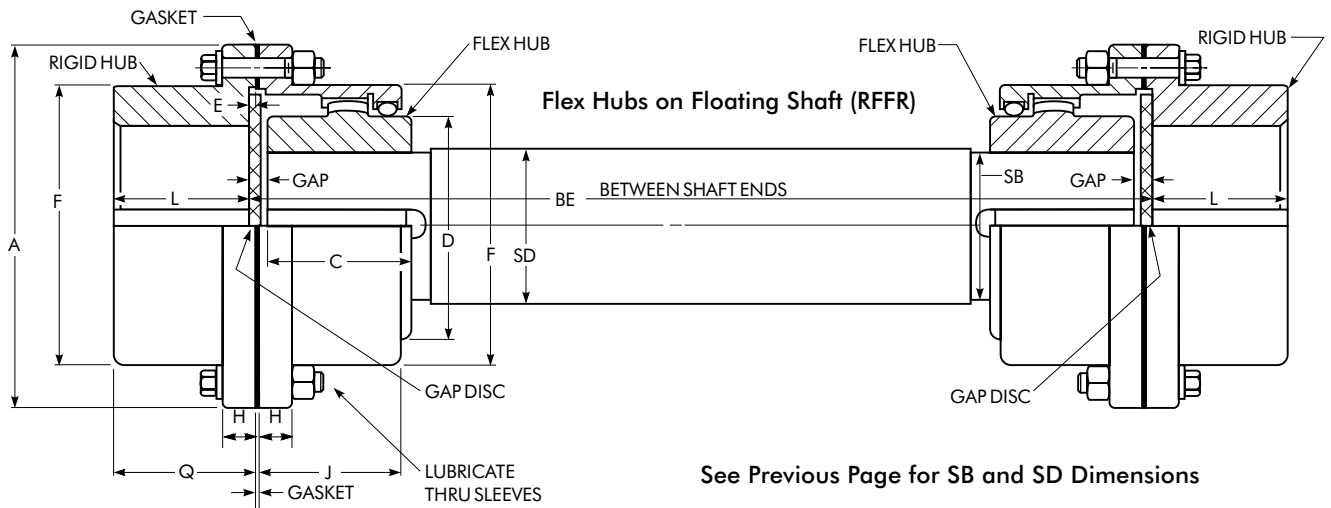
★ See Page 13 for General Information and other Reference Notes.

♦ Assembly torque rating is limited by coupling size, shaft end diameter or both.

▲ Interpolate for intermediate speeds. Maximum BE is based on 70% of critical speed. Refer to Falk for higher running speeds.

Type G52 Standard Flanged Sleeve

Floating Shaft/Dimensions — Inches

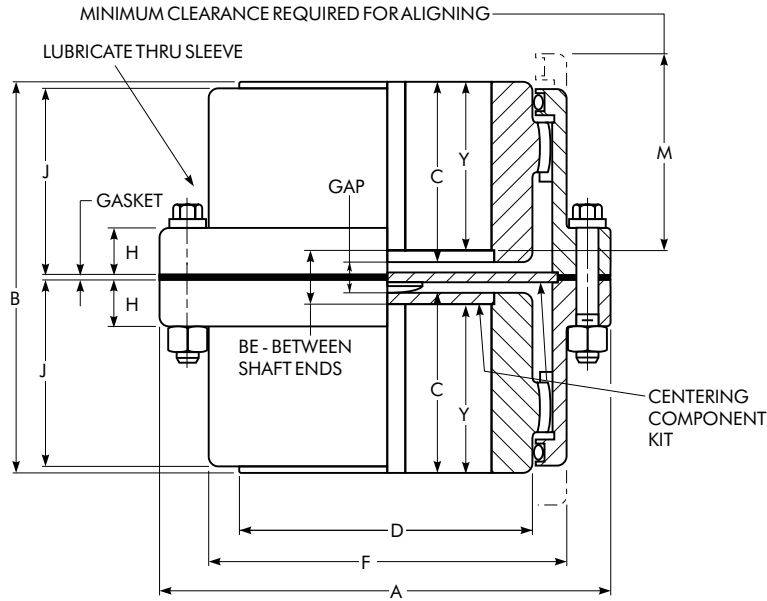


SIZE ★	Max Bore ●		Min Bore ■	Wt—One Cplg No Bore—lb		Lube Wt Per Cplg lb	A	BE Min		C	D	E	F	H	J	L	M	Q	Gap	SIZE ★
	Flex Hub	Rigid Hub		G51	G52			RFFR	FRRF											
1010G	1.875	2.375	.50	9	10	.05	4.56	5.25	3.62	1.69	2.70	.10	3.30	.55	1.53	1.56	1.90	1.66	.156	1010G
1015G	2.375	2.938	.75	18	20	.09	6.00	6.25	4.12	1.94	3.40	.10	4.14	.75	1.88	1.82	2.20	1.92	.156	1015G
1020G	2.875	3.625	1.00	30	35	.15	7.00	7.75	5.06	2.44	4.14	.10	4.98	.75	2.34	2.30	2.70	2.40	.156	1020G
1025G	3.625	4.375	1.25	55	60	.26	8.38	9.50	6.38	3.03	5.14	.10	6.10	.86	2.82	2.90	3.20	3.00	.188	1025G
1030G	4.125	5.125	1.50	85	95	.40	9.44	11.00	7.44	3.59	6.00	.10	7.10	.86	3.30	3.46	3.70	3.56	.188	1030G
1035G	4.875	5.875	2.00	135	150	.60	11.00	12.75	8.62	4.19	7.00	.10	8.32	1.12	3.84	4.02	4.20	4.12	.218	1035G
1040G	5.750	7.250	2.50	200	220	1.03	12.50	16.50	9.75	4.75	8.25	.16	9.66	1.12	4.38	4.54	4.80	4.70	.281	1040G
1045G	6.750	8.125	3.00	285	300	1.25	13.62	20.00	11.06	5.31	9.25	.16	10.79	1.12	4.84	5.14	5.30	5.30	.312	1045G
1050G	7.375	9.000	3.50	400	430	2.00	15.31	21.00	12.44	6.03	10.00	.20	12.04	1.50	5.54	5.80	6.00	6.00	.344	1050G
1055G	8.250	10.000	4.00	555	580	2.50	16.75	22.50	14.44	6.62	11.00	.20	13.16	1.50	6.22	6.80	6.80	7.00	.344	1055G
1060G	9.125	11.000	4.50	...	715	3.75	18.00	23.50	15.62	7.41	12.00	.26	14.41	1.00	6.66	7.34	7.20	7.60	.406	1060G
1070G	10.875	13.000	5.00	...	1120	5.00	20.75	26.50	18.50	8.69	14.00	.33	16.73	1.12	7.70	8.67	8.20	9.00	.500	1070G

★ See Page 13 for General information and other Reference Notes.

Type GV20 Standard Flanged Sleeve

Vertical Double Engagement/Dimensions — Inches



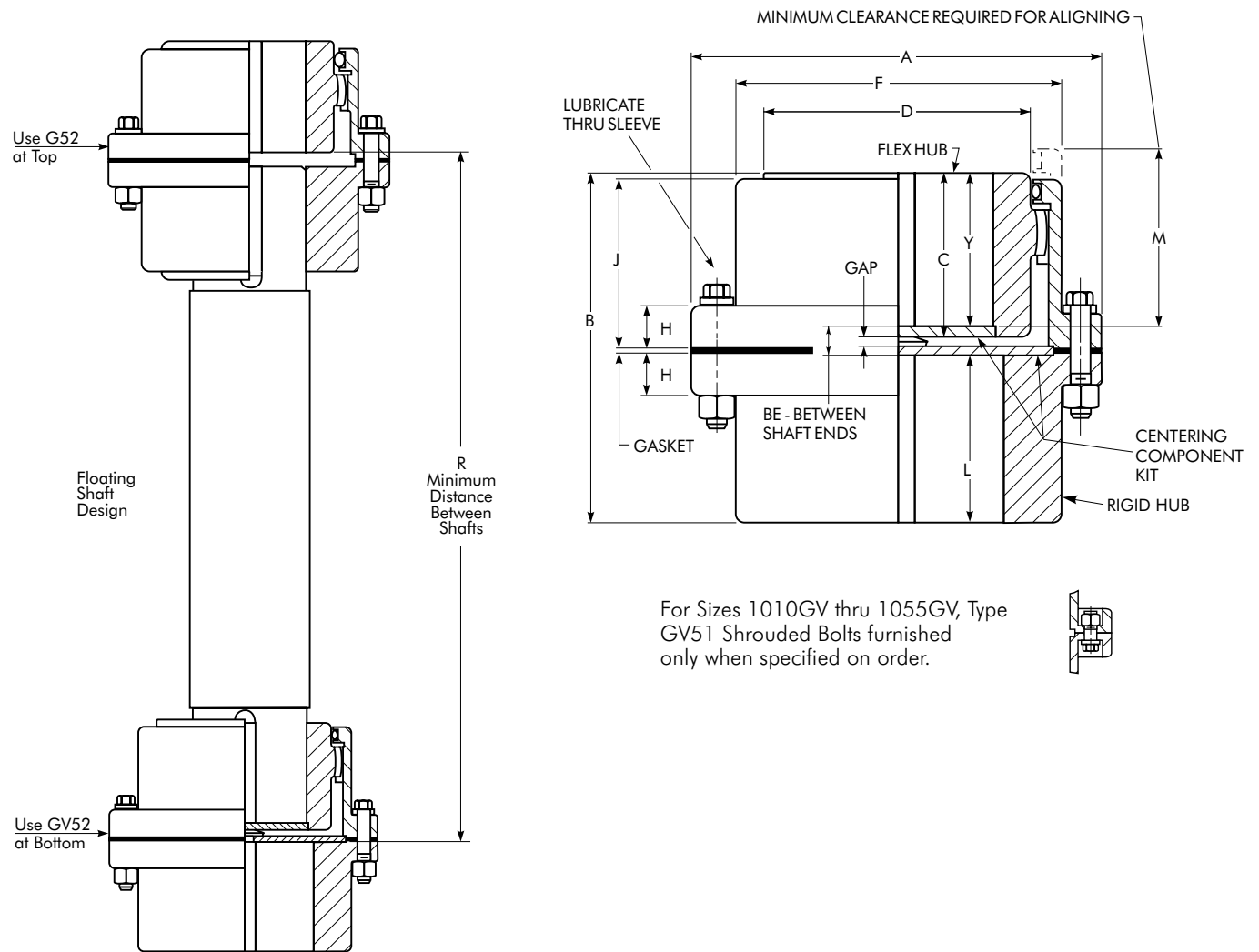
For Sizes 1010GV thru 1055GV, Type GV10 Shrouded Bolts furnished only when specified on order.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •	Min Bore ■	Cplg Wt With No Bore-lb		Lube Wt lb	A	B	C	D	F	H	J	M	Y	BE	Gap	SIZE ★
					GV10	GV20													
1010GV	10,080	8,000	1.875	.50	8	9	.18	4.56	3.50	1.53	2.70	3.30	.55	1.53	1.80	1.28	.94	.438	1010GV
1015GV	20,790	6,500	2.375	.75	17	19	.30	6.00	3.98	1.77	3.40	4.14	.75	1.88	2.20	1.52	.94	.438	1015GV
1020GV	37,800	5,600	2.875	1.00	30	32	.50	7.00	4.98	2.27	4.14	4.98	.75	2.34	2.80	2.02	.94	.438	1020GV
1025GV	66,150	5,000	3.625	1.25	52	58	.90	8.38	6.20	2.82	5.14	6.10	.86	2.82	3.40	2.57	1.06	.562	1025GV
1030GV	107,100	4,400	4.125	1.50	80	90	1.40	9.44	7.34	3.39	6.00	7.10	.86	3.30	4.00	3.14	1.06	.562	1030GV
1035GV	163,800	3,900	4.875	2.00	130	145	2.20	11.00	8.59	3.95	7.00	8.32	1.12	3.84	4.90	3.70	1.19	.688	1035GV
1040GV	270,900	3,600	5.750	2.50	195	215	3.20	12.50	9.72	4.42	8.25	9.66	1.12	4.38	5.50	4.17	1.38	.875	1040GV
1045GV	371,700	3,200	6.750	3.00	270	290	4.40	13.62	10.90	4.95	9.25	10.79	1.12	4.84	6.20	4.58	1.74	1.000	1045GV
1050GV	500,900	2,900	7.375	3.50	380	410	6.30	15.31	12.34	5.67	10.00	12.04	1.50	5.54	6.90	5.30	1.74	1.000	1050GV
1055GV	655,200	2,650	8.250	4.00	510	535	8.00	16.75	13.52	6.26	11.00	13.16	1.50	6.22	7.70	5.89	1.74	1.000	1055GV
1060GV	800,100	2,450	9.125	4.50	...	665	10.60	18.00	15.12	7.00	12.00	14.41	1.00	6.66	8.70	6.62	1.88	1.125	1060GV
1070GV	1,197,000	2,150	10.875	5.00	...	1050	15.60	20.75	17.74	8.18	14.00	16.73	1.12	7.70	10.00	7.67	2.40	1.375	1070GV

★ See Page 13 for General Information and other Reference Notes.

Type GV52 Standard Flanged Sleeve

Vertical Single Engagement/Dimensions — Inches



SIZE ★	Torque Rating (lb-in) ♦†	Allow Speed rpm *	Max Bore •		Min Bore ■	Cplg Wt With No Bore-lb		Lube Wt lb	A	B	C	D	F	H	J	L	M	R	Y	BE	Gap	SIZE ★
			Flex Hub	Rigid Hub		GV51	GV52															
1010GV	10,080	7,000	1.875	2.375	.50	9	10	.08	4.56	3.42	1.53	2.70	3.30	.55	1.53	1.56	1.80	5.18	1.28	.580	.140	1010GV
1015GV	20,790	5,500	2.375	2.938	.75	18	20	.12	6.00	3.92	1.77	3.40	4.14	.75	1.88	1.82	2.20	6.00	1.52	.580	.140	1015GV
1020GV	37,800	4,600	2.875	3.625	1.00	32	35	.20	7.00	4.90	2.27	4.14	4.98	.75	2.34	2.30	2.80	7.20	2.02	.580	.140	1020GV
1025GV	66,150	4,000	3.625	4.375	1.25	55	60	.40	8.38	6.11	2.82	5.14	6.10	.86	2.82	2.90	3.40	8.57	2.57	.640	.200	1025GV
1030GV	107,100	3,600	4.125	5.125	1.50	85	95	.60	9.44	7.24	3.39	6.00	7.10	.86	3.30	3.46	4.00	9.75	3.14	.640	.200	1030GV
1035GV	163,800	3,100	4.875	5.875	2.00	135	150	1.00	11.00	8.43	3.95	7.00	8.32	1.12	3.84	4.02	4.90	11.73	3.70	.710	.260	1035GV
1040GV	270,900	2,800	5.750	7.250	2.50	205	225	1.50	12.50	9.58	4.42	8.25	9.66	1.12	4.38	4.54	5.50	13.40	4.17	.865	.300	1040GV
1045GV	371,700	2,600	6.750	8.125	3.00	285	305	2.00	13.62	10.77	4.95	9.25	10.79	1.12	4.84	5.14	6.20	15.28	4.58	1.050	.360	1045GV
1050GV	500,900	2,400	7.375	9.000	3.50	405	435	3.00	15.31	12.19	5.67	10.00	12.04	1.50	5.54	5.80	6.90	16.68	5.30	1.090	.315	1050GV
1055GV	655,200	2,200	8.250	10.000	4.00	560	585	3.70	16.75	13.78	6.26	11.00	13.16	1.50	6.22	6.80	7.70	18.28	5.89	1.090	.315	1055GV
1060GV	800,100	2,100	9.125	11.000	4.50	...	860	5.00	18.00	15.18	7.00	12.00	14.41	1.00	6.66	7.34	8.70	20.56	6.62	1.215	.315	1060GV
1070GV	1,197,000	1,800	10.875	13.000	5.00	...	1140	7.20	20.75	17.88	8.18	14.00	16.73	1.12	7.70	8.67	10.00	24.22	7.67	1.540	.380	1070GV

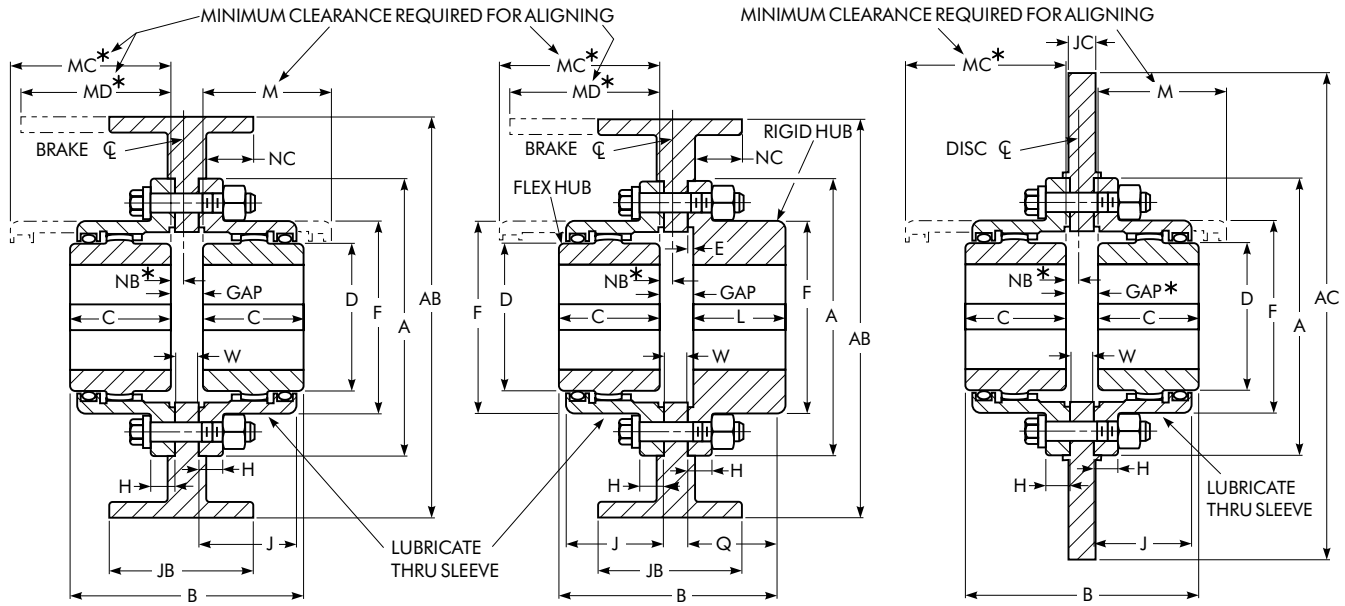
★ See Page 13 for General Information and other Reference Notes.

♦ Torque Rating is for coupling only, refer to Page 20 for floating shaft selection and ratings.

* Allowable speed listed is for GV52 coupling only, refer to Page 20 for floating shaft selection and running speed.

Types G62, G63 & G66 Standard Flanged Sleeve Brakewheel/Disc Brake/Dimensions — Inches

Straight Bores — Wheel Sizes 7" Diameter & Larger



Double Engagement Type G62

Single Engagement Type G66

Double Engagement Type G63▲

Brake-wheel Size ♦	CPLG SIZE ★	Brake Rating of Coupling (ft-lb)	Max Straight Bore •		Min Bore ■	Coupling Wt No Bore-lb Less Wheel		Lube Wt-lb		A	B		C	D	E	F	H	J	L	M	Q	W	Gap	
			Flex Hub	Rigid Hub		G62 G63	G66	G62 G63	G66		G62 G63	G66 With Std Length Hubs											G62 G63	G66
7	1010G	185	1.875	2.375	.50	10	10	.10	.06	4.56	3.88	3.79	1.69	2.70	.10	3.30	.55	1.53	1.56	2.00	1.66	.38	.500	.536
8	1015G	420	2.375	2.938	.75	20	20	.20	.12	6.00	4.50	4.42	1.94	3.40	.10	4.14	.75	1.88	1.82	2.40	1.92	.50	.625	.656
9.62	1020G	775	2.875	3.625	1.00	35	35	.30	.20	7.00	5.50	5.40	2.44	4.14	.10	4.98	.75	2.34	2.30	3.00	2.40	.50	.625	.656
11.38	1025G	1400	3.625	4.375	1.25	65	60	.60	.35	8.38	6.81	6.68	3.03	5.14	.10	6.10	.86	2.82	2.90	3.60	3.00	.56	.750	.748
12.62	1030G	2300	4.125	5.125	1.50	95	95	.90	.50	9.44	7.93	7.80	3.59	6.00	.10	7.10	.86	3.30	3.46	4.20	3.56	.56	.750	.748
14.62	1035G	3550	4.875	5.875	2.00	150	150	1.25	.75	11.00	9.38	9.18	4.19	7.00	.10	8.32	1.12	3.84	4.02	5.10	4.12	.75	1.000	.968
16.88	1040G	5400	5.750	7.250	2.50	215	220	2.00	1.20	12.50	10.50	10.31	4.75	8.25	.16	9.66	1.12	4.38	4.54	5.70	4.70	.75	1.000	1.031
18	1045G	7400	6.750	8.125	3.00	300	300	2.50	1.40	13.62	11.68	11.50	5.31	9.25	.16	10.79	1.12	4.84	5.14	6.50	5.30	.75	1.062	1.062
19.38	1050G	10000	7.375	9.000	3.50	420	430	4.12	2.50	15.31	13.37	13.17	6.03	10.00	.20	12.04	1.50	5.54	5.80	7.20	6.00	1.00	1.312	1.344
20.88	1055G	13125	8.250	10.000	4.00	550	580	5.12	3.00	16.75	14.56	14.76	6.62	11.00	.20	13.16	1.50	6.22	6.80	8.00	7.00	1.00	1.312	1.344
23	1060G	17000	9.125	11.000	4.50	675	715	7.50	4.25	18.00	16.12	16.16	7.41	12.00	.26	14.41	1.00	6.66	7.34	9.00	7.60	1.00	1.312	1.406
26	1070G	24700	10.875	13.000	5.00	1070	1120	9.80	5.75	20.75	18.75	18.86	8.69	14.00	.33	16.73	1.12	7.70	8.67	10.50	9.00	1.00	1.375	1.500

★ See Page 13 for General Information and other Reference Notes.

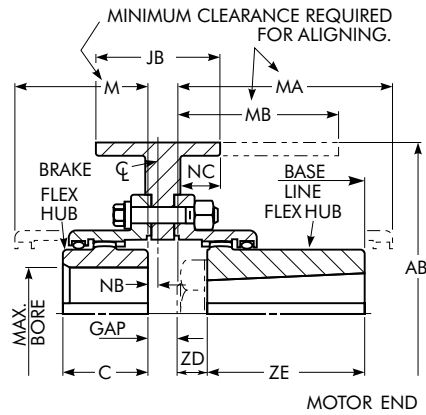
♦ Maximum rim velocity is 6000 feet per minute. Brakewheel must be balanced if peripheral speed exceeds 6000 feet per minute.

★ Dimensions and allowable speed vary with application; consult Falk.

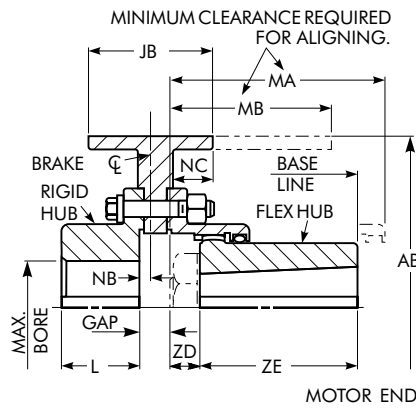
▲ Dimensions AC and JC depend upon customer caliper specifications.

Types G62/G66 Standard Flanged Sleeve Brakewheel (for AISE Brakes)/Dimensions — Inches

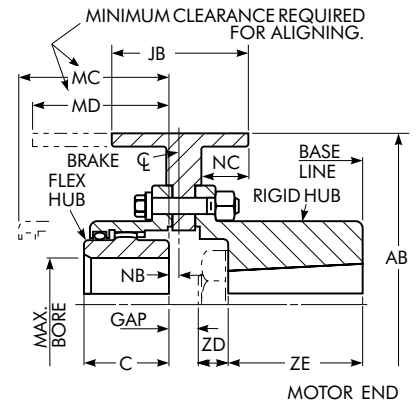
Taper Bores — Wheel Sizes 8" – 30" Diameter & Larger



Double Engagement Type G62
(One Hub Taper Bored)
Figure 1



Single Engagement Type G66
(Flex Hub Taper Bored)
Figure 2



Single Engagement Type G66
(Rigid Hub Taper and C' Bored)
Figure 3

Brakewheel Dia. x Face ↓ Dimensions AB x JB	Wheel Drawing Number	CPLG SIZE ★	Mill Motor Size	Allow Speed rpm ▲	Brake Rating lb-ft	Brake Manufacturer & Catalog Number				C	L	M	MA MB Max	MC MD Max	NB		NC	ZD	ZE	Gap	
						C-H Co.	E.C. & M.	G.E.	West						Fig 1 & 3	Fig 2					
																				Fig 1	Fig 2 & 3
8 x 3.25	330155	1015G	802	2,860	100	8	T-08	A100	TM83	1.94	1.82	2.40	4.50	2.90	.56	.61	1.47	.94	3.00	.625	.660
10 x 3.75	330156	1015G	803,804	2,290	200	10	T-10	A101	TM1035	1.94	1.82	2.40	5.00	2.90	.88	.92	2.03	1.00	3.50	.625	.660
13 x 5.75	330158	1020G	806	1,760	550	13	T-13	A102	TM1355	2.44	2.30	3.00	5.62	3.50	.75	.80	2.91	1.13	4.00	.625	.660
13 x 5.75	330159	1025G	808	1,760	550	13	T-13	A102	TM1355	3.03	2.90	3.60	6.25	4.10	1.12	1.14	3.19	1.25	4.50	.750	.750
16 x 6.75	330160	1025G	810	1,430	1000	16	T-16	A103	TM1665	3.03	2.90	3.60	6.38	4.72	.12 *	.14	2.69	1.38	4.50	.750	.750
19 x 8.75	330162	1030G	812	1,200	2000	19	T-19	A104	TM1985	3.59	3.46	4.20	7.00	5.88	.25 *	.23	3.31	1.50	5.00	.750	.750
19 x 8.75	330163	1035G	814	1,200	2000	19	T-19	A104	TM1985	4.19	4.02	5.10	7.12	6.58	.12	.12	3.47	1.63	5.00	1.000	.980
23 x 11.25	330164	1040G	816	995	4000	23	T-23	A105	TM2311	4.75	4.54	5.70	8.20	7.82	0	.05	4.59	1.75	5.50	1.000	1.050
23 x 11.25	330165	1040G	818	995	4000	23	T-23	A105	TM2311	4.75	4.54	5.70	8.31	8.26	.44 *	.39 *	4.16	1.31	6.00	1.000	1.050
30 x 14.25	330166	1050G	820	765	9000	30	...	...	...	6.03	5.80	7.20	8.50	10.63	.44 *	.37 *	5.38	1.75	6.75	1.312	1.360
30 x 14.25	330167	1050G	822	765	9000	30	...	...	...	6.03	5.80	7.20	9.62	9.76	.19	.25	6.00	2.37	7.25	1.312	1.360

★ See Page 13 for General Information and other Reference Notes.

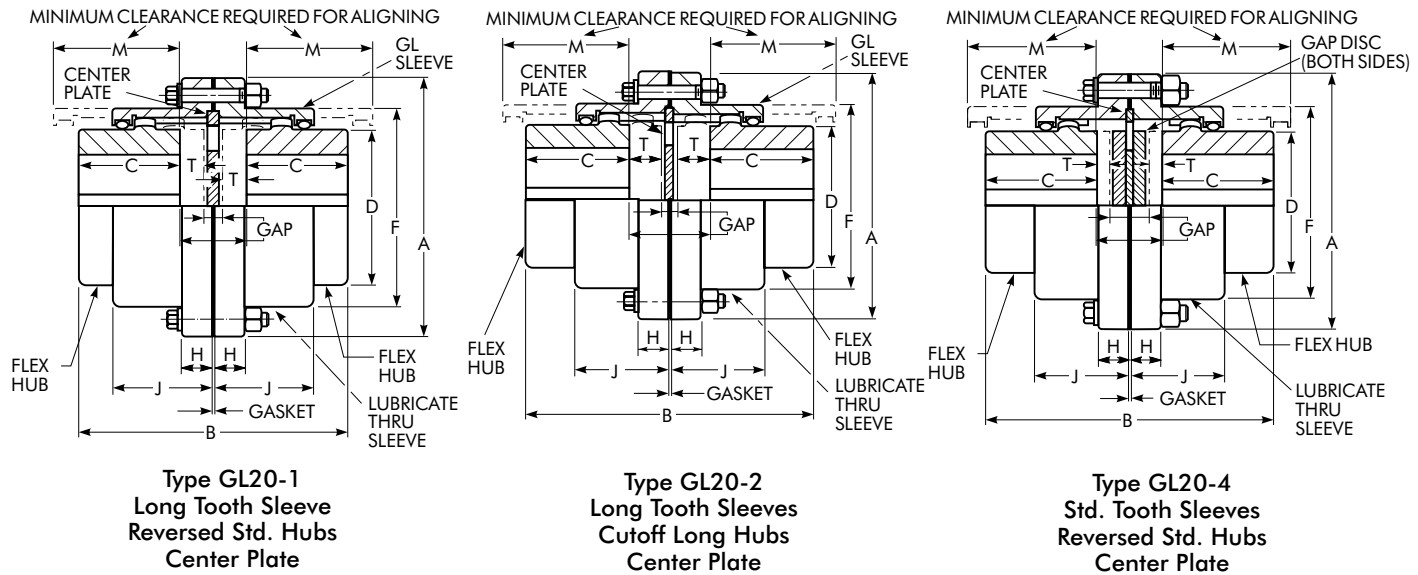
♦ For standard AISE and 600 series brakes, refer to Table 6, Page 34.

▲ Based on maximum rim velocity of 6000 feet per minute.

* Symbol indicates that Dimension NB and the brakewheel centerline are to the left of the hub face.

Type GL20 Standard Flanged Sleeve

Slide Double Engagement/Dimensions — Inches



Choosing an Assembly

Select the assembly that provides a Total "T" dimension from the table below equal to the application requirements.

GL20-1 Moderate slide capacity, moderate price.

GL20-2 Greatest slide capacity, highest price.

GL20-4 Least slide capacity, lowest price.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •	Min Bore ■	Cplg Wt with No Bore-lb	Lube Wt lb	A	C	D	F	H	J	SIZE ★
1010GL	10,080	5,300	1.875	.50	10	.05	4.56	1.69	2.70	3.30	.55	1.53	1010GL
1015GL	20,790	4,300	2.375	.75	20	.08	6.00	1.94	3.40	4.14	.75	1.88	1015GL
1020GL	37,800	3,700	2.875	1.00	35	.14	7.00	2.44	4.14	4.98	.75	2.34	1020GL
1025GL	66,150	3,300	3.625	1.25	65	.25	8.38	3.03	5.14	6.10	.86	2.82	1025GL
1030GL	107,100	2,900	4.125	1.50	90	.40	9.44	3.59	6.00	7.10	.86	3.30	1030GL
1035GL	163,800	2,600	4.875	2.00	150	.60	11.00	4.19	7.00	8.32	1.12	3.84	1035GL
1040GL	270,900	2,400	5.750	2.50	220	1.00	12.50	4.75	8.25	9.66	1.12	4.38	1040GL
1045GL	371,700	2,100	6.750	3.00	300	1.12	13.62	5.31	9.25	10.79	1.12	4.84	1045GL
1050GL	500,900	1,900	7.375	3.50	425	2.00	15.31	6.03	10.00	12.04	1.50	5.54	1050GL
1055GL	655,200	1,800	8.250	4.00	560	2.50	16.75	6.62	11.00	13.16	1.50	6.22	1055GL
1060GL	800,100	1,600	9.125	4.50	700	3.50	18.00	7.41	12.00	14.41	1.00	6.66	1060GL
1070GL	1,197,000	1,400	10.875	5.00	1100	4.80	20.75	8.69	14.00	16.73	1.12	7.70	1070GL

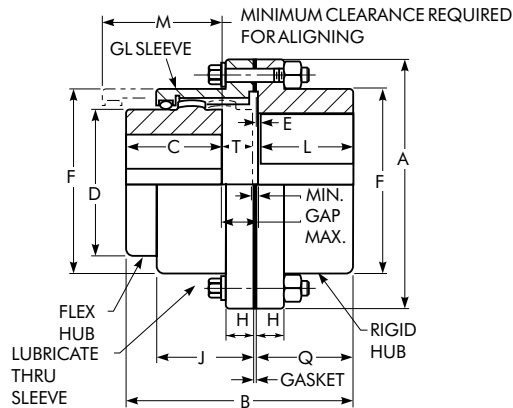
SIZE ★	Type GL20-1						Type GL20-2						Type GL20-4 ♦					
	B Max	M	T (Max)		Gap		B Max	M	T (Max)		Gap		B Max	M	T (Max)		Gap	
			Each	Total	Min	Max			Each	Total	Min	Max			Each	Total	Min	Max
1010GL	3.79	2.12	.05	.10	.31	.41	4.97	2.30	.64	1.28	.31	1.59	3.79	2.12	.08	.17	.24	.41
1015GL	5.01	2.35	.41	.82	.31	1.13	6.01	2.70	.91	1.82	.31	2.13	5.01	2.35	.29	.59	.54	1.13
1020GL	5.93	3.04	.37	.74	.31	1.05	7.33	3.30	1.07	2.14	.31	2.45	5.93	3.04	.39	.79	.26	1.05
1025GL	7.39	3.68	.48	.96	.37	1.33	9.11	4.00	1.34	2.68	.37	3.05	7.39	3.68	.24	.49	.84	1.33
1030GL	8.95	4.26	.70	1.40	.37	1.77	10.37	3.60	1.41	2.82	.37	3.19	8.95	4.26	.45	.91	.86	1.77
1035GL	10.77	4.90	.97	1.94	.45	2.39	12.39	4.10	1.78	3.56	.45	4.01	10.77	4.90	.55	1.10	1.29	2.39
1040GL	12.61	5.46	1.27	2.54	.57	3.11	14.27	4.70	2.10	4.20	.57	4.77	12.61	5.46	.64	1.28	1.83	3.11
1045GL	13.99	6.08	1.37	2.74	.63	3.37	15.97	5.10	2.36	4.72	.63	5.35	13.99	6.08	.76	1.52	1.85	3.37
1050GL	16.07	6.91	1.65	3.30	.71	4.01	18.09	5.90	2.66	5.32	.71	6.03	16.07	6.91	.81	1.63	2.38	4.01
1055GL	18.51	7.51	2.28	4.56	.71	5.27	20.09	6.60	3.07	6.14	.71	6.85	18.51	7.51	.83	1.66	3.61	5.27
1060GL	19.83	8.33	2.09	4.18	.83	5.01	22.17	7.20	3.26	6.52	.83	7.35	19.83	8.33	.97	1.95	3.06	5.01
1070GL	23.30	9.66	2.44	4.88	1.04	5.92	26.16	8.30	3.87	7.74	1.04	8.78	23.30	9.66	1.06	2.13	3.79	5.92

★ See Page 13 for General Information and other Reference Notes.

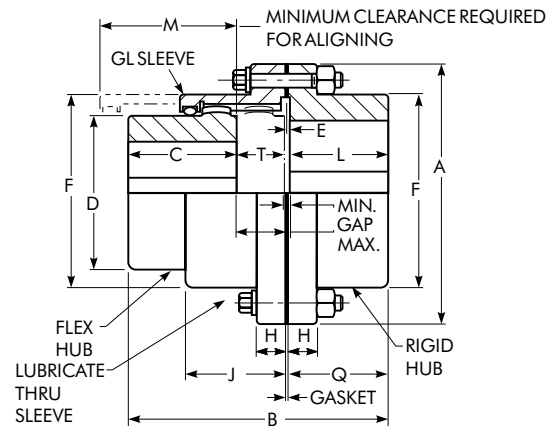
♦ Gap discs are not required for Sizes 1010 and 1020GL.

Type GL52 Standard Flanged Sleeve

Slide Single Engagement/Dimensions — Inches



Type GL52-1 Long Tooth Sleeve
Reversed Std. Hub



Type GL52-2 Long Tooth Sleeve
Cutoff Long Hub

Choosing an Assembly

Select the assembly that provides a Total "T" dimension from the table below equal to the application requirements.

GL52-1 — Moderate slide capacity, moderate price.

GL52-2 — Greatest slide capacity, highest price.

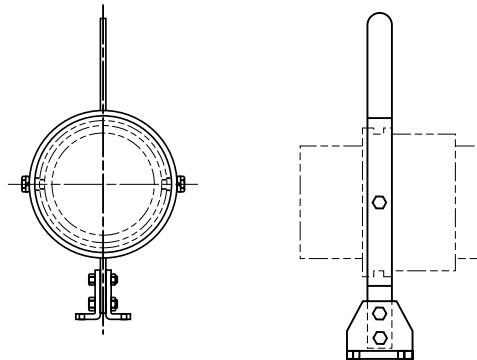
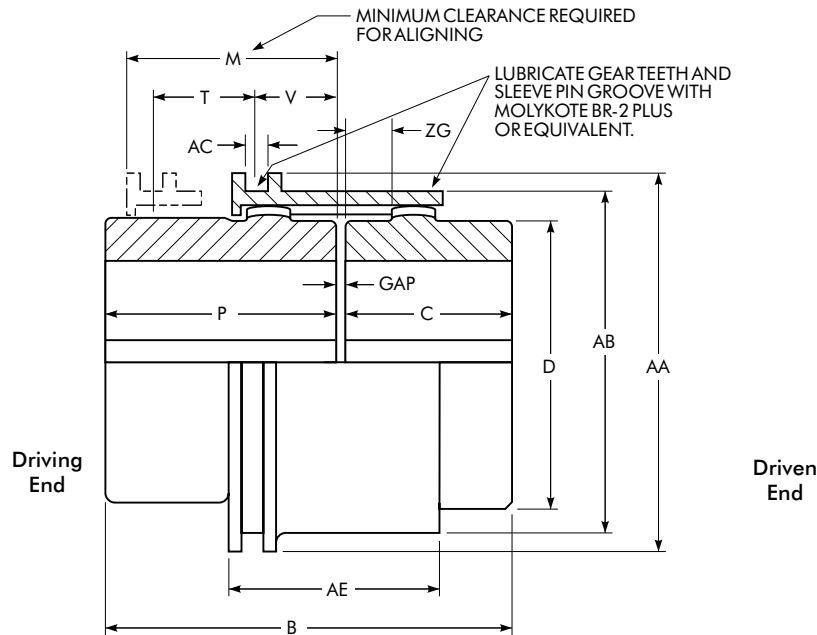
SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •		Min Bore ■	Cplg Wt with No Bore-lb	Lube Wt lb	A	C	D	E	F	H	J	L	Q	SIZE ★
			Flex Hub	Rigid Hub													
1010GL	10,080	5,300	1.875	2.375	.50	10	.30	4.56	1.69	2.70	.10	3.30	.55	1.53	1.56	1.66	1010GL
1015GL	20,790	4,300	2.375	2.938	.75	20	.05	6.00	1.94	3.40	.10	4.14	.75	1.88	1.82	1.92	1015GL
1020GL	37,800	3,700	2.875	3.625	1.00	35	.08	7.00	2.44	4.14	.10	4.98	.75	2.34	2.30	2.40	1020GL
1025GL	66,150	3,300	3.625	4.375	1.25	65	.14	8.38	3.03	5.14	.10	6.10	.86	2.82	2.90	3.00	1025GL
1030GL	107,100	2,900	4.125	5.125	1.50	95	.25	9.44	3.59	6.00	.10	7.10	.86	3.30	3.46	3.56	1030GL
1035GL	163,800	2,600	4.875	5.875	2.00	150	.40	11.00	4.19	7.00	.10	8.32	1.12	3.84	4.02	4.12	1035GL
1040GL	270,900	2,400	5.750	7.250	2.50	220	.60	12.50	4.75	8.25	.16	9.66	1.12	4.38	4.54	4.70	1040GL
1045GL	371,700	2,100	6.750	8.125	3.00	300	.75	13.62	5.31	9.25	.16	10.79	1.12	4.84	5.14	5.30	1045GL
1050GL	500,900	1,900	7.375	9.000	3.50	430	1.20	15.31	6.03	10.00	.20	12.04	1.50	5.54	5.80	6.00	1050GL
1055GL	655,200	1,800	8.250	10.000	4.00	580	1.60	16.75	6.62	11.00	.20	13.16	1.50	6.22	6.80	7.00	1055GL
1060GL	800,100	1,600	9.125	11.000	4.50	715	2.12	18.00	7.41	12.00	.26	14.41	1.00	6.66	7.34	7.60	1060GL
1070GL	1,197,000	1,400	10.875	13.000	5.00	1125	3.00	20.75	8.69	14.00	.33	16.73	1.12	7.70	8.67	9.00	1070GL

★ See Page 13 for General Information and Reference Notes.

SIZE ★	Type GL52-1					Type GL52-2				
	B Max	M	T Max	Gap		B Max	M	T Max	Gap	
				Min	Max				Min	Max
1010GL	3.55	2.12	.14	.16	.30	4.14	2.30	.73	.16	.89
1015GL	4.42	2.35	.50	.16	.66	4.92	2.70	1.00	.16	1.16
1020GL	5.36	3.34	.46	.16	.62	6.06	3.30	1.16	.16	1.32
1025GL	6.68	3.68	.57	.19	.76	7.55	4.00	1.43	.19	1.62
1030GL	8.03	4.26	.79	.19	.98	8.74	3.60	1.50	.19	1.69
1035GL	9.50	4.90	1.07	.22	1.29	10.31	4.10	1.88	.22	2.10
1040GL	11.00	5.46	1.43	.28	1.71	11.83	4.70	2.26	.28	2.54
1045GL	12.39	6.08	1.53	.31	1.84	13.30	5.10	2.52	.31	2.83
1050GL	14.02	6.91	1.85	.34	2.19	15.03	5.90	2.86	.34	3.20
1055GL	16.24	7.51	2.48	.34	2.82	17.03	6.60	3.27	.34	3.61
1060GL	17.51	8.33	2.35	.41	2.76	18.68	7.20	3.52	.41	3.93
1070GL	20.63	9.66	2.77	.50	3.27	22.06	8.30	4.20	.50	4.70

Type G70

Disconnect (Inching Drives)/Dimensions — Inches



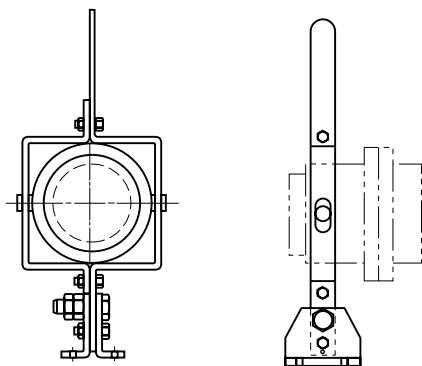
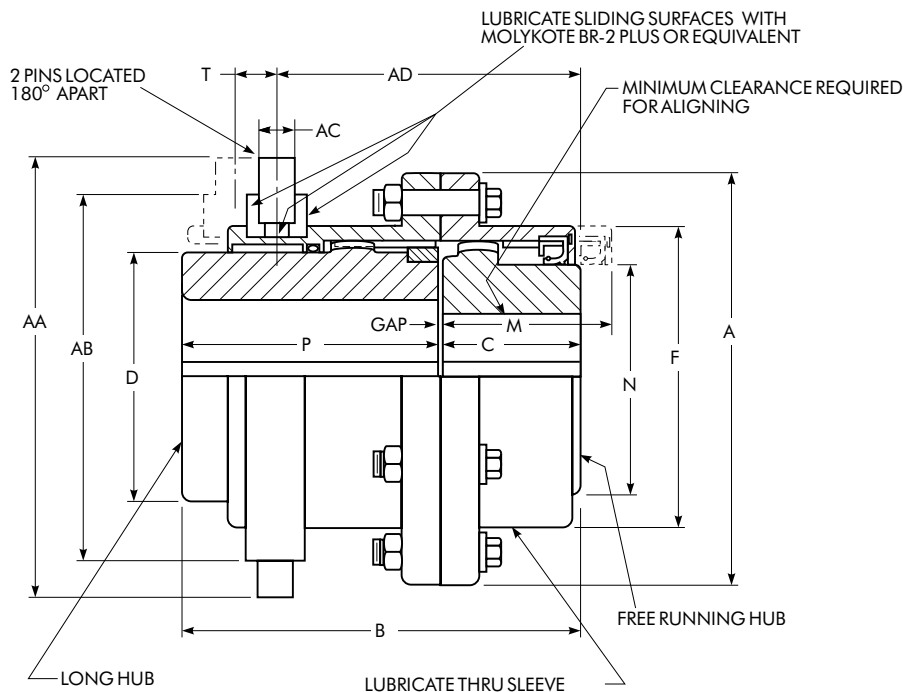
Optional hand operated shifter mechanism to shift and secure the proper position of the sleeve assembly.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •	Min Bore ■	Cplg Wt With No Bore-lb	B	C	D	M	P	T	V	AA	AB	AC	AE	ZG	Gap	SIZE ★
1010G	10,080	630	1.875	.50	9	4.56	1.69	2.70	2.74	2.74	1.18	.86	3.82	3.30	.32	2.36	.58	.125	1010G
1015G	20,790	500	2.375	.75	15	4.76	1.94	3.40	2.70	2.70	1.16	.84	4.76	4.23	.32	2.32	.50	.125	1015G
1020G	37,800	400	2.875	1.00	30	6.02	2.44	4.14	3.46	3.46	1.50	1.14	5.74	5.10	.44	3.08	.70	.125	1020G
1025G	66,150	330	3.625	1.25	53	7.42	3.03	5.14	4.20	4.20	1.90	1.48	6.80	6.16	.44	3.82	.86	.188	1025G
1030G	107,100	280	4.125	1.50	80	8.50	3.59	6.00	4.72	4.72	2.16	1.68	7.92	7.16	.56	4.34	.96	.188	1030G
1035G	163,800	240	4.875	2.00	123	9.70	4.19	7.00	5.26	5.26	2.48	1.90	9.10	8.35	.56	4.88	1.06	.250	1035G
1040G	270,900	200	5.750	2.50	183	10.62	4.75	8.25	5.62	5.62	2.66	2.08	10.60	9.85	.56	5.24	1.08	.250	1040G
1045G	371,700	180	6.750	3.00	262	12.04	5.31	9.25	6.42	6.42	3.04	2.36	11.74	10.85	.68	6.04	1.24	.312	1045G
1050G	500,900	170	7.375	3.50	353	13.34	6.03	10.00	7.00	7.00	3.32	2.64	13.04	12.16	.68	6.60	1.37	.312	1050G
1055G	655,200	150	8.250	4.00	439	14.04	6.62	11.00	7.10	7.10	3.38	2.68	14.04	13.16	.68	6.70	1.29	.312	1055G
1060G	800,100	140	9.125	4.50	603	16.02	7.41	12.00	8.30	8.30	3.94	3.22	15.62	14.41	.76	7.92	1.67	.312	1060G
1070G	1,197,000	120	10.875	5.00	935	18.36	8.69	14.00	9.40	9.30	4.60	3.67	17.94	16.73	.76	9.03	1.96	.375	1070G

★ See Page 13 for General Information and other Reference Notes.

Type G72

Disconnect/Dimensions — Inches



Optional hand operated shifter mechanism to shift and secure the proper position of the sleeve assembly.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •		Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt lb	A	B	C	D	F	M	N	P	T	AA	AB	AC	AD	Gap	SIZE ★
			Long Hub	Free Hub																		
1010G	10,080	4,200	1.875	1.500	.50	15	.07	4.56	5.06	1.68	2.70	3.30	2.30	2.25	3.25	.50	6.25	5.00	.62	3.68	.125	1010G
1015G	20,790	3,200	2.375	2.062	.75	29	.12	6.00	5.81	2.06	3.40	4.14	3.00	3.00	3.62	.56	7.25	6.00	.62	4.26	.125	1015G
1020G	37,800	2,450	2.875	2.688	1.00	50	.20	7.00	7.06	2.44	4.14	4.98	3.30	3.88	4.50	.88	7.75	6.50	.62	5.38	.125	1020G
1025G	66,150	2,000	3.625	3.250	1.25	79	.38	8.38	8.44	2.88	5.14	6.10	3.60	4.75	5.38	.88	9.00	7.50	.75	6.50	.188	1025G
1030G	107,100	1,650	4.125	4.000	1.50	115	.60	9.44	9.68	3.88	6.00	7.10	4.20	5.75	5.62	1.00	9.75	8.50	.88	7.86	.188	1030G
1035G	163,800	1,530	4.875	4.312	2.00	180	.90	11.00	10.88	4.00	7.00	8.32	4.10	6.25	6.62	1.12	11.88	10.62	.88	8.64	.250	1035G
1040G	270,900	1,200	5.750	5.562	2.50	267	1.50	12.50	12.05	4.42	8.25	9.66	4.90	8.00	7.38	1.25	13.88	11.62	1.00	9.66	.250	1040G
1045G	371,700	1,060	6.750	6.188	3.00	336	1.70	13.62	12.38	4.82	9.25	10.79	5.50	8.88	7.25	1.56	15.50	13.00	1.00	9.91	.312	1045G
1050G	500,900	950	7.375	7.375	3.50	461	3.00	15.31	14.19	5.62	10.00	12.04	7.20	10.00	8.25	1.75	15.00	12.75	1.00	11.16	.312	1050G
1055G	655,200	860	8.250	7.375	4.00	612	3.70	16.75	15.19	6.62	11.00	13.16	7.25	10.00	8.25	2.12	17.75	15.75	1.12	13.31	.312	1055G
1060G	800,100	830	9.125	8.625	4.50	809	5.25	18.00	18.31	7.12	12.00	14.41	7.62	11.50	10.88	2.00	18.25	16.62	1.12	14.56	.312	1060G
1070G	1,197,000	680	10.875	10.875	5.00	1155	7.20	20.75	18.88	7.75	14.00	16.73	10.50	14.00	10.75	2.25	23.00	20.00	1.12	15.08	.375	1070G

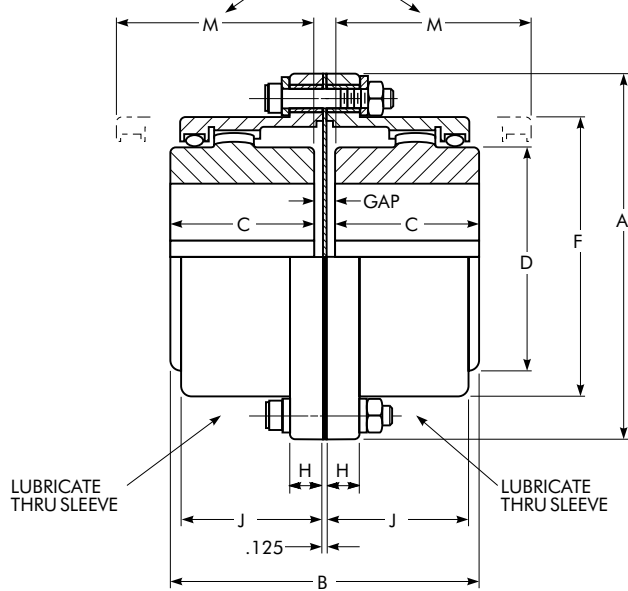
★ See Page 13 for General Information and Reference Notes.

Type GP20/52/82 Standard Flanged Sleeve

Insulated/Dimensions — Inches

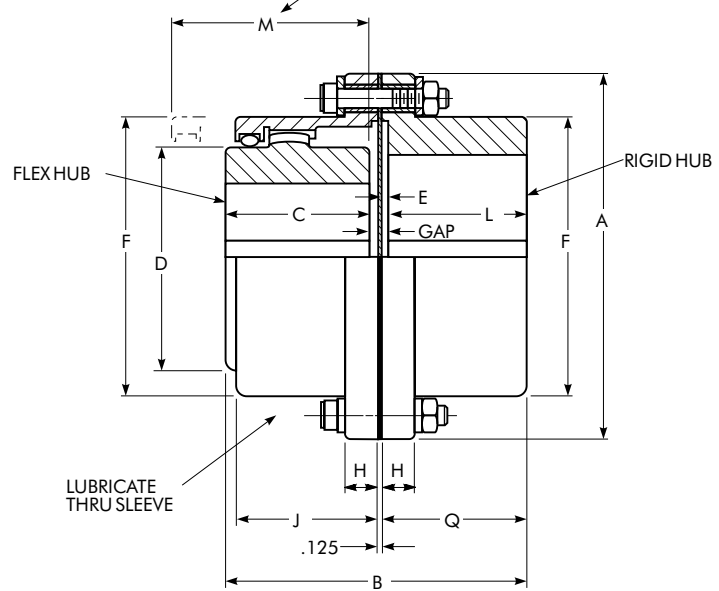
Type GP20 Double Engagement Coupling

MINIMUM CLEARANCE REQUIRED FOR ALIGNING



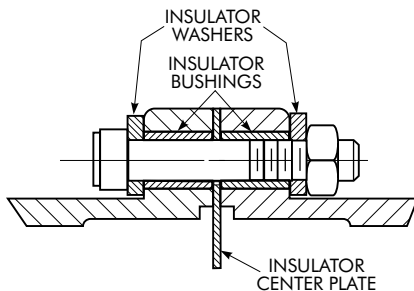
Type GP52 Single Engagement Coupling

MINIMUM CLEARANCE REQUIRED FOR ALIGNING

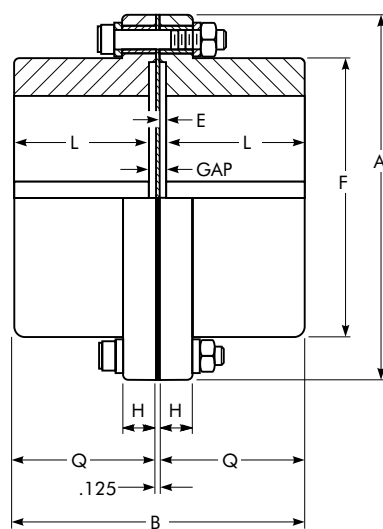


SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •		Min Bore ■	Cplg Wt With No Bore-lb			Lube Wt-lb	
			Flex Hub	Rigid Hub		GP20	GP52	GP82	GP20	GP52
1025G	66,150	5,000	3.625	4.375	1.25	65	60	60	.50	.26
1030G	107,100	4,400	4.125	5.125	1.50	95	95	95	.80	.40
1035G	163,800	3,900	4.875	5.875	2.00	150	150	155	1.20	.60
1040G	270,900	3,600	5.750	7.250	2.50	215	220	225	2.00	1.03
1045G	371,700	3,200	6.750	8.125	3.00	300	300	310	2.30	1.25
1050G	500,900	2,900	7.375	9.000	3.50	420	430	450	3.90	2.00
1055G	655,200	2,650	8.250	10.000	4.00	550	580	620	4.90	2.50
1060G	800,100	2,450	9.125	11.000	4.50	675	715	740	7.00	3.75
1070G	1,197,000	2,150	10.875	13.000	5.00	1070	1120	1180	9.60	5.00

★ See Page 13 for General Information and other Reference Notes.



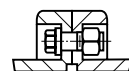
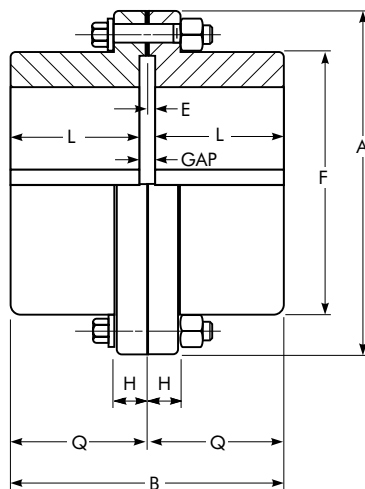
Type GP82 Rigid Coupling



SIZE ★	Flange Bolt		A	B			C	D	E	F	H	J	L	M	Q	Gap			SIZE ★
	Dia & Length	Torque (lb-in)		GP20	GP52	GP82										GP20	GP52	GP82	
1025GP	.500-13 x 3.00	420	8.38	6.38	6.24	6.12	3.03	5.14	.10	6.10	.86	2.82	2.90	3.60	3.00	.325	.325	.335	1025GP
1030GP	.500-13 x 3.00	420	9.44	7.49	7.36	7.24	3.59	6.00	.10	7.10	.86	3.30	3.46	4.20	3.56	.325	.325	.335	1030GP
1035GF	.625-11 x 4.00	840	11.00	8.75	8.55	8.36	4.19	7.00	.10	8.32	1.12	3.84	4.02	5.10	4.12	.385	.350	.335	1035GF
1040GP	.625-11 x 4.00	840	12.50	9.88	9.68	9.52	4.75	8.25	.16	9.66	1.12	4.38	4.54	5.70	4.70	.385	.420	.455	1040GP
1045GP	.625-11 x 4.00	840	13.62	11.06	10.87	10.72	5.31	9.25	.16	10.79	1.12	4.84	5.14	6.50	5.30	.450	.450	.455	1045GP
1050GP	.750-10 x 5.00	1440	15.31	12.49	12.29	12.12	6.03	10.00	.20	12.04	1.50	5.54	5.80	7.20	6.00	.450	.480	.535	1050GP
1055GP	.750-10 x 5.00	1440	16.75	13.68	13.88	14.12	6.62	11.00	.20	13.16	1.50	6.22	6.80	8.00	7.00	.450	.480	.535	1055GP
1060GP	.750-10 x 4.00	1440	18.00	15.24	15.28	15.32	7.41	12.00	.26	14.41	1.00	6.66	7.34	9.00	7.60	.450	.540	.655	1060GP
1070GP	.875-9 x 4.50	1800	20.75	17.89	17.98	18.12	8.69	14.00	.33	16.73	1.12	7.70	8.67	10.50	9.00	.510	.635	.795	1070GP

Type G82 Standard Flanged Sleeve

Rigid/Dimensions — Inches



Type G81 Shrouded Bolts furnished only when specified on order. Sizes 1060G and 1070G available only as Type G82.

SIZE ★	Torque Rating (lb-in) †	Allow Speed rpm ‡	Max Bore •	Min Bore ■	Cplg Wt With No Bore-lb		A	B	E	F	H	L	Q	Gap	SIZE ★
					G81	G82									
1010G	10,080	8,000	2.375	.50	9	10	4.56	3.32	.10	3.30	.55	1.56	1.66	.200	1010G
1015G	20,790	6,500	2.938	.75	19	20	6.00	3.84	.10	4.14	.75	1.82	1.92	.200	1015G
1020G	37,800	5,600	3.625	1.00	30	35	7.00	4.80	.10	4.98	.75	2.30	2.40	.200	1020G
1025G	66,150	5,000	4.375	1.25	55	60	8.38	6.00	.10	6.10	.86	2.90	3.00	.200	1025G
1030G	107,100	4,400	5.125	1.50	90	95	9.44	7.12	.10	7.10	.86	3.46	3.56	.200	1030G
1035G	163,800	3,900	5.875	2.00	135	155	11.00	8.24	.10	8.32	1.12	4.02	4.12	.200	1035G
1040G	270,900	3,600	7.250	2.50	210	225	12.50	9.40	.16	9.66	1.12	4.54	4.70	.320	1040G
1045G	371,700	3,200	8.125	3.00	290	310	13.62	10.60	.16	10.79	1.12	5.14	5.30	.320	1045G
1050G	500,900	2,900	9.000	3.50	415	450	15.31	12.00	.20	12.04	1.50	5.80	6.00	.400	1050G
1055G	655,200	2,650	10.000	4.00	590	620	16.75	14.00	.20	13.16	1.50	6.80	7.00	.400	1055G
1060G	800,100	2,450	11.000	4.50	...	740	18.00	15.20	.26	14.41	1.00	7.34	7.60	.520	1060G
1070G	1,197,000	2,150	13.000	5.00	...	1180	20.75	18.00	.33	16.73	1.12	8.67	9.00	.660	1070G

★ See Page 13 for General Information and other Reference Notes.

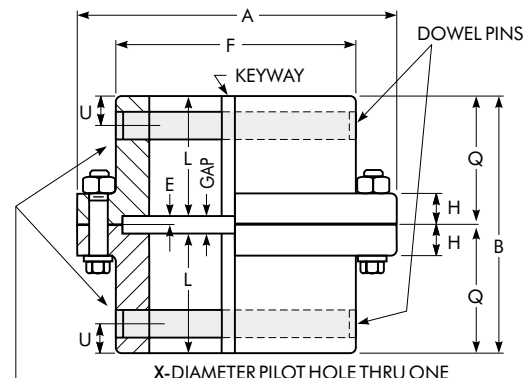
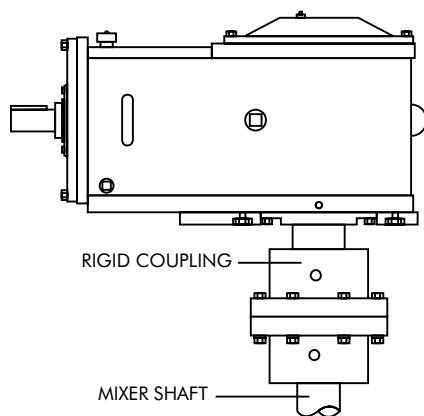
Type GV82 Standard Flanged Sleeve

Rigid Thrust/Dimensions — Inches

Type GV82 couplings are used as rigid connections for the low speed shaft of a gear drive and a mixer shaft or suspended load. The coupling carries the torque load, weight of the shaft and impeller, thrust forces and resulting bending moments.

When a rigid coupling is required, the following additional information is necessary.

1. Required thrust capacity and direction of thrust.
2. Radial force at impeller.
3. Distance from the center of coupling fastener flange to the center of the impeller.
4. Weight of shaft and impeller.



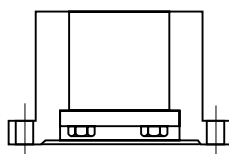
X-DIAMETER PILOT HOLE THRU ONE WALL IN EACH HUB AT 90° TO KEYWAY FOR W-DOWEL. AFTER MOUNTING HUBS, DRILL AND REAM THRU FOR .0010" T TO .0005" L DOWEL FIT. STAKE DOWELS IN PLACE.

SIZE ★	Torque Rating (lb-in) †	Hub Bore Range •	Cplg Wt With No Bore-lb	A	B	E	F	H	L	Q	U	W ♦		X	Gap	Size ★
												Dowel Dia x Length	Dowel Hole-Dia +.0005 -.0000			
1010GV	10,080	1.375-2.250	10	4.56	3.32	.10	3.30	.55	1.56	1.66	.38	.375 x 3.22	.3740	.344	.200	1010GV
1015GV	20,790	1.625-2.750	20	6.00	3.84	.10	4.14	.75	1.82	1.92	.50	.500 x 4.06	.4990	.469	.200	1015GV
1020GV	37,800	2.500-3.250	35	7.00	4.80	.10	4.98	.75	2.30	2.40	.75	.750 x 4.88	.7490	.719	.200	1020GV
1025GV	66,150	3.250-4.000	60	8.38	6.00	.10	6.10	.86	2.90	3.00	1.00	1.000 x 5.98	.9990	.938	.200	1025GV
1030GV	107,100	3.500-4.500	95	9.44	7.12	.10	7.10	.86	3.46	3.56	1.12	1.125 x 6.96	1.1240	1.063	.200	1030GV
1035GV	163,800	4.000-5.250	155	11.00	8.24	.10	8.32	1.12	4.02	4.12	1.25	1.250 x 8.20	1.2490	1.188	.200	1035GV
1040GV	270,900	4.500-6.250	225	12.50	9.40	.16	9.66	1.12	4.54	4.70	1.38	1.375 x 9.52	1.3740	1.313	.320	1040GV
1045GV	371,700	5.000-7.000	310	13.62	10.60	.16	10.79	1.12	5.14	5.30	1.50	1.500 x 10.64	1.4990	1.438	.320	1045GV
1050GV	500,900	5.750-7.750	450	15.31	12.00	.20	12.04	1.50	5.80	6.00	1.75	1.750 x 11.86	1.7490	1.688	.400	1050GV
1055GV	655,200	5.750-8.500	620	16.75	14.00	.20	13.16	1.50	6.80	7.00	1.75	1.750 x 13.00	1.7490	1.688	.400	1055GV
1060GV	800,100	6.750-9.250	740	18.00	15.20	.26	14.41	1.00	7.34	7.60	2.00	2.000 x 14.22	1.9990	1.938	.520	1060GV
1070GV	1,197,000	6.750-10.750	1180	20.75	18.00	.33	16.73	1.12	8.67	9.00	2.00	2.000 x 16.56	1.9990	1.938	.660	1070GV

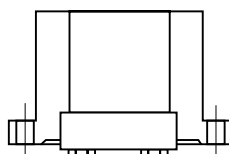
★ Refer to Page 13 for General Information and other Reference Notes.

♦ Dowels: diameters, +.000", -.001" material, AISI 4140 hardness, 310-350 HB; furnished by Falk. Customer is responsible for checking and furnishing driven shaft with satisfactory capacity.

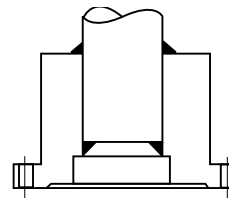
OTHER AXIAL RETENTION OPTIONS — AVAILABLE ON TYPE GXVF (Refer to Falk)



KEEPER PLATE



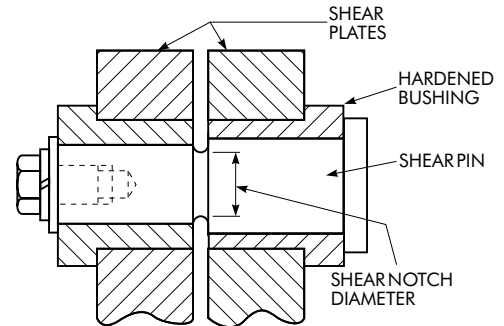
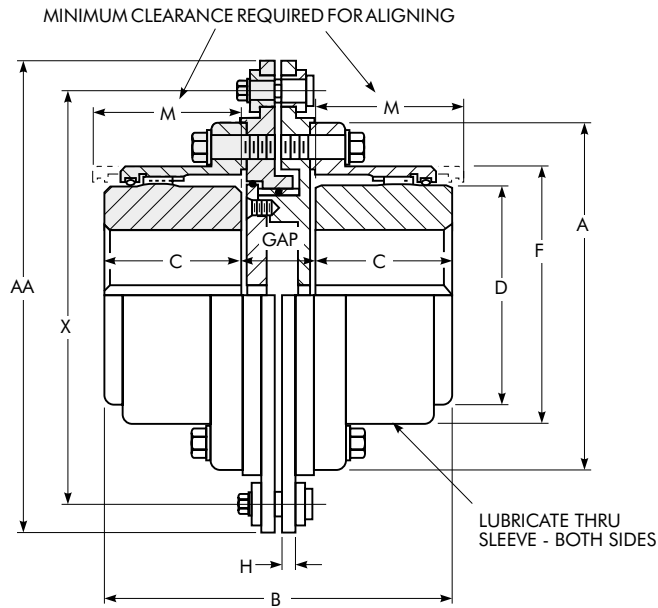
REGISTERED KEEPER PLATE



WELDED

Type GR20 Standard Flanged Sleeve

Shear Pin/Double Engagement Dimensions — Inches

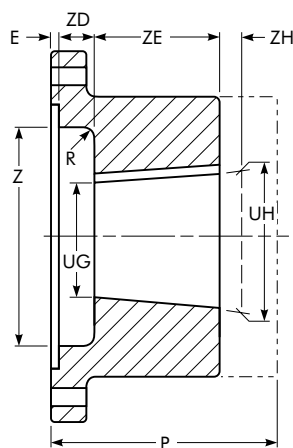
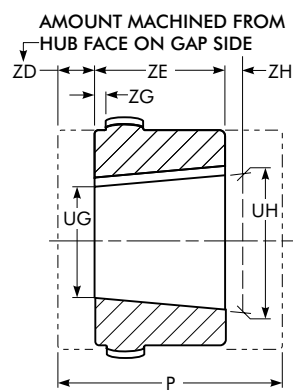


SIZE ★	Torque Rating (lb-in) †	Shear Torque (lb-in x 1000)		Allow Speed rpm ‡	Cplg Wt With No Bore-lb	Lube Wt-lb	A	B	C	D	F	H	M	X	AA	Gap	SIZE ★
		Min.	Max.														
1010GR	10,080	1.1	9.5	5,000	19	.09	4.56	4.79	1.69	2.70	3.30	.360	2.00	5.812	6.812	1.406	1010GR
1015GR	20,790	2.5	21.3	4,000	33	.16	6.00	5.44	1.94	3.40	4.14	.360	2.40	7.250	8.250	1.562	1015GR
1020GR	37,800	5.3	39.4	3,600	62	.25	7.00	6.70	2.44	4.14	4.98	.480	3.00	8.250	9.250	1.819	1020GR
1025GR	66,150	9.4	70.9	2,700	108	.50	8.38	7.94	3.03	5.14	6.10	.480	3.60	10.500	12.500	1.875	1025GR
1030GR	107,100	15.7	118.1	2,400	146	.80	9.44	9.22	3.59	6.00	7.10	.480	4.20	11.562	13.312	2.040	1030GR
1035GR	163,800	22.5	181.1	2,100	225	1.20	11.00	10.76	4.19	7.00	8.32	.480	5.10	13.125	14.875	2.375	1035GR
1040GR	270,900	27.8	275.6	1,900	304	2.00	12.50	11.88	4.75	8.25	9.66	.480	5.70	14.625	16.375	2.375	1040GR
1045GR	371,700	48.1	378.0	1,800	407	2.30	13.62	13.00	5.31	9.25	10.79	.480	6.50	15.750	17.750	2.375	1045GR
1050GR	500,900	61.8	511.9	1,750	616	3.90	15.31	15.53	6.03	10.00	12.04	.980	7.20	17.250	19.000	3.470	1050GR
1055GR	655,200	79.0	669.4	1,500	797	4.90	16.75	16.71	6.62	11.00	13.16	.980	8.00	19.000	21.000	3.470	1055GR
1060GR	800,100	111.3	886.3	1,400	972	7.00	18.00	18.29	7.41	12.00	14.41	.980	9.00	20.500	23.260	3.470	1060GR
1070GR	1,197,000	159.7	1260.6	1,250	1478	9.60	20.75	20.85	8.69	14.00	16.73	.980	10.50	23.250	26.000	3.470	1070GR

★ Refer to Page 13 for General Information and other Reference Notes. Minimum and maximum bores are the same as those for Type G20, Page 15.

Type G Standard Flanged Sleeve

Mill Motor & Taper Bores/Dimensions — Inches


TABLE 6 — Standard AISE AC & DC Mill Motor Coupling Selections

Motor Frame Sizes			COUPLING SIZE ★	E	R	UG	UH	Keyway	Z	ZD	ZE	ZG	ZH + .000 - .000
2 602	802 A, B & C	AC 1, 2 & 4	1015G 1020G 1025G	.10 .10 .10	.31	1.437	1.750	.500 x .250	3.250	.94	3.00	.06 .22 .49	.024
603 604	803 804	...	1015G 1020G 1025G 1030G	.10 .10 .10 .10	.38	1.635	2.000	.500 x .250	3.375	1.00	3.50	.00 .16 .43 .75	.029
606	806	AC 8 & 12	1020G 1025G 1030G 1035G	.10 .10 .10 .10	.38	2.083	2.500	.500 x .250	4.000	1.12	4.00	.04 .30 .62 1.00	.029
608	808	...	1025G 1030G 1035G 1040G	.10 .10 .10 .16	.50	2.531	3.000	.750 x .250	5.250	1.25	4.50	.18 .50 .88 1.26	.029
610	810	AC180	1025G 1030G 1035G 1040G	.10 .10 .10 .16	.25	2.781	3.250	.750 x .250	5.625♦	1.38	4.50	.05 .38 .76 1.14	.034
612	812	AC 25 & 30	1030G 1035G 1040G 1045G	.10 .10 .16 .16	.50	3.104	3.625	.750 x .250	6.250	1.50	5.00	.25 .63 1.01 1.27	.034
614	814	AC 40 & 50	1035G 1040G 1045G 1050G	.10 .16 .16 .20	.50	3.729	4.250	1.000 x .375	6.875	1.62	5.00	.50 .89 1.15 1.60	.034
616	816	...	1035G 1040G 1045G 1050G	.10 .16 .16 .20	.62	4.052	4.559* 4.625 4.625 4.625	1.250 x .375	7.690 7.875 7.875 7.875	1.75	4.870* 5.500 5.500 5.500	.38 .76 1.02 1.46	.034
618	818	...	1040G 1045G 1050G	.16 .16 .20	.62	4.375	5.000	1.250 x .500	8.375	1.32	6.00	1.20 1.47 1.91	0.38
620	820	...	1045G 1050G 1055G	.16 .20 .20	.75	5.172	5.875	1.500 x .750	9.750	1.75	6.75	1.02 1.47 2.02	.038
622	822	...	1045G 1050G 1055G 1060G	.16 .20 .20 .26	.75	5.495	6.250	1.500 x .750	9.750	2.37	7.25	.40 .85 1.39 1.64	.038
624	824	...	1050G 1055G 1060G 1070G	.20 .20 .26 .33	.75	6.037	7.000	1.500 x .750	9.750	2.37	9.25	.84 1.39 1.64 2.35	.038

★ See Page 13 for General Information and other Reference Notes. Minimum coupling selections are based on coupling bore capacity. Check coupling rating for all selections. Refer to Pages 17 & 19 for coupling dimensions.

♦ Spanner wrench required for Size 1025G.

* For rigid hub only.

TABLE 7 — Taper and Counter Bore Limitations ▲

SIZE ★	Flex Hub						Rigid Hub						SIZE ★
	P Max ♦	UG Min	UH Max	ZD Max	ZE Min	Keyway ▼	P Max ♦	UG Min	UH Max	Z Max	ZE Min	Keyway ▼	
1010G	4.00	.50	1.88	.73	1.69	.500 x .250	4.10	.50	2.38	3.00	1.56	.500 x .250	1010G
1015G	4.50	.75	2.38	1.00	1.94	.625 x .312	4.60	.75	2.94	3.38	1.82	.625 x .312	1015G
1020G	5.12	1.00	2.88	1.16	2.44	.750 x .375	5.22	1.00	3.75	4.00	2.30	.750 x .375	1020G
1025G	5.88	1.25	3.62	1.43	3.03	.875 x .438	5.98	1.25	4.38	5.62	2.90	.875 x .438	1025G
1030G	6.50	1.50	4.12	1.75	3.59	1.000 x .500	6.60	1.50	5.12	6.25	3.46	1.000 x .500	1030G
1035G	7.25	2.00	4.88	2.13	4.19	1.250 x .625	6.72	2.00	5.88	6.88	4.02	1.250 x .625	1035G
1040G	8.00	2.50	5.75	2.51	4.75	1.500 x .750	7.52	2.50	6.75	8.38	4.50	1.500 x .750	1040G
1045G	9.62	3.00	6.50	2.77	5.31	1.500 x .750	9.82	3.00	7.50	9.75	5.10	1.500 x .750	1045G
1050G	11.62	3.50	7.00	3.22	6.03	1.750 x .875	11.82	3.50	8.75	10.75	5.80	1.750 x .875	1050G
1055G	11.75	4.00	7.75	3.77	6.62	2.000 x 1.000	11.94	4.00	9.50	11.75	6.80	2.000 x 1.000	1055G
1060G	12.00	4.50	8.75	4.02	7.41	2.000 x 1.000	12.25	4.50	10.50	13.00	7.34	2.000 x 1.000	1060G
1070G	12.20	5.00	10.00	4.73	8.69	2.500 x 1.250	12.32	5.00	12.00	15.00	8.67	2.500 x 1.250	1070G

▲ This table specifies the taper bore limitations for the usual requirements. For hubs longer than those listed, refer to Falk.

♦ Standard Long Hub length; consult Falk for longer lengths.

▼ Keyway shown is for maximum bore with square key.

Engineering Data — Standard Flanged Sleeve & Continuous Sleeve

TABLE 8 — Recommended Commercial Keys for Bores with One Key — Inches & Millimeters

INCHES (Per ANSI B17.1 Standard)											
Shaft Diameter		Key	Shaft Diameter		Key	Shaft Diameter		Key	Shaft Diameter		Key
Over	Through		Over	Through		Over	Through		Over	Through	
.438	.562	.125 x .125	1.750	2.250	.500 x .500	4.500	5.500	1.250 x 1.250	11.000	13.000	3.000 x 2.000
.562	.875	.188 x .188	2.250	2.750	.625 x .625	5.500	6.500	1.500 x 1.500	13.000	15.000	3.500 x 2.500
.875	1.250	.250 x .250	2.750	3.250	.750 x .750	6.500	7.500	1.750 x 1.500	15.000	18.000	4.000 x 3.000
1.250	1.375	.312 x .312	3.250	3.750	.875 x .875	7.500	9.000	2.000 x 1.500	18.000	22.000	5.000 x 3.500
1.375	1.750	.375 x .375	3.750	4.500	1.000 x 1.000	9.000	11.000	2.500 x 1.750	...	...	...

MILLIMETERS (Per ISO R773 Standard)											
Shaft Diameter		Key	Shaft Diameter		Key	Shaft Diameter		Key	Shaft Diameter		Key
Over	Through		Over	Through		Over	Through		Over	Through	
6	8	2 x 2	38	44	12 x 8	95	110	28 x 16	260	290	63 x 32
8	10	3 x 3	44	50	14 x 9	110	130	32 x 18	290	330	70 x 36
10	12	4 x 4	50	58	16 x 10	130	150	36 x 20	330	380	80 x 40
12	17	5 x 5	58	65	18 x 11	150	170	40 x 22	380	440	90 x 45
17	22	6 x 6	65	75	20 x 12	170	200	45 x 25	440	500	100 x 50
22	30	8 x 7	75	85	22 x 14	200	230	50 x 28	...	...	...
30	38	10 x 8	85	95	25 x 14	230	260	56 x 32	...	...	...

TABLE 9 — Shaft Diameters & Ratings for NEMA 60 Hertz & 50 Hertz Metric Motors

NEMA 60 HERTZ MOTORS (hp)																													
Frame Size		T Frames																		TS Frames									
		143	145	182	184	213	215	254	256	284	286	324	326	364	365	404	405	444	445	284	286	324	326	364	365	404	405	444	445
Shaft Dia.		.88	.88	1.13	1.13	1.38	1.38	1.63	1.63	1.88	1.88	2.13	2.13	2.38	2.38	2.88	2.88	3.38	3.38	1.63	1.63	1.88	1.88	1.88	1.88	2.13	2.13	2.38	2.38
3600 RPM	Drip Proof	1 1/2	2-3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	250	30	40	50	60	75	100	125	150	200	250
	Enclosed	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	...	100	125	150	25	30	40	50	60	75	...	100	125	150
1800 RPM	Drip Proof	1	1 1/2-2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	25	30	40	50	60	75	100	125	150	200
	Enclosed	1	1 1/2-2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	...	100	125	150	25	30	40	50	60	75	...	100	125	150
1200 RPM	Drip Proof & Enclosed	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	15	20	25	30	40	50	60	75	100	125
900 RPM	Drip Proof & Enclosed	1/2	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	10	15	20	25	30	40	50	60	75	100
50 HERTZ METRIC MOTORS (kW)																													
Frame Size	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200M/L	225S	225M	250S	250M	280S	280M											
Shaft Dia.	19	24	24	28	28	38	38	42	42	48	48	55	55 60	55 60	60, 65 70	60, 65 70	65, 75 80	65, 75 80											
3000 RPM	0,75 1,10	1,5	2,2	3,0	4	5,5 7,5		11 15	18,5	22		30 37	45	45	55	55 75	75 90	90 110											
1500 RPM	0,55 0,75	1,1	1,5	2,2 3,0	4	5,5	7,5	11	15	18,5	22	30	37 45	45	55	55 75	75 90	90 110											
1000 RPM	0,37 0,55	0,75	1,1	1,5	2,2	3	4 5,5	7,5	11		15	18,5 22	30	30	37	37 45	45 50	55 75											
750 RPM	0,18 0,25	0,37	0,55	0,75 1,1	1,5	2,2	3	4 5,5	7,5		11	15	18,5	22	30	30 37	37 45	45 55											

Engineering Data — Standard Flanged Sleeve & Continuous Sleeve

TABLE 10 — Type G & GC Flex/Pilot Hub Maximum Bores — Inches & Millimeters

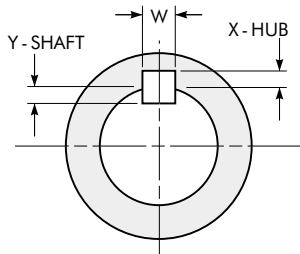
SIZE ★	INCHES										MILLIMETERS — Fits Per Table 12				
	With One Square Key			With One Rectangular Key						Max Bore ●		Min Bore ■	Max. Bore ●		
	Max Bore ●	Y=X		Max Bore ●	Y = X		Max Bore ●	Y=W/2		Int Fit w/ Setscrew Over Keyway	With Puller Holes Per Table 14		Std Bore Fits Per Table 12	Int Fit w/Setscrew Over Keyway	With Puller Holes Per Table 14
		W	X		W	X		W	X						
1010G/GC	1.875	.500	.250	2.000	.500	.187	2.125	.500	.125	1.750	1.500	13	50	45	37
1015G/GC	2.375	.625	.312	2.500	.625	.218	2.750	.625	.125	2.250	2.125	20	65	60	54
1020G/GC	2.875	.750	.375	3.125	.750	.250	3.250	.750	.125	2.750	2.875	26	78	75	72
1025G/GC	3.625	.875	.437	3.875	1.000	.375	4.000	1.000	.250	3.250	3.625	32	98	88	92
1030G/GC	4.125	1.000	.500	4.375	1.000	.375	4.750	1.250	.250	3.750	4.125	39	111	101	104
1035G/GC	4.875	1.250	.625	5.250	1.250	.437	5.750	1.500	.250	4.500	4.875	51	134	121	124
1040G	5.750	1.500	.750	6.250	1.500	.500	6.500	1.500	.250	5.500	5.750	64	160	150	146
1045G	6.500	1.500	.750	6.750	1.750	.750	...	...	...	5.750	6.750	77	183	160	171
1050G	7.000	1.750	.875	7.375	1.750	.750	...	...	...	6.500	7.375	89	200	177	187
1055G	7.750	2.000	1.000	8.250	2.000	.750	...	...	...	7.500	8.250	102	220	200	209
1060G	8.750	2.000	1.000	9.125	2.500	.875	...	...	...	8.000	9.125	115	244	212	232
1070G	10.000	2.500	1.250	10.875	2.500	.875	...	...	...	9.000	10.875	127	289	235	276

TABLE 11 — Type G & GC Rigid Hub & Maximum Bores — Inches & Millimeters

SIZE ★	INCHES										MILLIMETERS — Fits Per Table 12				
	With One Square Key			With One Rectangular Key						Max. Bore •		Min Bore ■	Max Bore •		
	Max Bore ●	Y=X		Max Bore ●	Y = X		Max Bore ●	Y=W/2		Int Fit w/ Setscrew Over Keyway	With Puller Holes Per Table 14		Std Bore Fits Per Table 12	Int Fit w/Setscrew Over Keyway	With Puller Holes Per Table 14
		W	X		W	X		W	X						
1010G	2.375	.625	.312	2.500	.625	.218	2.750	.625	.125	2.250	2.000	13	65	60	50
1015G	2.937	.750	.375	3.250	.750	.250	3.375	.875	.187	2.750	2.750	20	80	75	70
1020G	3.625	.875	.437	3.875	1.000	.375	4.000	1.000	.250	3.250	3.625	26	98	88	92
1025G	4.375	1.000	.500	4.625	1.250	.437	4.875	1.250	.250	3.875	4.375	32	118	107	111
1030G	5.125	1.250	.625	5.500	1.250	.437	5.875	1.500	.250	4.500	5.125	39	140	121	130
1035G	5.875	1.500	.750	6.250	1.500	.500	...	...	...	5.500	5.875	51	163	150	150
1040G	6.750	1.750	.875	7.250	1.750	.750	...	...	...	6.000	7.250	64	196	167	185
1045G	7.625	1.750	.875	8.125	2.000	.750	...	...	...	7.000	8.125	77	216	190	205
1050G	8.750	2.000	1.000	9.000	2.000	.750	...	...	...	8.250	9.000	89	235	220	228
1055G	9.750	2.000	1.000	10.000	2.500	.875	...	...	...	8.750	10.000	102	266	230	250
1060G	10.500	2.500	1.250	11.000	2.500	.875	...	...	...	9.750	11.000	115	290	260	280
1070G	12.000	3.000	1.500	13.000	3.000	1.000	...	...	...	11.000	13.000	127	340	290	330

★ See Page 13 for General Information and other Reference Notes.

■ Shaded areas indicate maximum bores for standard keys recommended in Table 8.



Check Key Stresses

**TABLE 12 — Recommended Bore Tolerances
Falk Steel Coupling Hubs – Millimeters**

Shaft Diameter (ISO/R775-1969)		Bore Diameter Tolerance		
Nominal	Tolerance	Clearance	Transitional	Interference
6 to 30	j6/k6 ♦	F7	H7	M6
Over 30 to 50	k6	F7	H7	K6
Over 50 to 80	m6	F7	H7	K7
Over 80 to 100	m6	F7	H7	M7
Over 100 to 200	m6	F7	H7	P7
Over 200 to 355	m6	F7	H7	R7
Over 355 to 500	m6	F7	H7	R8

♦ Per DIN 748 — Differs with ISO/R775.

Engineering Data — Standard Flanged Sleeve & Continuous Sleeve

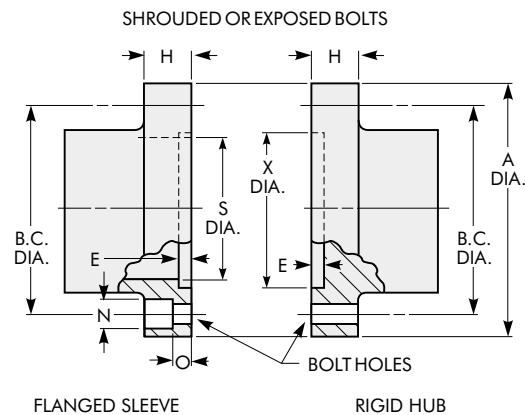
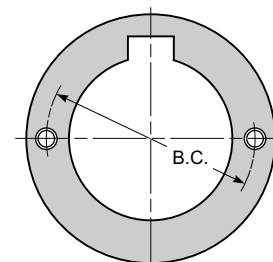


TABLE 13 — Flanged Sleeve and Rigid Hub Details

SIZE ★	Shrouded or Exposed Bolts					Shrouded				Exposed	
	A +.000 -.004	E ± .010	H	S ±.010	X ±.010	B.C.	Bolt No.-Dia	N	O	B.C.	Bolt No.-Dia
1010G	4.562	.100	.55	3.060	3.180	3.750	6-.250	.46	.250	3.750	6-.250
1015G	6.000	.100	.75	3.810	3.920	4.812	8-.375	.58	.250	4.812	8-.375
1020G	7.000	.100	.75	4.640	4.800	5.812	10-.375	.58	.250	5.875	6-.500
1025G	8.375	.100	.86	5.700	5.860	7.000	10-.500	.78	.320	7.125	6-.625
1030G	9.438	.100	.86	6.660	6.820	8.000	12-.500	.78	.320	8.125	8-.625
1035G	11.000	.100	1.12	7.690	7.860	9.281	12-.625	.97	.400	9.500	8-.750
1040G	12.500	.160	1.12	9.060	9.250	10.625	14-.625	.97	.400	11.000	8-.750
1045G	13.625	.160	1.12	10.060	10.250	11.750	14-.625	.97	.400	12.000	10-.750
1050G	15.313	.200	1.50	11.060	11.420	13.188	14-.750	1.16	.560	13.500	8-.875
1055G	16.750	.200	1.50	12.090	12.420	14.438	16-.750	1.16	.560	14.500	14-.875
1060G	18.000	.260	1.00	13.280	13.920	...	...	...	...	15.750	14-.875
1070G	20.750	.330	1.12	15.300	15.940	...	...	...	...	18.250	16-1.000

TABLE 14 — Puller Bolt Holes (Conforms to API 610 Specs.)

SIZE ★	B.C.		Tap Size UNC
	Flex Hub/Pilot Hub	Rigid Hub	
1010G/GC	2.060	2.625	.375-16 x .50
1015G/GC	2.750	3.375	.375-16 x .50
1020G/GC	3.500	4.250	.375-16 x .50
1025G/GC	4.440	5.240	.375-16 x .50
1030G/GC	5.060	6.160	.375-16 x .50
1035G/GC	6.000	7.180	.500-13 x .62
1040G	7.125	8.260	.625-11 x .75
1045G	7.875	9.180	.625-11 x .75
1050G	8.500	10.200	.750-10 x .88
1055G	9.375	11.200	.750-10 x .88
1060G	10.375	12.460	.750-10 x .88
1070G	12.250	14.500	1.000-8 x 1.18



Puller bolt holes are available for an extra charge.

★ See Page 13 for General Information and other Reference Notes.

Engineering Data — Standard Flanged Sleeve & Continuous Sleeve

TABLE 15 — Torsional Stiffness—lb-in/Radian (10⁶) With No Bores

SIZE	Exposed Bolt Types				Shrouded Bolt Types				Continuous Sleeve	
	Half Couplings		Complete Couplings		Half Couplings		Complete Couplings		GC02	GC05
	Flex Half	Rigid Half	G20 GP20	G52 GP52	Flex Half	Rigid Half	G10	G51		
1010G/GC	42	91	21	28	28	84	14	21	29	28
1015G/GC	107	213	53	71	79	188	39	55	60	59
1020G/GC	162	349	81	110	128	317	64	91	103	102
1025G/GC	246	611	123	177	197	557	99	146	194	195
1030G/GC	355	912	177	255	293	848	146	218	304	306
1035G/GC	469	1501	234	357	496	1371	248	364	433	442
1040G	963	2376	481	685	698	2138	349	526	...	...
1045G	1223	3144	611	880	1017	2942	508	756	...	...
1050G	1966	4226	983	1342	1573	4052	786	1133	...	...
1055G	2167	5375	1083	1554	1954	4994	977	1404	...	...
1060G	2588	6584	1294	1857	...	...	...	...	...	...
1070G	4276	10202	2138	3013	...	...	...	...	...	...

TABLE 16 — WR² (lb-in²) Values With No Bores

SIZE ★	Type G and GP											Type GL		Type GV				Type GC	
	G10	G20 GP20	G32 ♦		Spacer ★ WR 2 per inch	G51	G52 GP52	G70	G72	G81	G82 GP82 GV82	GL20	GL52	GV10	GV20	GV51	GV52	GC02	GC05
			Min. BE	Cplg. WR2															
1010G/GC	16	19	3.25	35	1.51	17	20	11	21	17	20	20	20	16	19	17	20	10.2	10.4
1015G/GC	55	70	3.25	125	1.81	56	71	29	77	57	73	72	72	54	69	57	72	29	30
1020G/GC	123	150	3.25	245	4.10	130	155	80	170	135	160	155	155	125	145	130	160	77	80
1025G/GC	302	385	3.75	610	7.78	320	400	210	425	340	420	395	405	305	385	325	405	220	225
1030G/GC	580	705	3.75	1,085	11.67	620	745	450	800	660	785	740	760	580	705	625	750	468	478
1035G/GC	1,320	1,625	4.75	2,495	26.50	1,390	1,695	940	1,780	1,440	1,765	1,685	1,720	1,310	1,615	1,385	1,705	910	927
1040G	2,595	3,105	4.75	4,520	49.10	2,735	3,250	1,970	3,355	2,850	3,400	3,260	3,300	2,580	3,090	2,750	3,285	...	...
1045G	4,235	5,035	4.75	7,060	88.30	4,475	5,195	3,440	5,170	4,680	5,360	5,270	5,270	4,195	4,995	4,495	5,235	...	...
1050G	7,530	8,990	5.75	13,220	120.00	8,040	9,520	5,610	9,510	8,545	10,040	9,425	9,670	7,550	9,010	8,155	9,635	...	...
1055G	12,470	13,785	5.75	19,755	159.00	13,555	15,000	8,190	14,300	14,630	16,190	14,465	15,220	12,485	13,795	13,710	15,170	...	...
1060G	...	18,210	5.75	24,245	226.00	...	19,795	13,520	20,810	...	21,375	19,430	20,205	...	18,340	...	20,165	...	...
1070G	...	38,760	5.75	50,620	332.00	...	42,040	28,320	40,350	...	45,295	41,150	42,775	...	38,880	...	42,780	...	...

★ See Page 13 for General Information and other Reference Notes.

♦ To determine total WR² of spacer couplings with a BE (distance between shaft ends) greater than minimum:

1. Subtract minimum BE from required BE.

2. Multiply the result of Step 1 by the appropriate spacer WR² and add to coupling WR² at minimum BE.

★ Values apply to the tube portion only. Flange WR² is included in the spacer WR² for minimum BE.

TABLE 17 — Standard Filleted Keyways & Chamfered Keys

Nominal Bore		Key		Hub Keyway			
Over	Thru	Size (Nominal)	45 ° Chamfer Suggested	Width		Depth ▲ + .010 to + .020	Fillet Radii
.438	.562	.125 x .125	.031	.125	}	.062	.016
.562	.875	.187 x .187	.031	.187		.093	.016
.875	1.250	.250 x .250	.031	.250		.125	.016
1.250	1.375	.312 x .312	.047	.312	}	.156	.031
1.375	1.750	.375 x .375	.047	.375		.187	.031
1.750	2.250	.500 x .500	.047	.500		.250	.031
2.250	2.750	.625 x .625	.078	.625	}	.312	.062
2.750	3.250	.750 x .750	.078	.750		.375	.062
3.250	3.750	.875 x .875	.078	.875		.437	.062
3.750	4.500	1.000 x 1.000	.078	1.000	}	.500	.062
4.500	5.500	1.250 x 1.250	.156	1.250		.625	.125
5.500	6.500	1.500 x 1.500	.156	1.500		.750	.125
6.500	7.500	1.750 x 1.500	.156	1.750	}	.750	.125
7.500	9.000	2.000 x 1.500	.156	2.000		.750	.125
9.000	11.000	2.500 x 1.750	.156	2.500		.875	.125
11.000	13.000	3.000 x 2.000	.219	3.000	}	1.000	.188

▲ Shallow keyway depths must be equal or exceed 2/3 of the full keyway depth of the square keys shown above.

Engineering Data — Standard Flanged Sleeve & Continuous Sleeve

VARIABLE GAP — Normally it is not necessary to overhang gear coupling hubs since the hubs can readily be reversed to produce different gap dimensions as illustrated in Figures 1, 2 and 4 below. Also, long hubs from [Table 7, Page 34](#), can be cut off to suit required gap as illustrated in Figures 3 and 5 below.

However when the distance between shafts is greater than the allowable coupling gap, overhang one or both hubs. It must be remembered that this practice reduces shaft-hub engagement. If the overhang with a standard hub results in less than .75 times the shaft diameter engagement, a coupling with long hubs is recommended. Use the standard interference fit and check key strength.

CAUTION: The effect of open keyways on coupling balance should always be considered.

If axial shaft movement is required, use the Type GL slide coupling.

MISALIGNMENT CAPACITY — Shaft misalignment can be due to the combined effects of both parallel and angular shaft displacement. Falk 1000 series gear couplings are designed to accommodate a static misalignment of $1\frac{1}{2}^\circ$ per gear mesh. The recommended installation misalignment is limited to $\frac{1}{8}^\circ$ per gear mesh. Axial movement of connected shafts is also accommodated.

It is important that flexible couplings be properly aligned so that the maximum benefits of the equipment can be obtained. These benefits include the following:

1. Longer coupling life with minimum maintenance.
2. Longer life of the connected equipment as a result of reduced bending moments and radial forces which are related to the amount of misalignment.
3. Permit drive systems to have reserve misalignment capacity to accommodate unavoidable alignment changes caused by bearing wear foundation settling, thermal expansion, etc.

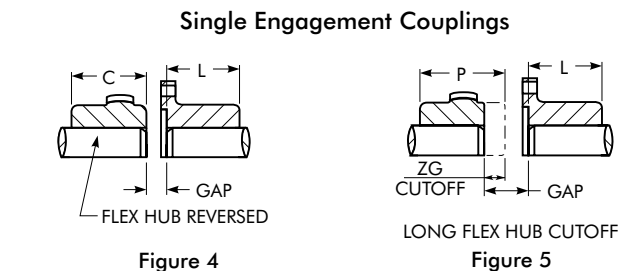
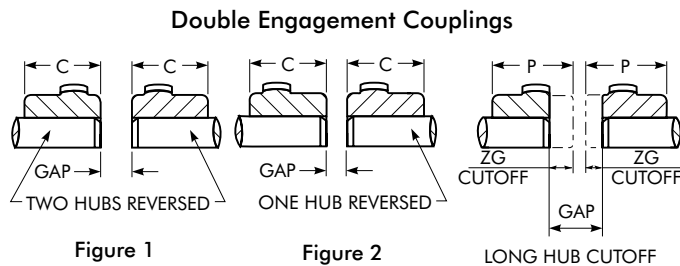


TABLE 18 — Type G Only Variable Gap

SIZE ★	C Std	L Std	P Max	ZG Max ♦	Coupling Gap							
					Double Engagement				Single Engagement			
					Std	Fig 1	Fig 2	Fig 3	Std	Fig 4	Fig 5	
1010G	1.69	1.56	4.00	.728	.125	.409	.267	1.581	.156	.298	.884	
1015G	1.94	1.82	4.50	1.000	.125	1.125	.625	2.125	.156	.656	1.156	
1020G	2.44	2.30	5.12	1.160	.125	1.045	.585	2.445	.156	.616	1.316	
1025G	3.03	2.90	5.88	1.430	.188	1.328	.758	3.048	.188	.758	1.618	
1030G	3.59	3.46	6.50	1.750	.188	1.768	.978	3.688	.188	.978	1.938	
1035G	4.19	4.02	7.25	2.130	.250	2.390	1.320	4.510	.218	1.288	2.348	
1040G	4.75	4.54	8.00	2.510	.250	3.110	1.680	5.270	.281	1.711	2.791	
1045G	5.31	5.14	9.62	2.770	.312	3.372	1.842	5.852	.312	1.842	3.082	
1050G	6.03	5.80	11.62	3.220	.312	4.012	2.162	6.752	.344	2.194	3.564	
1055G	6.62	6.80	11.75	3.770	.312	5.272	2.792	7.852	.344	2.824	4.114	
1060G	7.41	7.34	12.00	4.020	.312	5.012	2.662	8.352	.406	2.756	4.426	
1070G	8.69	8.67	12.20	4.730	.375	5.915	3.145	9.835	.500	3.270	5.230	

★ See Page 13 for General Information and other Reference Notes.

♦ Standard gap must be increased by the amount cut off the hub, or hubs, to maintain the correct flex hub tooth position.

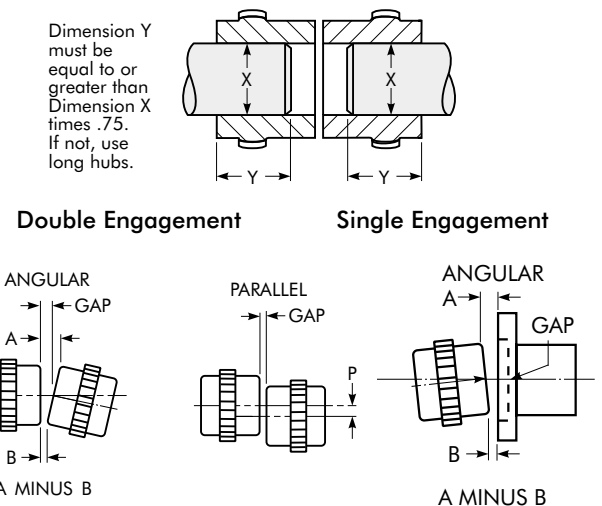


TABLE 19 — Misalignment Capacity *

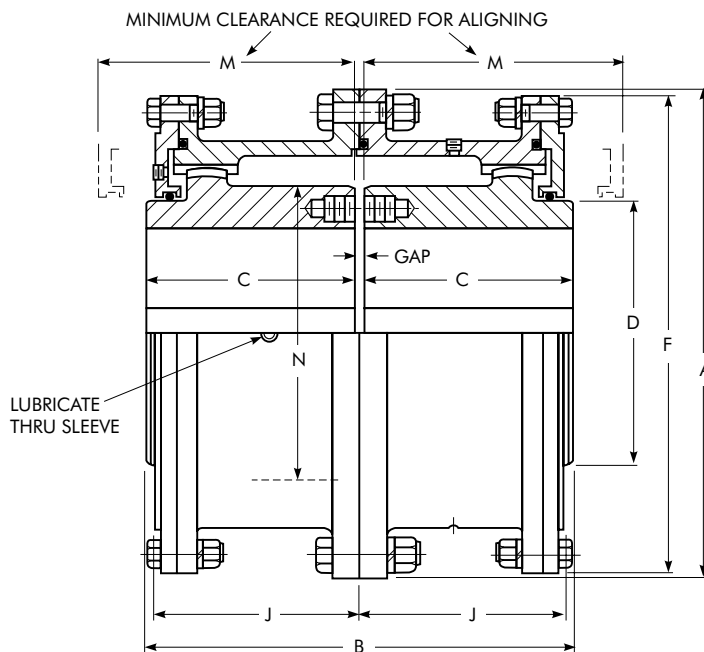
SIZE ★	Double Engagement				Single Engagement ▲	
	Recommended Installation Maximum		Maximum Operating *		Angular Maximum Inches	
	Parallel Offset-in. P	Angular Inches A Minus B	Parallel Offset-in. P	Angular Inches A Minus B	Recommended Installation A Minus B	Maximum Operating * A Minus B
1010G	.002	.006	.026	.071	.006	.035
1010GC	.002	.003	.011	.071	.006	.035
1015G	.003	.007	.034	.089	.007	.045
1015GC	.002	.007	.017	.089	.007	.045
1020G	.003	.009	.040	.108	.009	.054
1020GC	.002	.009	.019	.108	.009	.054
1025G	.004	.011	.050	.135	.011	.067
1025GC	.002	.011	.024	.135	.011	.067
1030G	.005	.013	.060	.157	.013	.079
1030GC	.002	.013	.027	.157	.013	.079
1035G	.006	.015	.072	.183	.015	.092
1035GC	.003	.013	.032	.183	.015	.092
1040G	.007	.018	.084	.216	.018	.108
1045G	.008	.020	.094	.242	.020	.121
1050G	.009	.022	.107	.262	.022	.131
1055G	.011	.024	.123	.288	.024	.144
1060G	.011	.026	.132	.314	.026	.157
1070G	.013	.031	.155	.367	.031	.183

* These maximum operating alignment limits are each based on $3/4^\circ$ per flex half coupling. Combined values of parallel and angular misalignment should not exceed $3/4^\circ$. Type GL slide couplings are limited to $1/4^\circ$ per flex half.

▲ Do not use single engagement couplings to compensate for parallel offset misalignment

Type G20 Large Flanged Sleeve

Double Engagement/Dimensions — Inches



SIZE ★	Torque Rating lb-in (millions) †		Allow Speed rpm ‡	Max Bore One Rect Key ●	Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt lb	A	B	C	D	F	J	M	N	Gap
	1000 Series	2000 Series														
1080/2080G	1.506	2.070	1,750	10.50	4.000	1550	21	23.25	20.02	9.82	14.00	22.50	9.56	11.81	14.50	.375
1090/2090G	1.997	2.791	1,550	11.25	4.500	2170	27	26.00	22.26	10.88	15.50	25.25	10.44	12.88	16.50	.500
1100/2100G	2.747	3.919	1,450	12.75	5.000	2870	33	28.00	24.50	12.00	17.50	27.50	11.56	14.00	18.50	.500
1110/2110G	3.654	5.393	1,330	14.00	5.500	3700	39	30.50	26.74	13.12	19.50	29.50	12.69	15.12	20.50	.500
1120/2120G	4.914	6.880	1,200	15.25	6.000	4660	46	33.00	28.26	13.88	21.50	32.50	13.44	15.88	22.50	.500
1130/2130G	6.363	8.190	1,075	16.25	6.500	5720	72	35.88	29.99	14.62	23.00	34.88	14.25	17.12	24.00	.750
1140/2140G	8.064	10.080	920	17.75	7.000	6850	73	38.00	31.71	15.48	25.00	37.00	14.88	18.00	26.00	.750
1150/2150G	9.702	11.970	770	19.00	7.500	8300	90	40.50	33.75	16.50	27.00	39.50	16.06	19.00	28.00	.750
1160/2160G	11.592	14.490	650	21.00 ♦	10.000	10380	95	43.75	35.75	17.375	29.00	42.75	16.50	19.75	30.00 ♦	1.000
1180/2180G	14.679	18.900	480	24.25 ♦	11.250	13800	110	48.00	37.00	18.00	33.00	47.00	17.12	20.50	34.00 ♦	1.000
1200/2200G	18.963	25.200	370	27.00 ♦	12.500	18920	150	53.50	43.25	21.125	36.50	51.50	20.25	25.00	38.00 ♦	1.000
1220/2220G	24.066	31.500	290	30.00 ♦	13.750	25760	235	59.50	47.00	23.00	40.00	58.00	22.25	27.00	42.00 ♦	1.000
1240/2240G	30.744	39.690	270	33.75 ♦	15.000	32200	240	64.25	50.50	24.75	44.50	62.25	23.88	28.50	46.00 ♦	1.000
1260/2260G	39.753	48.510	250	37.00 ♦	16.250	39240	270	68.75	54.00	26.50	48.50	66.75	25.50	30.50	50.00 ♦	1.000
1280/2280G	51.660	59.850	230	39.00 ♦	17.500	46720	300	73.50	55.48	27.24	52.50	71.00	26.25	31.25	54.00 ♦	1.000
1300/2300G	59.850	72.450	220	42.00 ♦	18.750	54690	330	77.75	57.00	28.00	56.50	75.25	27.00	31.50	58.00 ♦	1.000

★ See Page 13 for General Information and other Reference Notes.

♦ Reduced shank diameter hubs are available where required bore permits. See Table 30, Page 52 for selection.

TABLE 20 — Limited End Float & Standard Gap Disc Dimensions — Inches

SIZE	B	End Float ♦	Gap Disc *		Gap
			Thickness	Dia	
1080/2080G	20.36	.188	.625	16.38	.719
1090/2090G	22.73	.188	.875	18.50	.969
1100/2100G	24.97	.188	.875	20.50	.969
1110/2110G	27.21	.188	.875	22.38	.969
1120/2120G	28.73	.188	.875	24.50	.969
1130/2130G	30.65	.188	1.312	26.62	1.406
1140/2140G	32.37	.188	1.312	28.62	1.406
1150/2150G	34.41	.188	1.312	30.62	1.406

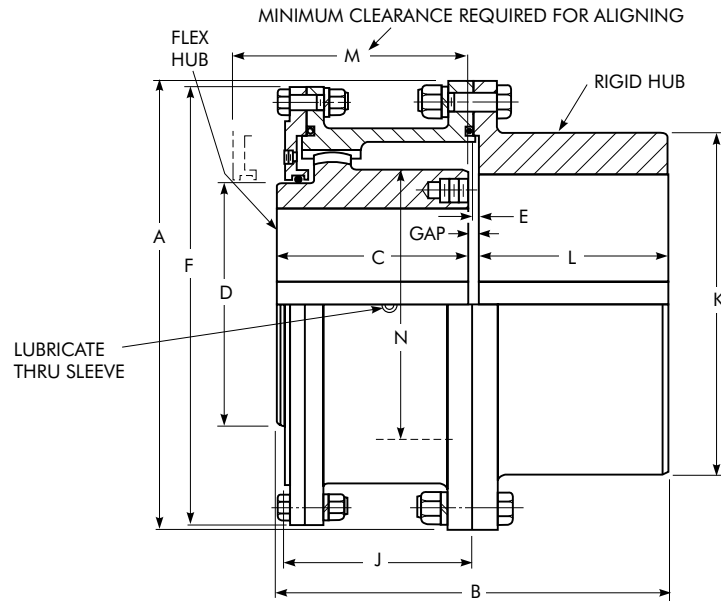
♦ If this value exceeds one-half rotor end float or equivalent manufacturer's specifications, refer to Falk.

* Gap disc material: Neoprene, 70 durometer.

Type G52 Large Flanged Sleeve

Single Engagement/Dimensions — Inches

IMPORTANT — When couplings are mounted on a floating shaft, do not exceed allowable shaft speed for the assembly. Use a gap disc in each coupling.



SIZE ★	Torque Rating lb-in (millions) †		Allow Speed rpm ‡	Max Bore One Rect Key •		Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt lb	A	B	C	D	E	F	J	K *	L	M	N	Gap
	1000 Series	2000 Series		Flex Hub	Rigid Hub															
1080/2080G	1.506	2.070	1,750	10.50	13.25	4.000	1540	11	23.25	20.12	9.82	14.00	.32	22.50	9.56	17.75	9.80	11.81	14.50	.50
1090/2090G	1.997	2.791	1,550	11.25	15.00	4.500	2170	14	26.00	22.30	10.88	15.50	.32	25.25	10.44	20.00	10.86	12.88	16.50	.56
1100/2100G	2.747	3.919	1,450	12.75	15.50	5.000	2760	17	28.00	24.62	12.00	17.50	.38	27.50	11.56	20.88	12.00	14.00	18.50	.62
1110/2110G	3.654	5.393	1,330	14.00	17.25	5.500	3610	20	30.50	26.86	13.12	19.50	.38	29.50	12.69	23.00	13.12	15.12	20.50	.62
1120/2120G	4.914	6.880	1,200	15.25	19.00	6.000	4580	24	33.00	28.37	13.88	21.50	.38	32.50	13.44	25.50	13.87	15.88	22.50	.62
1130/2130G	6.363	8.190	1,075	16.25	20.75	6.500	5670	37	35.88	29.99	14.62	23.00	.38	34.88	14.25	27.88	14.62	17.12	24.00	.75
1140/2140G	8.064	10.080	920	17.75	22.00	7.000	6750	38	38.00	31.73	15.48	25.00	.38	37.00	14.88	29.50	15.50	18.00	26.00	.75
1150/2150G	9.702	11.970	770	19.00	24.00	7.500	8270	46	40.50	33.75	16.50	27.00	.38	39.50	16.06	32.00	16.50	19.00	28.00	.75
1160/2160G	11.592	14.490	650	21.00 ♦	26.00 ♦	10.000	10210	48	43.75	35.76	17.375	29.00	.50	42.75	16.50	34.88 ♦	17.38	19.75	30.00 ♦	1.00
1180/2180G	14.679	18.900	480	24.25 ♦	30.00 ♦	11.250	13380	56	48.00	37.00	18.00	33.00	.50	47.00	17.12	39.12 ♦	18.00	20.50	34.00 ♦	1.00
1200/2200G	18.963	25.200	370	27.00 ♦	33.25 ♦	12.500	18700	76	53.50	43.25	21.125	36.50	.50	51.50	20.25	43.12 ♦	21.12	25.00	38.00 ♦	1.00
1220/2220G	24.066	31.500	290	30.00 ♦	38.00 ♦	13.750	25750	120	59.50	47.12	23.00	40.00	.62	58.00	22.25	49.00 ♦	23.00	27.00	42.00 ♦	1.12
1240/2240G	30.744	39.690	270	33.75 ♦	40.00 ♦	15.000	31720	125	64.25	50.62	24.75	44.50	.62	62.25	23.88	51.76 ♦	24.75	28.50	46.00 ♦	1.12
1260/2260G	39.753	48.510	250	37.00 ♦	43.50 ♦	16.250	39070	135	68.75	54.12	26.50	48.50	.62	66.75	25.50	56.00 ♦	26.50	30.50	50.00 ♦	1.12
1280/2280G	51.660	59.850	230	39.00 ♦	46.25 ♦	17.500	46540	155	73.50	55.60	27.24	52.50	.62	71.00	26.25	60.26 ♦	27.24	31.25	54.00 ♦	1.12
1300/2300G	59.850	72.450	220	42.00 ♦	50.00 ♦	18.750	54480	170	77.75	57.12	28.00	56.50	.62	75.25	27.00	64.50 ♦	28.00	31.50	58.00 ♦	1.12

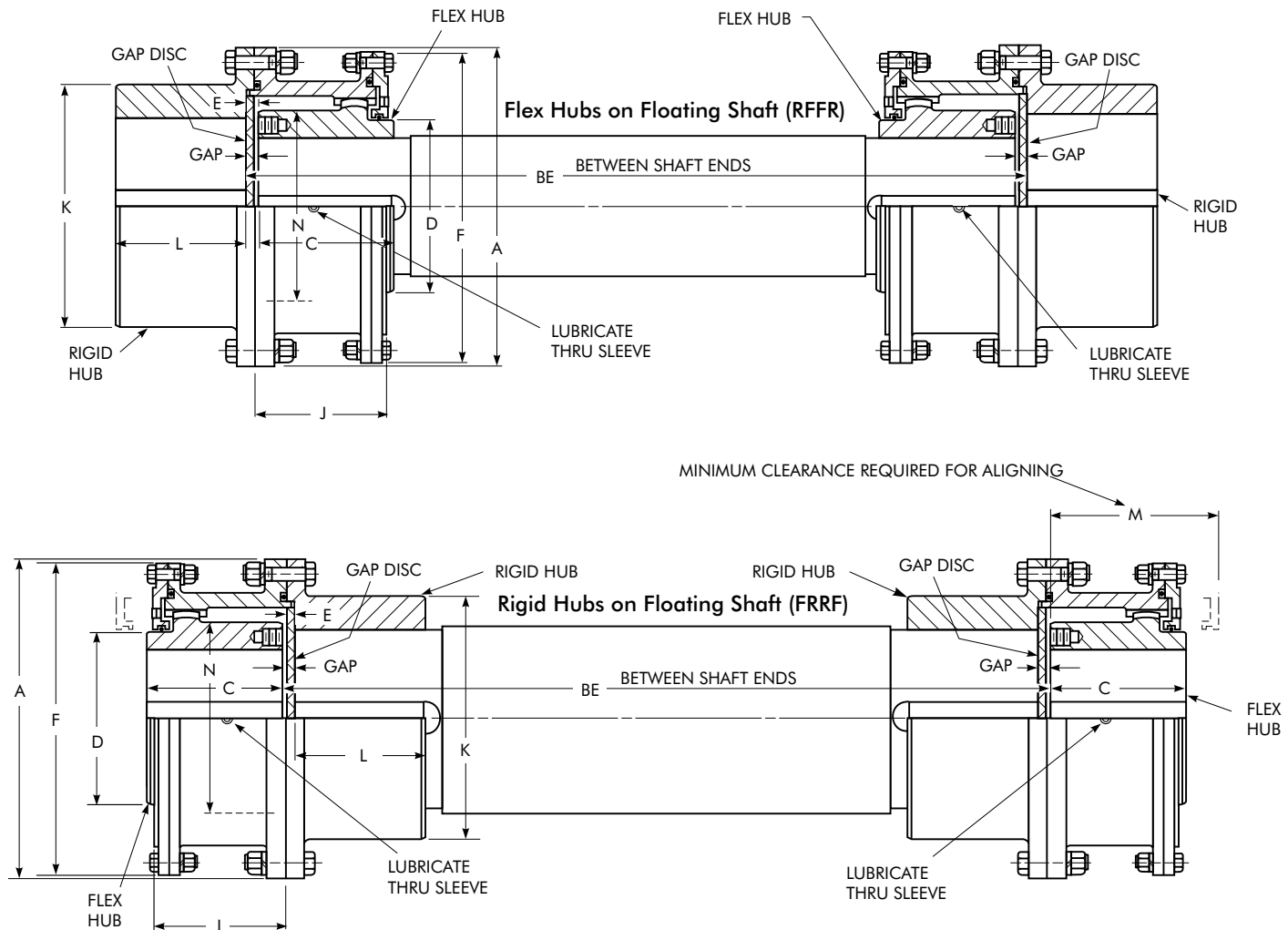
★ See Page 13 for General Information and other Reference Notes.

♦ Reduced shank diameter hubs are available where required bore permits. See Table 30, Page 52 for selection.

* Dimension K may be an "as-cast" surface, depending upon coupling size and bore.

Type G52 Large Flanged Sleeve

Floating Shaft Single Engagement/Dimensions — Inches



SIZE ★	Torque Rating lb-in (millions) †		Allow Speed rpm ▲	Max Bore • One Rect Key		Cplg Wt With No Bore-lb	Lube Wt lb	A	BE Min		C	D	E	F	J	K *	L	M	N	Gap
	1000 Series	2000 Series		Flex Hub	Rigid Hub				RFFR	FRRF										
1080/2080G	1.506	2.070	1,300	10.50	13.25	1540	11	23.25	30.50	21.62	9.82	14.00	.32	22.50	9.56	17.75	9.80	11.81	14.50	.50
1090/2090G	1.997	2.791	1,160	11.25	15.00	2170	14	26.00	32.50	23.88	10.88	15.50	.32	25.25	10.44	20.00	10.86	12.88	16.50	.56
1100/2100G	2.747	3.919	1,090	12.75	15.50	2760	17	28.00	36.50	26.25	12.00	17.50	.38	27.50	11.56	20.88	12.00	14.00	18.50	.62
1110/2110G	3.654	5.393	1,000	14.00	17.25	3610	20	30.50	40.50	28.50	13.12	19.50	.38	29.50	12.69	23.00	13.12	15.12	20.50	.62
1120/2120G	4.914	6.880	900	15.25	19.00	4580	24	33.00	43.50	30.00	13.88	21.50	.38	32.50	13.44	25.50	13.87	15.88	22.50	.62
1130/2130G	6.363	8.190	800	16.25	20.75	5670	37	35.88	44.50	31.75	14.62	23.00	.38	34.88	14.25	27.88	14.62	17.12	24.00	.75
1140/2140G	8.064	10.080	700	17.75	22.00	6750	38	38.00	46.50	33.50	15.48	25.00	.38	37.00	14.88	29.50	15.50	18.00	26.00	.75
1150/2150G	9.702	11.970	580	19.00	24.00	8270	46	40.50	51.00	35.50	16.50	27.00	.38	39.50	16.06	32.00	16.50	19.00	28.00	.75
1160/2160G	11.592	14.490	490	21.00 ♦	26.00 ♦	10210	48	43.75	52.00	37.75	17.38	29.00	.50	42.75	16.50	34.88 ♦	17.38	19.75	30.00 ♦	1.00
1180/2180G	14.679	18.900	360	24.25 ♦	30.00 ♦	13380	56	48.00	53.50	39.00	18.00	33.00	.50	47.00	17.12	39.12 ♦	18.00	20.50	34.00 ♦	1.00
1200/2200G	18.963	25.200	280	27.00 ♦	33.25 ♦	18700	76	53.50	65.00	45.25	21.12	36.50	.50	51.50	20.25	43.12 ♦	21.12	25.00	38.00 ♦	1.00
1220/2220G	24.066	31.500	220	30.00 ♦	38.00 ♦	25750	120	59.50	72.00	49.25	23.00	40.00	.62	58.00	22.25	49.00 ♦	23.00	27.00	42.00 ♦	1.12
1240/2240G	30.744	39.690	200	33.75 ♦	40.00 ♦	31720	125	64.25	78.50	52.75	24.75	44.50	.62	62.25	23.88	51.76 ♦	24.75	28.50	46.00 ♦	1.12
1260/2260G	39.753	48.510	190	37.00 ♦	43.50 ♦	39070	135	68.75	85.00	56.25	26.50	48.50	.62	66.75	25.50	56.00 ♦	26.50	30.50	50.00 ♦	1.12
1280/2280G	51.660	59.850	175	39.00 ♦	46.25 ♦	46540	155	73.50	87.50	57.25	27.24	52.50	.62	71.00	26.25	60.26 ♦	27.24	31.25	54.00 ♦	1.12
1300/2300G	59.850	72.450	165	42.00 ♦	50.00 ♦	54480	170	77.75	90.00	59.25	28.00	56.50	.62	75.25	27.00	64.50 ♦	28.00	31.50	58.00 ♦	1.12

★ See Page 13 for General Information and other Reference Notes.

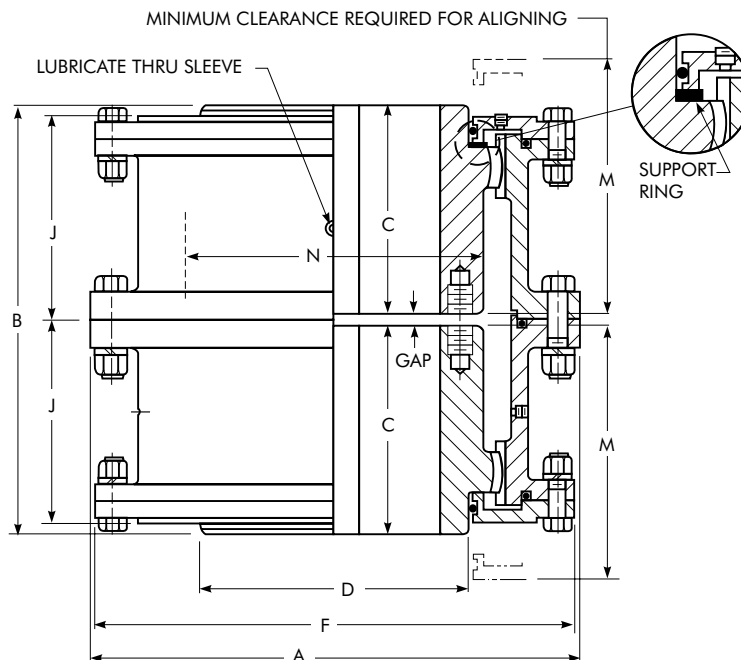
♦ Reduced shank diameter hubs are available when required bore permits. See Table 30, Page 52 for selection.

★ Dimension K may be an "as-cast" surface, depending upon coupling size and bore.

▲ The allowable speed for floating shaft assemblies is the smaller value of either the critical speed of the selected shaft or the cataloged speed of the selected size coupling. The allowable operating speed should be based on torque, misalignment, balance, and other operating requirements for the specific application. If higher speeds are required or special application requirements must be met, consult Falk for assistance.

Type GV20 Large Flanged Sleeve

Vertical Double Engagement/Dimensions — Inches



SIZE ★	Torque Rating lb-in (millions) †		Allow Speed rpm ‡	Max Bore One Rect Key ●	Min Bore ■	Cplg Wt With No Bore-lb	Lube Wt lb	A	B	C	D	F	J	M	N	Gap
	1000 Series	2000 Series														
1080/2080GV	1.506	2.070	1,750	10.50	4.000	1550	28	23.25	20.02	9.82	14.00	22.50	9.56	11.81	14.50	.375
1090/2090GV	1.997	2.791	1,550	11.25	4.500	2170	37	26.00	22.26	10.88	15.50	25.25	10.44	12.88	16.50	.500
1100/2100GV	2.747	3.919	1,450	12.75	5.000	2870	46	28.00	24.50	12.00	17.50	27.50	11.56	14.00	18.50	.500
1110/2110GV	3.654	5.393	1,330	14.00	5.500	3700	54	30.50	26.74	13.12	19.50	29.50	12.69	15.12	20.50	.500
1120/2120GV	4.914	6.880	1,200	15.25	6.000	4660	66	33.00	28.26	13.88	21.50	32.50	13.44	15.88	22.50	.500
1130/2130GV	6.363	8.190	1,075	16.25	6.500	5720	98	35.88	29.99	14.62	23.00	34.88	14.25	17.12	24.00	.750
1140/2140GV	8.064	10.080	920	17.75	7.000	6850	109	38.00	31.71	15.48	25.00	37.00	14.88	18.00	26.00	.750
1150/2150GV	9.702	11.970	770	19.00	7.500	8300	131	40.50	33.75	16.50	27.00	39.50	16.06	19.00	28.00	.750
1160/2160GV	11.592	14.490	650	21.00 ♦	10.000	10380	311	43.75	35.75	17.38	29.00	42.75	16.50	19.75	30.00 ♦	1.000
1180/2180GV	14.679	18.900	480	24.25 ♦	11.250	13800	370	48.00	37.00	18.00	33.00	47.00	17.12	20.50	34.00 ♦	1.000
1200/2200GV	18.963	25.200	370	27.00 ♦	12.500	18920	500	53.50	43.25	21.12	36.50	51.50	20.25	25.00	38.00 ♦	1.000
1220/2220GV	24.066	31.500	290	30.00 ♦	13.750	25760	703	59.50	47.00	23.00	40.00	58.00	22.25	27.00	42.00 ♦	1.000
1240/2240GV	30.744	39.690	270	33.75 ♦	15.000	32200	751	64.25	50.50	24.75	44.50	62.25	23.88	28.50	46.00 ♦	1.000
1260/2260GV	39.753	48.510	250	37.00 ♦	16.250	39240	887	68.75	54.00	26.50	48.50	66.75	25.50	30.50	50.00 ♦	1.000
1280/2280GV	51.660	59.850	230	39.00 ♦	17.500	46720	991	73.50	55.48	27.24	52.50	71.00	26.25	31.25	54.00 ♦	1.000
1300/2300GV	59.850	72.450	220	42.00 ♦	18.750	54690	1101	77.75	57.00	28.00	56.50	75.25	27.00	31.50	58.00 ♦	1.000

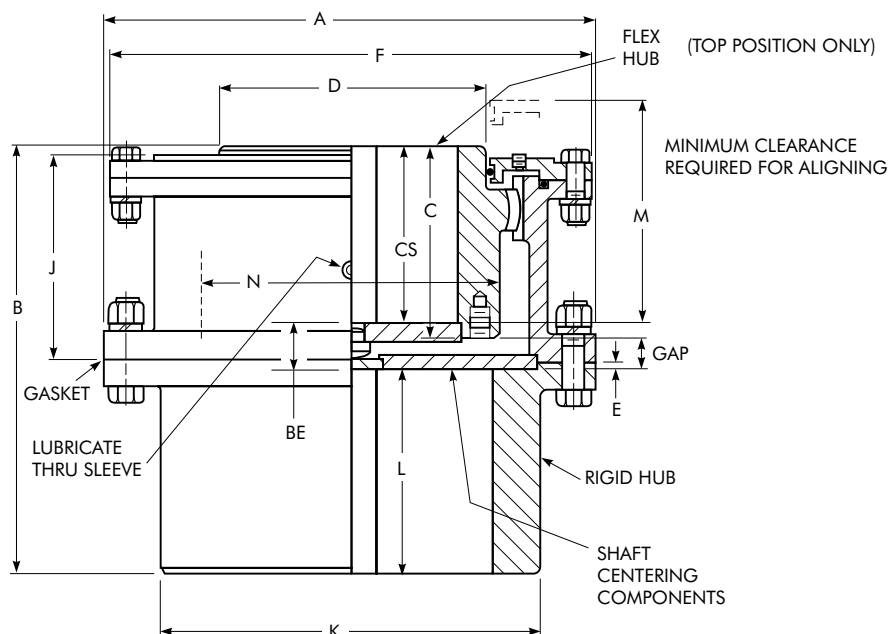
★ See Page 13 for General Information and other Reference Notes.

♦ Reduced shank diameter hubs are available where required bore permits. See Table 30, Page 52, for selections.

Type GV52 Large Flanged Sleeve

Vertical Single Engagement/Dimensions — Inches

IMPORTANT — When couplings are mounted on a floating shaft, do not exceed allowable shaft speed for the assembly.



SIZE ★	Torque Rating lb-in (millions) †		Allow Speed rpm ‡	Max Bore ♦ One Rect. Key		Min Bore Both Hubs ■	Cplg Wt With No Bore- lb	Lube Wt lb	A	B	C	D	E	F	J	K *	L	M	N	BE	CS	Gap
	1000 Series	2000 Series		Flex Hub	Rigid Hub																	
1080/2080G	1.506	2.070	1,750	10.50	13.25	4.00	1540	11	23.25	20.14	9.32	14.00	.31	22.50	9.56	17.75	9.80	11.31	14.50	1.52	8.82	1.02
1090/2090G	1.997	2.791	1,550	11.25	15.00	4.50	2170	14	26.00	22.33	10.31	15.50	.31	25.25	10.44	20.00	10.86	12.38	16.50	1.66	9.81	1.16
1100/2100G	2.747	3.919	1,450	12.75	15.50	5.00	2760	17	28.00	24.62	11.37	17.50	.38	27.50	11.56	20.88	12.00	13.38	18.50	1.90	10.75	1.28
1110/2110G	3.654	5.393	1,330	14.00	17.25	5.50	3610	20	30.50	26.88	12.49	19.50	.38	29.50	12.69	23.00	13.12	14.50	20.50	1.90	11.87	1.28
1120/2120G	4.914	6.880	1,200	15.25	19.00	6.00	4580	24	33.00	28.40	13.25	21.50	.38	32.50	13.44	25.50	13.87	15.25	22.50	1.90	12.63	1.28
1130/2130G	6.363	8.190	1,075	16.25	20.75	6.50	5670	37	35.88	30.00	13.86	23.00	.38	34.88	14.25	27.88	14.62	16.50	24.00	2.16	13.24	1.54
1140/2140G	8.064	10.080	920	17.75	22.00	7.00	6750	38	38.00	31.75	14.72	25.00	.38	37.00	14.88	29.50	15.50	17.38	26.00	2.16	14.10	1.54
1150/2150G	9.702	11.970	770	19.00	24.00	7.50	8270	46	40.50	33.75	15.74	27.00	.38	39.50	16.06	32.00	16.50	18.38	28.00	2.16	15.12	1.54
1160/2160G	11.592	14.490	650	21.00 ♦	26.00 ♦	10.00	10210	48	43.75	35.75	16.38	29.00	.50	42.75	16.50	34.88 ♦	17.38	19.00	30.00 ♦	2.77	15.63	2.02
1180/2180G	14.679	18.900	480	24.25 ♦	30.00 ♦	11.25	13380	56	48.00	37.00	17.00	33.00	.50	47.00	17.12	39.12 ♦	18.00	19.75	34.00 ♦	2.77	16.25	2.02
1200/2200G	18.963	25.200	370	27.00 ♦	33.25 ♦	12.50	18700	76	53.50	43.25	20.12	36.50	.50	51.50	20.25	43.12 ♦	21.12	24.25	38.00 ♦	2.77	19.38	2.02
1220/2220G	24.066	31.500	290	30.00 ♦	38.00 ♦	13.75	25750	120	59.50	47.12	21.88	40.00	.62	58.00	22.25	49.00 ♦	23.00	26.00	42.00 ♦	3.28	20.88	2.28
1240/2240G	30.744	39.690	270	33.75 ♦	40.00 ♦	15.00	31720	125	64.25	50.62	23.62	44.50	.62	62.25	23.88	51.76 ♦	24.75	27.50	46.00 ♦	3.28	22.62	2.28
1260/2260G	39.753	48.510	250	37.00 ♦	43.50 ♦	16.25	39070	135	68.75	54.12	25.38	48.50	.62	66.75	25.50	56.00 ♦	26.50	29.50	50.00 ♦	3.27	24.38	2.27
1280/2280G	51.660	59.850	230	39.00 ♦	46.25 ♦	17.50	46540	155	73.50	55.62	26.12	52.50	.62	71.00	26.25	60.26 ♦	27.24	30.25	54.00 ♦	3.27	25.12	2.27
1300/2300G	59.850	72.450	220	42.00 ♦	50.00 ♦	18.75	54480	170	77.75	57.12	26.88	56.50	.62	75.25	27.00	64.50 ♦	28.00	30.50	58.00 ♦	3.27	25.88	2.27

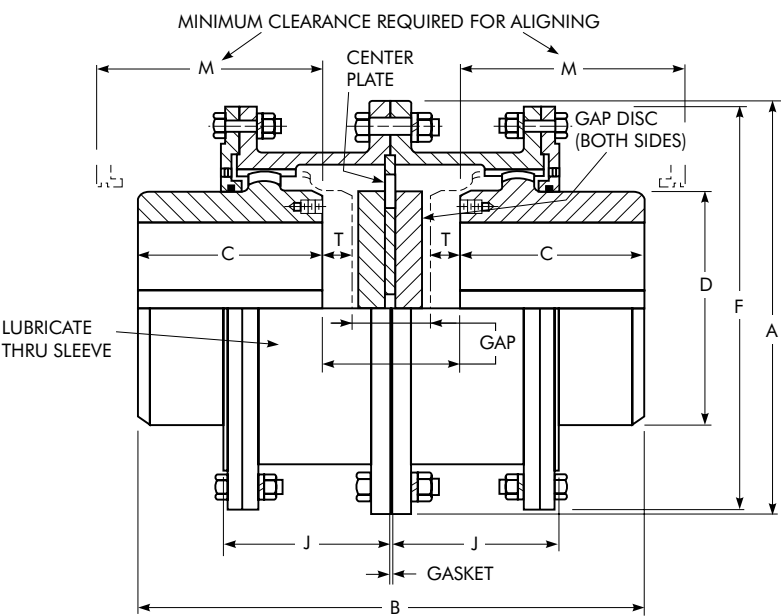
★ See Page 13 for General Information and other Reference Notes. Downward thrust capacity for Sizes 1010 thru 1030GV52 is 10,000 lbs.; Sizes 1035 thru 1070GV52 is 30,000 lbs. and Sizes 1080GV52 and larger is 87,000 lbs.

♦ Reduced shank diameter hubs are available where required bore permits. See Table 30, Page 52, for selections.

* Dimension K may be an "as-cast" surface, depending upon coupling size and bore.

Type GL20-4 Large Flanged Sleeve

Slide Double Engagement/Dimensions — Inches

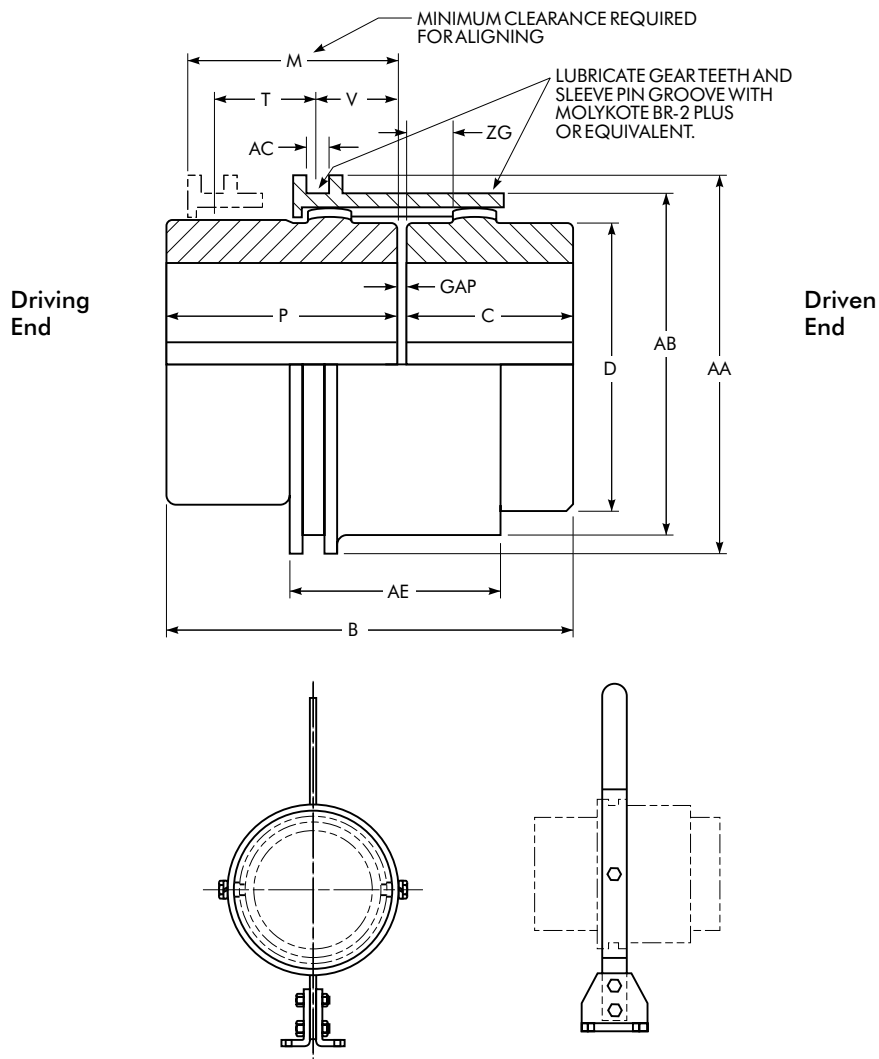


SIZE ★	Torque Rating lb-in (millions) †		Allow Speed rpm ‡	Max Bore One Rect Key ●	Min Bore ■	Cplg Wt With No Bore lb	Lube Wt lb	A	B Max	C	D	F	J	M	T (Max)		Gap	
	1000 Series	2000 Series													Each	Total	Min	Max
1080/2080GL	1.506	2.070	1,160	10.50	4.00	1510	21	23.25	29.14	9.82	14.00	22.50	9.56	11.81	.55	1.10	8.40	9.50
1090/2090GL	1.997	2.791	1,030	11.25	4.50	2080	27	26.00	31.22	10.88	15.50	25.25	10.44	12.88	.90	1.80	7.66	9.46
1100/2100GL	2.747	3.919	960	12.75	5.00	2750	33	28.00	35.18	12.00	17.50	27.50	11.56	14.00	.83	1.66	9.52	11.18
1110/2110GL	3.654	5.393	880	14.00	5.50	3550	39	30.50	39.14	13.12	19.50	29.50	12.69	15.12	.75	1.50	11.40	12.90
1120/2120GL	4.914	6.880	800	15.25	6.00	4490	46	33.00	41.78	13.88	21.50	32.50	13.44	15.88	.75	1.50	12.52	14.02

★ See Page 13 for General Information and other Reference Notes.

Type G70

Disconnect/Dimensions — Inches



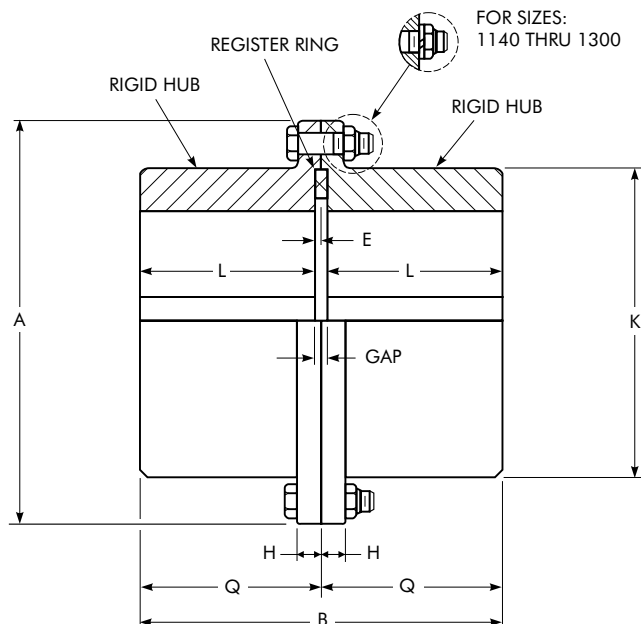
Optional hand operated shifter mechanism to shift and secure the proper position of the sleeve assembly.

SIZE ★	Torque Rating lb-in (millions) †	Allow Speed rpm ‡	Max Bore One Rect. Key ●	Min Bore ■	Cplg Wt With No Bore lb	B	C	D	M	P	T	V	AA	AB	AC	AE	ZG	Gap
1080G	1.506	110	10.50	4.00	1098	20.00	9.82	14.50	9.00	9.82	4.26	3.48	19.36	18.16	.76	8.50	1.63	.375
1090G	1.997	100	11.25	4.50	1538	22.02	10.88	16.50	10.38	10.64	5.14	3.74	21.90	20.30	1.00	9.88	2.08	.500
1100G	2.747	90	12.75	5.00	2108	24.50	12.00	18.50	11.14	12.00	5.40	4.24	23.90	22.30	1.00	10.64	2.08	.500
1110G	3.654	80	14.00	5.50	2769	26.74	13.12	20.50	11.66	13.12	5.66	4.50	25.80	24.20	1.00	11.16	2.08	.500
1120G	4.914	75	15.25	6.00	3436	27.66	13.88	22.50	11.50	13.28	5.88	4.12	28.00	26.40	1.00	11.00	2.06	.500
1130G	6.363	70	16.25	6.50	3922	27.44	13.34	24.00	11.36	13.34	5.58	4.04	30.64	28.64	1.24	10.86	1.26	.750
1140G	8.064	65	17.75	7.00	4690	28.32	13.78	26.00	11.36	13.78	5.58	4.04	32.60	30.60	1.24	10.86	1.06	.750
1150G	9.702	60	19.00	7.50	5782	30.32	14.78	28.00	11.36	14.78	5.58	4.04	34.74	32.74	1.24	10.86	.84	.750

★ See Page 13 for General Information and other Reference Notes.

Type G82 Large Flanged Sleeve

Rigid/Dimensions — Inches



SIZE ★	Torque Rating lb-in (millions) †	Allow Speed rpm ‡	Max Bore One Rect Key ●	Min Bore ■	Cplg Wt With No Bore-lb	A	B	E	H	K *	L	Q	Gap
1080G	1.506	1,750	13.25	4.00	1540	23.25	20.24	.32	1.24	17.75	9.80	10.12	.64
1090G	1.997	1,550	15.00	4.50	2170	26.00	22.36	.32	1.50	20.00	10.86	11.18	.64
1100G	2.747	1,450	15.50	5.00	2660	28.00	24.76	.38	1.74	20.88	12.00	12.38	.76
1110G	3.654	1,330	17.25	5.50	3530	30.50	27.00	.38	2.00	23.00	13.12	13.50	.76
1120G	4.914	1,200	19.00	6.00	4520	33.00	28.50	.38	2.12	25.50	13.87	14.25	.76
1130G	6.363	1,075	20.75	6.50	5640	35.88	30.00	.38	2.12	27.88	14.62	15.00	.76
1140G	8.064	920	22.00	7.00	6680	38.00	31.76	.38	2.12	29.50	15.50	15.88	.76
1150G	9.702	770	24.00	7.50	8260	40.50	33.76	.38	2.12	32.00	16.50	16.88	.76
1160G	11.592	650	26.00 ♦	10.00	10320	43.75	35.76	.50	2.25	34.88 ♦	17.38	17.88	1.00
1180G	14.679	480	30.00 ♦	11.25	13280	48.00	37.00	.50	2.25	39.12 ♦	18.00	18.50	1.00
1200G	18.963	370	33.25 ♦	12.50	18900	53.50	43.24	.50	2.50	43.12 ♦	21.12	21.62	1.00
1220G	24.066	290	38.00 ♦	13.75	26220	59.50	47.24	.62	2.50	49.00 ♦	23.00	23.62	1.24
1240G	30.744	270	40.00 ♦	15.00	32020	64.25	50.74	.62	3.00	51.76 ♦	24.75	25.38	1.24
1260G	39.753	250	43.50 ♦	16.25	39760	68.75	54.24	.62	3.00	56.00 ♦	26.50	27.12	1.24
1280G	51.660	230	46.25 ♦	17.50	47340	73.50	55.72	.62	3.24	60.26 ♦	27.24	27.86	1.24
1300G	59.850	220	50.00 ♦	18.75	55390	77.75	57.24	.62	3.24	64.50 ♦	28.00	28.62	1.24

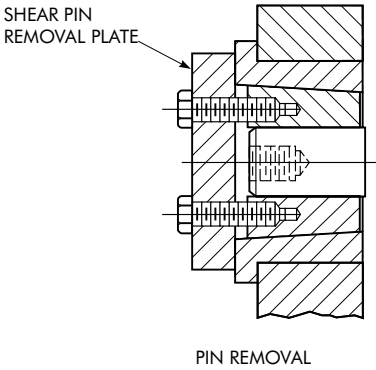
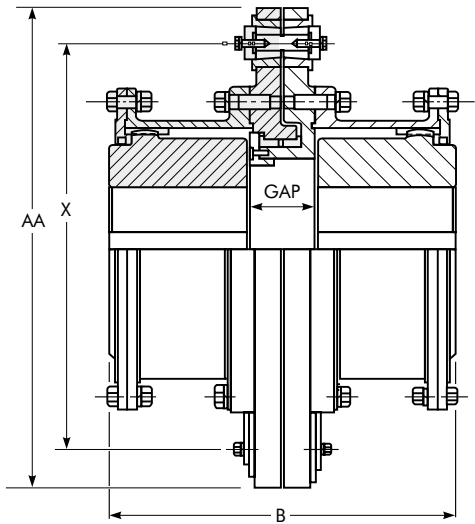
★ See Page 13 for General Information and other Reference Notes.

♦ Dimension K may be an "as-cast" surface, depending upon coupling size and bore.

* For standard shank diameter hubs.

Type GR20 Large Flanged Sleeve

Shear Pin Double Engagement/Dimensions — Inches



SIZE ★	1000 Series		2000 Series		Allow Speed rpm ‡	Max Bore One Rect Key ●	Min Bore ■	Approximate Values—Inches			
	Shear Torque lb-in x 10 6		Shear Torque lb-in x 10 6					AA	X	Gap	B
	Min	Max	Min	Max							
1080/2080GR	.46	2.08	.72	3.24	880	10.500	4.000	39.0	32.0	4.76	24.40
1090/2090GR	.63	2.82	.95	4.38	780	11.250	4.500	42.0	35.0	5.00	26.76
1100/2100GR	.88	3.97	1.38	6.16	730	12.750	5.000	44.0	37.0	5.76	29.76
1110/2110GR	1.21	5.46	1.9	8.5	670	14.000	5.500	46.0	39.0	6.50	32.74
1120/2120GR	1.56	7.04	2.4	10.8	600	15.250	6.000	49.0	42.0	7.00	34.76
1130/2130GR	1.91	8.7	2.89	13.02	540	16.250	6.500	53.0	45.0	7.26	36.50
1140/2140GR	2.28	10.3	3.57	16.07	460	17.750	7.000	55.5	47.0	7.76	38.76
1150/2150GR	2.65	11.9	4.07	18.31	390	19.000	7.500	58.5	49.5	8.00	41.00
1160/2160GR	3.4	15.1	5.05	22.73	330	21.000	10.000	63.0	53.0	9.00	43.76
1180/2180GR	4.41	19.78	6.61	29.67	240	24.250	11.250	65.0	57.0	9.50	45.50
1200/2200GR	5.73	26.70	8.82	39.56	190	27.000	12.500	71.0	63.0	10.26	52.50
1220/2220GR	7.50	33.63	11.02	49.45	150	30.000	13.750	76.0	68.0	10.76	56.76
1240/2240GR	9.26	41.54	13.89	62.31	140	33.750	15.000	81.0	73.0	12.00	61.50
1260/2260GR	11.46	51.43	16.98	76.16	130	37.000	16.250	86.0	78.0	12.76	65.76
1280/2280GR	13.67	61.32	20.95	93.96	120	39.000	17.500	91.0	83.0	13.26	67.76
1300/2300GR	16.54	74.18	25.36	113.75	110	42.000	18.750	95.0	87.0	14.26	70.26

★ See Page 13 for General Information and Reference Notes.

Engineering Data — Large Flanged Sleeve

TABLE 21 — Recommended Commercial Keys for Bores with One & Two Keys — Inches (Per ANSI B17.1 Standard)

Shaft Diameter		One Key	Shaft Diameter		Two Keys
Over	Thru		Over	Thru	
3.750	4.500	1.000 x 1.000	9.000	10.500	1.500 x 1.000
4.500	5.500	1.250 x 1.250	10.500	12.000	1.750 x 1.500
5.500	6.500	1.500 x 1.500	12.000	13.500	2.000 x 1.500
6.500	7.500	1.750 x 1.500	13.500	16.000	2.500 x 1.750
7.500	9.000	2.000 x 1.500	16.000	19.500	3.000 x 2.000
9.000	11.000	2.500 x 1.750	19.500	23.000	3.500 x 2.500
11.000	13.000	3.000 x 2.000	23.000	28.000	4.000 x 3.000
13.000	15.000	3.500 x 2.500	28.000	34.000	5.000 x 3.500
15.000	18.000	4.000 x 3.000	34.000	41.000	6.000 x 4.000
18.000	22.000	5.000 x 3.500	41.000	49.000	7.000 x 5.000
22.000	26.000	6.000 x 4.000	49.000	55.000	8.000 x 5.500
26.000	30.000	7.000 x 5.000			
30.000	34.000	8.000 x 5.500			
34.000	38.000	9.000 x 6.000			
38.000	42.000	10.000 x 7.000			
42.000	46.000	11.000 x 7.500			
46.000	50.000	12.000 x 8.000			
50.000	54.000	13.000 x 9.000			

Engineering Data — Large Flanged Sleeve

TABLE 22 — Type G Large Flanged Sleeve Flexible Hub Maximum Bores — Inches

SIZE ★	With One Key						With Two Keys						N ◆
	Square Key			Rectangular Key			Square Key			Rectangular Key			
	Max Bore ●	Y = X		Max Bore ●	Y = X		Max Bore ●	Y = X		Max Bore ●	Y = X		
		W	X		W	X		W	X		W	X	
1080/2080G	10.000	2.500	1.250	10.500	2.500	.875	10.500	1.500	.750	10.750	1.750	.750	14.500
1090/2090G	10.500	2.500	1.250	11.250	3.000	1.000	11.250	1.750	.875	12.000	1.750	.750	16.500
1100/2100G	12.000	3.000	1.500	12.750	3.000	1.000	12.750	2.000	1.000	13.500	2.000	.750	18.500
1110/2110G	13.250	3.500	1.750	14.000	3.500	1.250	14.000	2.500	1.250	15.250	2.500	.875	20.500
1120/2120G	14.750	3.500	1.750	15.250	4.000	1.500	15.750	2.500	1.250	16.750	3.000	1.000	22.500
1130/2130G	15.250	4.000	2.000	16.250	4.000	1.500	16.250	3.000	1.500	18.000	3.000	1.000	24.000
1140/2140G	17.000	4.000	2.000	17.750	4.000	1.500	18.000	3.000	1.500	19.500	3.000	1.000	26.000
1150/2150G	18.000	4.000	2.000	19.000	5.000	1.750	19.500	3.000	1.500	21.000	3.500	1.250	28.000
1160/2160G	20.000	5.000	2.500	21.000 ◆	5.000	1.750	21.000	3.500	1.750	23.000	3.500	1.250	30.000
1180/2180G	22.500	6.000	3.000	24.250 ◆	6.000	2.000	24.000	4.000	2.000	25.750	4.000	1.500	34.000
1200/2200G	25.750	6.000	3.000	27.000 ◆	7.000	2.500	27.500	4.000	2.000	28.750	5.000	1.750	38.000
1220/2220G	28.000	7.000	3.500	30.000 ◆	7.000	2.500	29.750	5.000	2.500	31.500	5.000	1.750	42.000
1240/2240G	31.000	8.000	4.000	33.750 ◆	8.000	2.750	33.250	5.000	2.500	35.000	6.000	2.000	46.000
1260/2260G	34.000	8.000	4.000	37.000 ◆	9.000	3.000	35.500	6.000	3.000	38.500	6.000	2.000	50.000
1280/2280G	36.000	9.000	4.500	39.000 ◆	10.000	3.500	39.000	6.000	3.000	41.000	6.000	2.000	54.000
1300/2300G	39.000	10.000	5.000	42.000 ◆	10.000	3.500	41.500	7.000	3.500	44.000	7.000	2.500	58.000

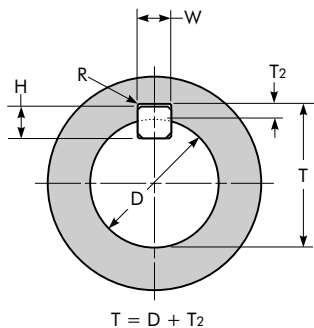
TABLE 23 — Type G Large Flanged Sleeve Rigid Hub Maximum Bores — Inches

SIZE ★	With One Key						With Two Keys						K ◆
	Square Key			Rectangular Key			Square Key			Rectangular Key			
	Max Bore ●	Y = X		Max Bore ●	Y = X		Max Bore ●	Y = X		Max Bore ●	Y = X		
		W	X		W	X		W	X		W	X	
1080/2080G	13.000	3.000	1.500	13.250	3.500	1.250	13.250	2.000	1.000	13.750	2.500	.875	17.750
1090/2090G	14.250	3.500	1.750	15.000	3.500	1.250	15.000	2.500	1.250	16.000	2.500	.875	20.000
1100/2100G	15.000	3.500	1.750	15.500	4.000	1.500	15.500	2.500	1.250	16.250	3.000	1.000	20.875
1110/2110G	16.250	4.000	2.000	17.250	4.000	1.500	17.000	3.000	1.500	18.000	3.000	1.000	23.000
1120/2120G	18.000	4.000	2.000	19.000	5.000	1.750	19.000	3.000	1.500	19.750	3.500	1.250	25.500
1130/2130G	19.250	5.000	2.500	20.750	5.000	1.750	20.500	3.500	1.750	21.750	3.500	1.250	27.875
1140/2140G	20.250	5.000	2.500	22.000	5.000	1.750	21.750	3.500	1.750	23.000	3.500	1.250	29.500
1150/2150G	22.000	5.000	2.500	24.000	6.000	2.000	23.500	4.000	2.000	24.750	4.000	1.500	32.000
1160/2160G	24.500	6.000	3.000	26.000	6.000	2.000	26.000	4.000	2.000	27.750	4.000	1.500	34.875
1180/2180G	27.750	7.000	3.500	30.000	7.000	2.500	28.750	5.000	2.500	31.000	5.000	1.750	39.125
1200/2200G	30.500	8.000	4.000	33.250	8.000	2.750	32.500	5.000	2.500	34.000	5.000	1.750	43.125
1220/2220G	35.000	9.000	4.500	38.000	9.000	3.000	37.000	6.000	3.000	39.750	6.000	2.000	49.000
1240/2240G	37.500	9.000	4.500	40.000	10.000	3.500	39.250	6.000	3.000	41.000	6.000	2.000	51.750
1260/2260G	40.000	10.000	5.000	43.500	11.000	3.750	41.500	7.000	3.500	44.500	7.000	2.500	56.000
1280/2280G	42.750	11.000	5.000	46.250	12.000	4.000	45.500	7.000	3.500	48.500	7.000	2.500	60.250
1300/2300G	46.000	11.000	5.500	50.000	12.000	4.000	49.000	7.000	3.500	52.000	8.000	2.750	64.500

★ See Page 13 for General Information and other Reference Notes.

◆ See Table 30, Page 52 for maximum bores of couplings with reduced shank diameter hubs.

■ Shaded areas indicate maximum bores for standard keys recommended in Table 35.


TABLE 24 — Recommended Bore Tolerances Falk Steel Coupling Hubs – Millimeters

Shaft Diameter (ISO/R775-1969)		Bore Diameter Tolerance		
Nominal	Tolerance	Clearance	Transitional	Interference
6 to 30	i6/k6 ◆	F7	H7	M6
Over 30 to 50	k6	F7	H7	K6
Over 50 to 80	m6	F7	H7	K7
Over 80 to 100	m6	F7	H7	M7
Over 100 to 200	m6	F7	H7	P7
Over 200 to 355	m6	F7	H7	R7
Over 355 to 500	m6	F7	H7	R8

◆ Per DIN 748 — Differs with ISO/R775.

Engineering Data — Large Flanged Sleeve

TABLE 25 — Flange Details

SIZE	A	B	C	E	DD	F	G	H	J Bolts No. Dia x Length (Per Flange)	K Bolts No. Dia x Length	T
1080/2080G	23.25	20.750	17.375	.31	.25	22.50	20.750	1.25	16- .875 x 3.25	16- 1.125 x 4.125	17.373
1090/2090G	26.00	23.250	19.500	.31	.25	25.25	23.250	1.50	18- 1.000 x 3.50	18- 1.250 x 4.75	19.498
1100/2100G	28.00	25.250	21.500	.38	.31	27.50	25.250	1.75	18- 1.000 x 3.50	18- 1.250 x 5.25	21.498
1110/2110G	30.50	27.500	23.500	.38	.31	29.50	27.500	2.00	18- 1.000 x 3.50	18- 1.500 x 6.00	23.498
1120/2120G	33.00	30.000	25.750	.38	.31	32.50	30.000	2.12	18- 1.125 x 3.50	18- 1.500 x 6.25	25.748
1130/2130G	35.88	32.375	27.875	.38	.31	34.88	32.375	2.12	18- 1.250 x 4.50	18- 1.500 x 6.25	27.873
1140/2140G	38.00	34.500	29.875	.38	.31	37.00	34.500	2.12	18- 1.250 x 4.50	18- 1.750 x 6.50	29.873
1150/2150G	40.50	36.750	32.125	.38	.31	39.50	36.750	2.12	20- 1.250 x 4.50	20- 1.750 x 6.50	32.123
1160/2160G	43.75	39.750	34.000	.50	.38	42.75	39.750	2.25	20- 1.250 x 4.50	20- 2.000 x 7.00	33.996
1180/2180G	48.00	44.000	38.750	.50	.38	47.00	44.000	2.25	22- 1.250 x 4.50	22- 2.000 x 7.00	38.746
1200/2200G	53.50	48.500	42.750	.50	.38	51.50	48.500	2.50	22- 1.500 x 5.00	22- 2.250 x 7.75	42.746
1220/2220G	59.50	54.500	47.750	.62	.50	58.00	54.500	2.50	24- 1.500 x 5.00	24- 2.250 x 7.75	47.746
1240/2240G	64.25	58.250	50.750	.62	.50	62.25	58.250	3.00	22- 1.500 x 5.00	22- 2.750 x 9.75	50.746
1260/2260G	68.75	62.750	54.750	.62	.50	66.75	62.750	3.00	24- 1.500 x 5.00	24- 2.750 x 9.75	54.746
1280/2280G	73.50	67.000	58.750	.62	.50	71.00	67.000	3.25	22- 1.500 x 5.00	22- 3.000 x 10.50	58.746
1300/2300G	77.75	71.250	62.750	.62	.50	75.25	71.250	3.25	24- 1.500 x 5.00	24- 3.000 x 10.50	62.746

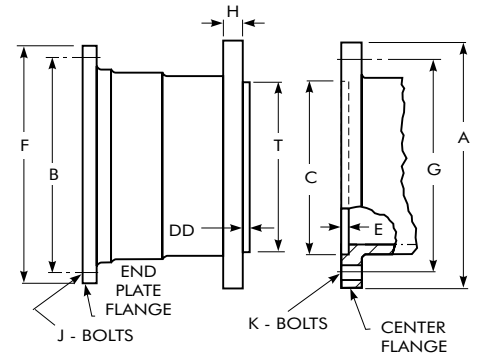


TABLE 26 — Sleeve Jack Screw Holes

SIZE	B.C.	Tap Size
1080/2080G	20.750	.875-9 UNC
1090/2090G	23.250	1.000-8 UNC
1100/2100G	25.250	1.000-8 UNC
1110/2110G	27.500	1.000-8 UNC
1120/2120G	30.000	1.125-7 UNC
1130/2130G	32.375	1.250-7 UNC
1140/2140G	34.500	1.250-7 UNC
1150/2150G	36.750	1.250-7 UNC
1160/2160G	39.750	1.250-7 UNC
1180/2180G	44.000	1.250-7 UNC
1200/2200G	48.500	1.500-6 UNC
1220/2220G	54.500	1.500-6 UNC
1240/2240G	58.250	1.500-6 UNC
1260/2260G	62.750	1.500-6 UNC
1280/2280G	67.000	1.500-6 UNC
1300/2300G	71.250	1.500-6 UNC

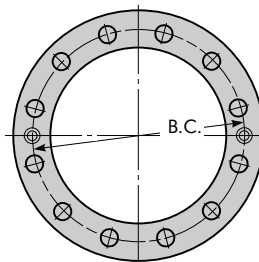
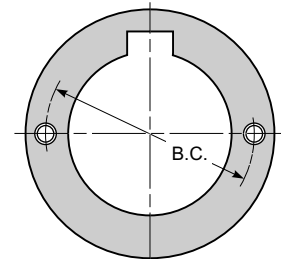


TABLE 27 — Flex Hub Puller Bolt Holes for Standard Shank Diameter Hubs

SIZE ♦	B.C.	Tap Size — UNC
1080/2080G	12.500	1.000-8 x 1.18
1090/2090G	14.000	1.250-7 x 1.50
1100/2100G	15.500	1.500-6 x 1.75
1110/2110G	17.500	1.500-6 x 1.75
1120/2120G	19.500	1.500-6 x 1.75
1130/2130G	21.000	1.500-6 x 1.75
1140/2140G	23.000	1.500-6 x 1.75
1150/2150G	25.000	1.500-6 x 1.75
1160/2160G	27.000	1.500-6 x 1.75
1180/2180G	30.500	1.500-6 x 1.75
1200/2200G	34.000	2.000-4.5 x 2.38
1220/2220G	37.500	2.000-4.5 x 2.38
1240/2240G	41.000	2.000-4.5 x 2.38
1260/2260G	45.000	2.000-4.5 x 2.38
1280/2280G	49.000	2.000-4.5 x 2.38
1300/2300G	53.000	2.000-4.5 x 2.38



♦ Refer to Table 31 for flex hub puller data on reduced shank diameter hubs, Sizes 1160/2160 thru 1300/2300.

TABLE 28 — Torsional Stiffness – lb-in/Radian (10⁶)

SIZE	Half Coupling				Complete Coupling			
	Flex Half	Rigid Half			Type G20	Type G52		
		Large Shank	Medium Shank	Small Shank		Large Shank	Medium Shank	Small Shank
1080/2080G	4520	12500	...	...	2260	3320	...	...
1090/2090G	6160	18200	...	...	3080	4600	...	...
1100/2100G	7800	19900	...	...	3900	5600	...	...
1110/2110G	9460	26800	...	...	4730	7000	...	...
1120/2120G	12600	38100	...	...	6300	9470	...	...
1130/2130G	15880	51200	...	...	7940	12100	...	...
1140/2140G	18760	60500	...	...	9380	14300	...	...
1150/2150G	22000	77900	...	...	11100	17300	...	...
1160/2160G	30600	106900	65600	26500	15300	23800	20900	14200
1180/2180G	46600	162100	96800	41600	23300	36300	31500	22000
1200/2200G	53000	203600	121300	53300	26500	42000	36800	26600
1220/2220G	95800	308500	158200	72100	47900	73100	59700	41100
1240/2240G	93000	361000	204500	92900	46500	73900	63900	46500
1260/2260G	116800	459000	256600	120200	58400	93100	80300	59300
1280/2280G	153800	599500	331200	159800	76900	122400	105000	78400
1300/2300G	196000	762500	417200	205900	98000	155900	133400	100400

TABLE 29 — WR² Values—lb-in²

WR² values are based on hubs with no bore.

SIZE	Type G20 Double Engagement	Type G52 Single Engagement
1080/2080G	75,835	72,330
1090/2090G	136,510	129,990
1100/2100G	210,965	189,795
1110/2110G	318,700	295,605
1120/2120G	470,600	445,750
1130/2130G	677,715	644,475
1140/2140G	920,940	874,830
1150/2150G	1,245,820	1,199,785
1160/2160G	1,798,710	1,755,170
1180/2180G	2,903,395	2,832,400
1200/2200G	4,971,175	4,869,620
1220/2220G	8,459,975	8,246,620
1240/2240G	12,184,330	11,935,924
1260/2260G	16,701,335	16,689,170
1280/2280G	22,679,330	22,877,185
1300/2300G	29,876,435	30,100,765

Engineering Data — Large Flanged Sleeve

Data for couplings with reduced shank diameter hubs:

Depending upon bore, a reduced shank diameter hub (Dimension "N" or "K") is available for each coupling, sizes 1160/2160 thru 1300/2300. This provides reduced weight and WR².

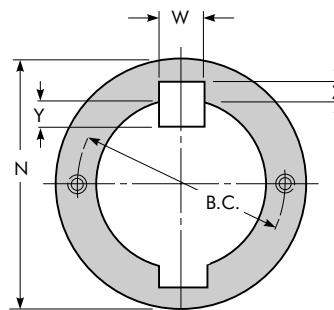


TABLE 30 — Bore Ranges for Reduced Shank Diameter Hubs — Inches

SIZE ★	G20								G52								
	Flex Hub			N ♦	Weight * – lbs		Coupling WR2 (lb-in²)	Rigid Hub			K ♦	Weight * –lbs			Coupling WR2 (lb-in²)		
	Max Bore – 2 Rectangular Keys •		Min. Bore		Sleeves, End Rings and Fasteners	Flex Hub With No Bore (Each)		Max Bore – 2 Rectangular Keys •		Min. Bore		Sleeve End Ring and Fastener	Flex Hub With No Bore (Each)	Rigid Hub With No Bore (Each)			
	Bore	Keyway						Bore	Keyway								
		Y=X							Y = X								
		W	X						W	X							
1160/2160G	19.25 14.25	3.000 2.500	1.000 .875	13.00 10.00	25.50 20.75	3060	3060 2630	1,607,330 1,492,100	23.75 17.00	4.000 3.000	1.500 1.000	14.75 10.00	31.00 23.50	1650	3060 2630	4190 3050	1,428,355 1,155,020
1180/2180G	22.25 17.00	3.500 3.000	1.250 1.000	15.00 11.25	29.50 24.00	3620	4140 3530	2,621,895 2,397,515	26.75 19.50	4.000 3.000	1.500 1.000	16.50 11.25	34.50 26.50	1950	4140 3530	5320 3940	2,294,025 1,856,755
1200/2200G	26.00 19.75	4.000 3.500	1.500 1.250	17.00 12.50	33.50 27.25	4850	6060 5050	4,493,550 3,995,335	29.75 22.00	5.000 3.500	1.750 1.250	18.50 12.50	38.00 29.50	2610	6060 5050	7570 5620	3,936,305 3,149,480
1220/2220G	28.75 22.75	5.000 3.500	1.750 1.250	19.25 13.75	37.50 30.75	7180	8170 6820	7,774,455 6,948,365	33.00 24.00	5.000 4.000	1.750 1.500	20.25 13.75	41.50 32.50	3800	8170 6820	9850 7410	6,526,670 5,280,030
1240/2240G	32.50 25.00	5.000 4.000	1.750 1.500	21.25 15.00	41.50 34.00	8010	10640 8770	11,114,330 9,731,830	35.25 26.75	6.000 4.000	2.000 1.500	22.25 15.00	45.00 35.50	4360	10640 8770	12550 9400	9,596,235 7,633,675
1260/2260G	35.25 28.00	6.000 4.000	2.000 1.500	23.25 16.25	45.50 37.25	8770	13540 11040	15,220,935 15,680,760	38.75 28.75	6.000 5.000	2.000 1.750	24.00 16.25	48.50 38.50	4770	13540 11040	15460 11680	13,293,705 10,383,120
1280/2280G	39.00 30.00	6.000 5.000	2.000 1.750	25.50 17.50	49.50 40.75	10200	16340 13350	20,783,330 17,591,530	41.00 31.00	6.000 5.000	2.000 1.750	26.00 17.50	52.00 41.50	5550	16340 13350	18340 14070	18,070,985 14,156,425
1300/2300G	41.25 33.00	7.000 5.000	2.500 1.750	27.50 18.75	53.50 44.00	11430	19500 15870	27,459,315 23,041,885	43.00 33.75	7.000 5.000	2.500 1.750	27.75 18.75	55.50 44.50	6210	19500 15870	21320 16460	23,791,805 18,573,830

★ See Page 13 for General Information and other Reference Notes.

♦ Hubs with the least possible "K" or "N" dimension for the required bore are normally furnished.

* Total weight of coupling varies with "K" or "N" dimension of rigid and flex hub selection. Add weight of selected hubs to "Sleeve, End Ring and Fasteners" weight.

TABLE 31 — Flex Hub Puller Bolt Holes for Reduced Shank Diameter Hubs — Inches

SIZE ★	Inches			SIZE ★	Inches		
	N	B.C.	Tap Size		N	B.C.	Tap Size
1160/2160G	25.50 20.75	22.50 17.75	1.500-6 UNC	1240/2240G	41.50 34.00	36.50 29.00	2-4.5 UNC
1180/2180G	29.50 24.00	26.00 20.50	1.500-6 UNC	1260/2260G	45.50 37.25	40.50 32.25	2-4.5 UNC
1200/2200G	33.50 27.25	29.50 23.25	2-4.5 UNC	1280/2280G	49.50 40.75	44.50 35.75	2-4.5 UNC
1220/2220G	37.50 30.75	33.00 26.25	2-4.5 UNC	1300/2300G	53.50 44.00	48.50 39.00	2-4.5 UNC

Engineering Data — Large Flanged Sleeve

Standard Filleted Keyways & Chamfered Keys

It is general practice in industry to supply coupling hubs with minimum fillet radii in the keyway corners to permit the use of standard commercial keys without chamfered edges. Falk will cut filleted keyways when specified in accordance with the established industry standards as shown in [Table 32](#) at no extra charge.

TABLE 32— Standard Filleted Keyways & Chamfered Keys

Nominal Bore		Key		Hub Keyway		
Over	Thru	Size (Nominal)	45° Chamfer Suggested	Width	Depth ♦ +.010 to .+.020	Fillet Radii
4.000	4.500	1.000 x 1.000	.078	1.000	+.0030 –.0000	.062
4.500	5.500	1.250 x 1.250	.156	1.2500	+.0035	.125
5.500	6.500	1.500 x 1.500	.156	1.5000	–.0000	.125
6.500	7.500	1.750 x 1.500	.156	1.750	+.0040	.125
7.500	9.000	2.000 x 1.500	.156	2.000	–.0000	.125
9.000	11.000	2.500 x 1.750	.156	2.500	+.0045	.125
11.000	13.000	3.000 x 2.000	.219	3.000	–.0000	.188
13.000	15.000	3.500 x 2.500	.219	3.500	+.0050	.188
15.000	18.000	4.000 x 3.000	.281	4.000	–.0000	.250
18.000	22.000	5.000 x 3.500	.281	5.000	+.0060	.250
22.000	26.000	6.000 x 4.000	.406	6.000	–.0000	.375
26.000	30.000	7.000 x 5.000	.406	7.000	+.0060 –.0000	.375

♦ Shallow keyway depth must equal or exceed $\frac{2}{3}$ of the full keyway depth of the square keys shown above.

Engineering Data — Large Flanged Sleeve

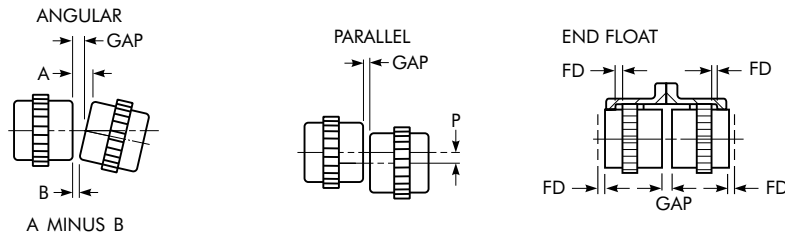


TABLE 33 — Misalignment & End Float – Double Engagement Couplings

SIZE	Angular Misalignment Limits						Parallel Misalignment Limits						End Float		
	Installation		Operating ♦		Static ♦		Installation		Operating ♦		Static ♦		Std FD (Min)	Normal Gap +/-10%	Physical Limit (Min) (2) FD + Gap
	A Minus B Inches	Degrees Per Mesh	A Minus B Inches	Degrees Per Mesh	A Minus B Inches	Degrees Per Mesh	P Inches	Degrees Per Mesh	P Inches	Degrees Per Mesh	P Inches	Degrees Per Mesh			
1080/2080	.032	1/16°	.190	3/8°	.380	3/4°	.016	1/16°	.097	3/8°	.193	3/4°	.170	.375	.715
1090/2090	.036	1/16°	.216	3/8°	.432	3/4°	.017	1/16°	.104	3/8°	.206	3/4°	.248	.500	.996
1100/2100	.040	1/16°	.242	3/8°	.484	3/4°	.019	1/16°	.117	3/8°	.234	3/4°	.248	.500	.996
1110/2110	.045	1/16°	.268	3/8°	.537	3/4°	.022	1/16°	.130	3/8°	.259	3/4°	.248	.500	.996
1120/2120	.049	1/16°	.295	3/8°	.590	3/4°	.023	1/16°	.138	3/8°	.277	3/4°	.248	.500	.996
1130/2130	.052	1/16°	.314	3/8°	.628	3/4°	.024	1/16°	.142	3/8°	.285	3/4°	.345	.750	1.440
1140/2140	.057	1/16°	.340	3/8°	.681	3/4°	.025	1/16°	.150	3/8°	.299	3/4°	.345	.750	1.440
1150/2150	.061	1/16°	.367	3/8°	.733	3/4°	.027	1/16°	.164	3/8°	.328	3/4°	.345	.750	1.440
1160/2160	.063	1/16°	.380	3/8°	.759	3/4°	.028	1/16°	.166	3/8°	.331	3/4°	.460	1.000	1.920
1180/2180	.072	1/16°	.432	3/8°	.864	3/4°	.029	1/16°	.172	3/8°	.344	3/4°	.460	1.000	1.920
1200/2200	.080	1/16°	.478	3/8°	.956	3/4°	.035	1/16°	.208	3/8°	.416	3/4°	.460	1.000	1.920
1220/2220	.087	1/16°	.524	3/8°	1.047	3/4°	.039	1/16°	.231	3/8°	.462	3/4°	.460	1.000	1.920
1240/2240	.097	1/16°	.582	3/8°	1.165	3/4°	.042	1/16°	.252	3/8°	.504	3/4°	.460	1.000	1.920
1260/2260	.106	1/16°	.635	3/8°	1.278	3/4°	.046	1/16°	.273	3/8°	.547	3/4°	.460	1.000	1.920
1280/2280	.115	1/16°	.687	3/8°	1.374	3/4°	.047	1/16°	.281	3/8°	.563	3/4°	.460	1.000	1.920
1300/2300	.123	1/16°	.740	3/8°	1.479	3/4°	.048	1/16°	.290	3/8°	.579	3/4°	.460	1.000	1.920

♦ These maximum operating alignment limits are each based on 3/8" per flex half coupling. Combined values of parallel and angular misalignment should not exceed 3/8". Type GL slide couplings are limited to 1/4" per flex half. Application requirements in excess of these values should be referred to Falk for review.

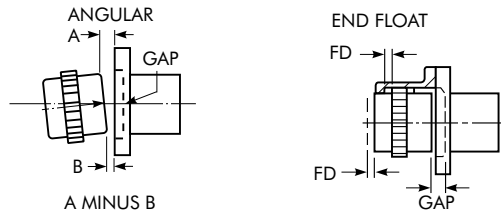


TABLE 34 — Misalignment & End Float – Single Engagement Couplings

SIZE	Angular Misalignment Limits *						End Float			
	Installation		Operating		Static		Std FD (Min)	Normal Shaft Gap	Normal Face Gap (X)	Physical Limit (Min) FD + Gap
	A Minus B Inches	Degrees Per Mesh	A Minus B Inches	Degrees Per Mesh	A Minus B Inches	Degrees Per Mesh				
1080/2080	.032	1/8°	.095	3/8°	.190	3/4°	.180	.500	.180	.680
1090/2090	.036	1/8°	.108	3/8°	.216	3/4°	.258	.562	.242	.820
1100/2100	.040	1/8°	.121	3/8°	.242	3/4°	.255	.625	.245	.880
1110/2110	.045	1/8°	.134	3/8°	.268	3/4°	.255	.625	.245	.880
1120/2120	.049	1/8°	.147	3/8°	.295	3/4°	.255	.625	.245	.880
1130/2130	.052	1/8°	.157	3/8°	.314	3/4°	.340	.750	.370	1.090
1140/2140	.057	1/8°	.170	3/8°	.340	3/4°	.340	.750	.370	1.090
1150/2150	.061	1/8°	.183	3/8°	.367	3/4°	.340	.750	.370	1.090
1160/2160	.063	1/8°	.190	3/8°	.380	3/4°	.450	1.000	.500	1.450
1180/2180	.072	1/8°	.216	3/8°	.432	3/4°	.450	1.000	.500	1.450
1200/2200	.080	1/8°	.239	3/8°	.478	3/4°	.450	1.000	.500	1.450
1220/2220	.087	1/8°	.262	3/8°	.524	3/4°	.450	1.125	.500	1.575
1240/2240	.097	1/8°	.291	3/8°	.582	3/4°	.450	1.125	.500	1.575
1260/2260	.106	1/8°	.317	3/8°	.635	3/4°	.450	1.125	.500	1.575
1280/2280	.115	1/8°	.344	3/8°	.687	3/4°	.445	1.125	.505	1.575
1300/2300	.123	1/8°	.370	3/8°	.740	3/4°	.445	1.125	.505	1.575

▲ Do not use single engagement couplings to compensate for parallel offset misalignment.

Engineering Data — All Gear Couplings

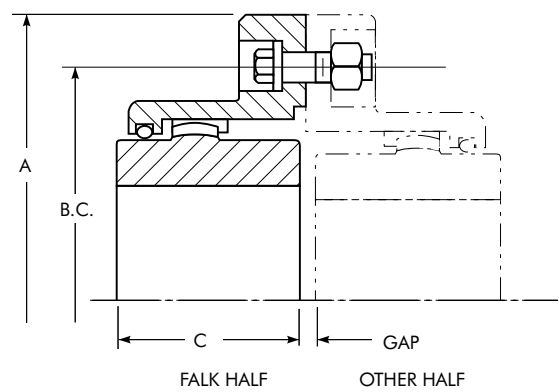
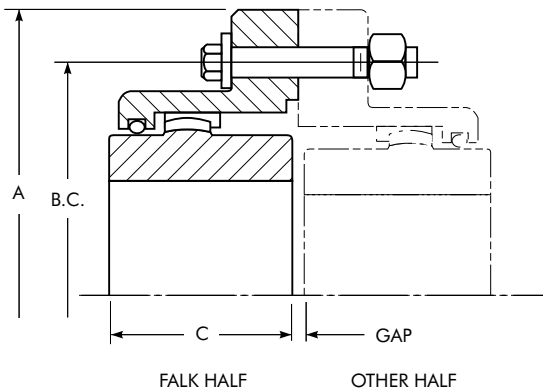
TABLE 35 — Recommended Hub Bores for Clearance & Interference Fit

Shaft Dia	Clearance Fit *		Interference Fit ♦		Shaft Dia	Clearance Fit *		Interference Fit ♦		Shaft Dia	Interference Fit ♦		Shaft Dia	Interference Fit ♦	
	Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Interference		Hub Bore	Interference
+ .0000 – .0005	+ .0010 – .0000	.0000 .0015	+ .0005 – .0000	.0000 .0010	+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0015 – .0000	.0010 .0035	+ .0000 – .0010	+ .0015 – .0000	.0015 .0040	+ .0000 – .0002	+ .0003 – .0000	.0110 .0160
.5000	.5000		.4990		4.0625	4.0625		4.0590		6.7500	6.7460		26.500	26.4840	
.5625	.5625		.5615		4.1250	4.1250		4.1215		7.0000	6.9960		27.000	26.9840	
.6250	.6250		.6240		4.1875	4.1875		4.1840					27.500	27.4840	
.6875	.6875		.6865		4.2500	4.2500		4.2465		+ .0000 – .0010	+ .0020 – .0000	.0020 .0050	28.000	27.9840	
.7500	.7500		.7490		4.3125	4.3125		4.3090					28.500	28.4830	.0120
.8125	.8125		.8115		4.3750	4.3750		4.3715		7.250	7.2450		29.000	28.9830	.0170
.8750	.8750		.8740		4.4375	4.4375		4.4340		7.500	7.4950		29.500	29.4830	
.9375	.9375		.9365		4.5000	4.5000		4.4965		7.750	7.7450		30.000	29.9830	
1.0000	1.0000		.9990		4.5625	4.5625		4.5590		8.000	7.9950		+ .0000 – .0003	+ .0004 – .0000	.0110 .0180
1.0625	1.0625		1.0615		4.6250	4.6250		4.6215		8.250	8.2445	.0025	30.500	30.4820	
1.1250	1.1250		1.1240		4.6875	4.6875		4.6840		8.500	8.4945	.0055	31.000	30.9820	
1.1875	1.1875		1.1865		4.7500	4.7500		4.7465		8.750	8.7445				
1.2500	1.2500		1.2490		4.8125	4.8125		4.8090		9.000	8.9945		31.500	31.4810	.0120
1.3125	1.3125		1.3115		4.8750	4.8750		4.8715		9.250	9.2440	.0030	32.000	31.9810	.0190
1.3750	1.3750		1.3740		4.9375	4.9375		4.9340		9.500	9.4940	.0060	32.500	32.4810	
1.4375	1.4375		1.4365		5.0000	5.0000		4.9965		9.750	9.7440		33.000	32.9810	
1.5000	1.5000		1.4990							10.000	9.9940		33.500	33.4800	.0130
+ .0000 – .0010	+ .0010 – .0000	.0000 .0020	+ .0005 – .0000	.0000 .0015	5.0625	5.0625		5.0585	.0015	10.250	10.2435	.0035	34.000	33.9800	.0200
1.5625	1.5625		1.5610		5.1250	5.1250		5.1210	.0040	10.500	10.4935	.0065	34.500	34.4800	
1.6250	1.6250		1.6235		5.1875	5.1875		5.1835		10.750	10.7435		35.000	34.9790	
1.6875	1.6875		1.6860		5.2500	5.2500		5.2460		11.000	10.9935		+ .0000 – .0003	+ .0004 – .0000	.0140 .0210
1.7500	1.7500		1.7485		5.3125	5.3125		5.3085		11.250	11.2430	.0040	35.500	35.4790	
1.8125	1.8125		1.8110		5.3750	5.3750		5.3710		11.500	11.4930	.0070	36.000	36.9790	
1.8750	1.8750		1.8735		5.4375	5.4375		5.4335		11.750	11.7430		36.500	36.4790	
1.9375	1.9375		1.9360		5.5000	5.5000		5.4960		12.000	11.9930		37.000	36.9790	
2.0000	2.0000		1.9985		5.5625	5.5625		5.5585		12.500	12.4925	.0045	+ .0000 – .0003	+ .0004 – .0000	.0150 .0220
+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0005 – .0000	.0000 .0015	5.6250	5.6250		5.6210		13.000	12.9925	.0075	37.500	37.4780	
2.0625	2.0625		2.0610		5.6875	5.6875		5.6835		13.500	13.4920	.0050	38.000	37.9780	
2.1250	2.1250		2.1235		5.7500	5.7500		5.7460		14.000	13.9920	.0080	38.500	38.4780	
2.1875	2.1875		2.1860		5.8125	5.8125		5.8085		14.500	14.4915	.0055	39.000	38.9780	
+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0010 – .0000	.0000 .0020	5.8750	5.8750		5.8710		15.000	14.9915	.0085	39.500	39.4770	.0160
2.2500	2.2500		2.2480		5.9375	5.9375		5.9335		+ .0000 – .0001	+ .0025 – .0000	.0055 .0090	40.000	39.9770	.0230
2.3125	2.3125		2.3105		6.0000	6.0000		5.9960		15.500	15.4910		+ .0000 – .0004	+ .0005 – .0000	.0150 .0240
2.3750	2.3750		2.3730		6.0625	6.0625		6.2460		16.000	15.9910		40.500	40.4760	
2.4375	2.4375		2.4355		6.5000	6.5000		6.4960		16.500	16.4905	.0060	41.000	40.9760	
2.5000	2.5000		2.4980							17.000	16.9905	.0095	41.500	41.4760	
2.5625	2.5625		2.5605							17.500	17.4895	.0070	42.000	41.9760	
2.6250	2.6250		2.6230							18.000	17.9895	.0105	42.500	42.4750	.0160
2.6875	2.6875		2.6855							18.500	18.4890	.0075	43.000	42.9750	.0250
2.7500	2.7500		2.7480							19.000	18.9890	.0110	43.500	43.4750	
2.8125	2.8125		2.8105							+ .0000 – .0002	+ .0003 – .0000	.0080 .0130	44.000	43.9750	
2.8750	2.8750		2.8730							20.000	19.9880	.0120	44.500	44.4740	.0170
2.9375	2.9375		2.9355							20.500	20.4870		45.000	44.9740	.0260
3.0000	3.0000		2.9980							21.000	20.9870		45.500	45.4740	
+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0010 – .0000	.0005 .0025						21.500	21.4870		46.000	45.9740	
3.0625	3.0625		3.0600							22.000	21.9870		46.500	46.4730	.0180
3.1250	3.1250		3.1225							22.500	22.4860	.0090	47.000	46.9730	.0270
3.1875	3.1875		3.1850							23.000	22.9860	.0140	47.500	47.4730	
3.2500	3.2500		3.2475							23.500	23.4860		48.000	47.9730	
3.3125	3.3125		3.3100							24.000	23.9860		48.500	48.4720	.0190
3.3750	3.3750		3.3725							+ .0000 – .0002	+ .0003 – .0000	.0100 .0150	49.000	48.9720	.0280
3.4375	3.4375		3.4350							24.500	24.4850		49.500	49.4720	
3.5000	3.5000		3.4975							25.000	24.9850		50.000	49.9720	
3.5625	3.5625		3.5600							25.500	25.4850		50.500	50.4710	.0200
3.6250	3.6250		3.6225							26.000	25.9850		51.000	50.9710	.0290
3.6875	3.6875		3.6850										51.500	51.4710	
3.7500	3.7500		3.7475										52.000	51.9710	
3.8125	3.8125		3.8100										52.500	52.4700	.0210
3.8750	3.8750		3.8725										53.000	52.9700	.0300
3.9375	3.9375		3.9350										53.500	53.4700	
4.0000	4.0000		3.9975										54.000	53.9700	

♦ Based on an average interference fit of .0005" per inch (.5mm per m) of shaft diameter. Tolerances and fits comply with, or are within AGMA 9002-A86 standards.

▲ Falk gear couplings are supplied with an interference fit as a standard. Clearance fits can be provided on request.

Interchange Guide ♦ — Flanged Sleeve Gear Couplings



Exposed Bolt — Falk G20 (1000 Series) Half & Other Half

Shrouded Bolt — Falk G10 (1000 Series) Half & Other Half

Exposed & Shrouded Bolts

Common Dimensions						Falk G20 Exposed & Falk G10 Shrouded (1000 Series)				Falk GF Steel Mill Exposed & Shrouded				Lovejoy® Sier-Bath-F® Exposed & Shrouded				Falk G20 Exposed & Falk G20 Shrouded (10 Series)			
A	Exposed		Shrouded		Gap	SIZE	Torque Rating (lb-in)	Max Bore Std Key	C	SIZE	Torque Rating (lb-in)	Max Bore	C	SIZE	Torque Rating (lb-in)	Max Bore	C	SIZE	Torque Rating (lb-in)	Max Bore	C
	B.C.	Cap Screw Size & Qty	B.C.	Cap Screw Size & Qty																	
4.562	3.562	6-312	3.562	6-312	.125	1010G	10,080	1.875	1.69	1GF	7,600	1.625	1.69	F-1	7,560	1.625	1.687	10G	5,040	1.375	1.500
4.562	3.750	6-250	3.750	6-250	.125	1015G	20,790	2.375	1.94		18,900	2.125	1.94	F-1½	18,900	2.125	1.937	15G	15,120	2.125	2.000
6.000	4.812	8-375	4.812	8-375	.125					2GF	31,500	2.750	2.44	F-2	31,500	2.750	2.437	20G	31,500	2.625	2.437
7.000	5.875	6-500	5.812	10-375	.125	1020G	37,800	2.875	2.44	2½GF	56,700	3.250	3.03	F-2½	56,700	3.250	3.031	25G	56,700	3.250	3.031
8.375	7.125	6-625	7.000	10-500	.187	1025G	66,150	3.625	3.03	3GF	101,000	4.000	3.59	F-3	94,500	4.000	3.593	30G	94,500	3.750	3.593
9.437	8.125	8-625	8.000	12-500	.187	1030G	107,100	4.125	3.59												
11.000	9.500	8-750	9.281	12-625	.250	1035G	163,800	4.875	4.19	3½GF	151,300	4.500	4.19	F-3½	151,200	4.500	4.187	35G	126,000	4.500	4.187
12.500	11.000	8-750	10.625	14-625	.125	1040G	270,900	5.750	4.75	4GF	236,000	5.375	4.75	F-4	220,500	5.375	4.750	40G	189,000	5.125	4.750
13.625	12.000	10-750	11.750	14-625	.312	1045G	371,700	6.750	5.31	4½GF	324,000	6.500	5.31	F-4½	302,400	6.500	5.312	45G	267,750	5.500	5.312
15.312	13.500	8-875	13.187	14-750	.312	1050G	500,900	7.375	6.03	5GF	441,000	7.000	6.03	F-5	434,700	7.000	6.031	50G	368,550	6.375	6.031
16.750	14.500	14-875	14.437	16-750	.312	1055G	655,200	8.250	6.62	5½GF	580,000	7.750	6.91	F-5½	573,300	7.750	6.906	55G	491,400	7.250	6.625
18.000	15.750	14-875	NA	NA	.312	1060G	800,100	9.125	7.41	6GF	759,000	8.750	7.41	F-6	749,700	8.750	7.406	60G	630,000	8.250	7.375
20.750	18.250	16-1	NA	NA	.375	1070G	1,197,000	10.875	8.69	7GF	1,160,000	9.750	8.69	F-7	1,008,000	9.750	8.687	70G	1,008,000	9.000	8.687

Exposed & Shrouded Bolts (Continued)

Kop-Flex® (Koppers) HM (Exposed) HS (Shrouded)				Kop-Flex (Fast)® EB (Exposed) SB (Shrouded)				Kop-Flex (Waldron)® EB (Exposed) SB (Shrouded)				Zurn® Amerigear-F Exposed & Shrouded (200 Series)				Renold® Metal Seal Exposed & Shrouded			
SIZE	Torque Rating (lb-in)	Max Bore	C	SIZE	Torque Rating (lb-in)	Max Bore	C	SIZE	Torque Rating (lb-in)	Max Bore	C	SIZE	Torque Rating (lb-in)	Max Bore	C	SIZE	Torque Rating (lb-in)	Max Bore	C
1HM/HS	7,560	1.625	1.687	1½EB/SB	17,010	1.625	1.937	1EB/SB	6,300	1.625	1.687	F201-½	17,010	2.250	1.937	1-½	2,016	1.750	1.937
1½HM/HS	17,010	2.250	1.937	2EB/SB	31,500	2.125	2.437	2EB/SB	31,500	2.750	2.437	F202	31,500	2.750	2.437	2	34,650	2.250	2.437
2HM/HS	31,500	2.750	2.437	2½EB/SB	56,700	2.750	3.031	2½EB/SB	56,700	3.250	3.031	F202-½	53,550	3.500	3.031	2-½	59,850	2.750	3.031
2½HM/HS	56,700	3.500	3.031	3EB/SB	100,800	3.125	3.593	3EB/SB	94,500	4.000	3.593	F203	94,500	4.000	3.593	3	99,540	3.250	3.593
3HM/HS	88,200	4.000	3.593	3½EB/SB	148,050	3.750	4.187	3½EB/SB	144,900	4.750	4.187	F203-½	141,750	4.500	4.187	3-½	149,940	3.750	4.187
3½HM/HS	129,150	4.500	4.187	4EB/SB	236,250	4.250	4.750	4EB/SB	220,500	5.375	4.750	F204	214,200	5.500	4.750	4	269,640	4.250	4.750
4HM/HS	204,750	5.500	4.750	4½EB/SB	318,150	4.750	5.312	4½EB/SB	302,400	6.000	5.375	F204-½	324,450	6.250	5.312	4-½	369,810	4.750	5.312
4½HM/HS	277,200	6.000	5.312	5EB/SB	441,000	5.500	6.031	5EB/SB	409,500	7.000	6.125	F205	415,800	6.750	6.031	5	499,590	5.500	6.031
5HM/HS	384,300	6.875	6.031	5½EB/SB	579,600	5.875	6.906	5½EB/SB	535,500	7.750	6.625	F205-½	551,250	7.620	6.625	5-½	650,160	6.250	6.906
5½HM/HS	504,000	7.750	6.906	6EB	759,150	6.500	7.406	6EB	693,000	8.750	7.375	F206	749,700	8.620	7.406	6	749,700	7.375	7.406
6HM	661,500	8.625	7.406	7EB	1,159,200	8.000	8.687	7EB	1,180,000	9.750	8.687	F207	1,033,200	10.250	8.687	7	926,100	8.750	8.687
7HM	1,008,000	10.375	8.687																

■ Based on the original Sier-Bath design. Component parts are interchangeable.

♦ Competitive complete half couplings are interchangeable because O.D., bolt circle, quantity and size are the same.

Interchange Guide — Continuous Sleeve Gear Couplings ▲

SIZE	Max Bore	Torque (lb-in)	RPM ♦	O.D.	Overall Length	Gap	SIZE	Max Bore	Torque (lb-in)	RPM	O.D.	Overall Length	Gap	SIZE	Max Bore	Torque (lb-in)	RPM	O.D.	Overall Length	Gap
Falk							Lovejoy Sier-Bath							Kop-Flex Waldron						
1010GC	1.875	10,800	5,300	3.50	3.50	.125	7/8C	1.25	2,520	6,000	3.31	3.13	.125	1-1/8PL	1.250	2,520	14,000	2.94	3.00	.125
1015GC	2.375	20,790	4,300	4.30	4.08	.125	1-1/2C	1.63	7,560	5,000	3.75	3.75	.125	1-5/8PL	1.750	7,560	11,000	3.56	3.62	.125
1020GC	2.875	37,800	3,700	5.20	5.07	.125	2C	2.13	20,160	4,200	4.75	4.25	.125	1 1/2P	2.19	15,120	9,000	4.12	4.25	.125
1025GC	3.625	66,150	3,300	6.44	6.25	.188	2-1/2P	2.63	30,240	3,750	5.50	4.75	.250	2P	2.75	31,500	7,200	5.19	5.00	.125
1030GC	4.125	107,100	2,900	7.50	7.37	.188	3C	3.13	50,400	3,000	6.63	5.50	.250	2 1/2P	3.25	56,700	6,000	6.00	6.25	.188
1035GC	4.875	163,800	2,600	8.50	8.63	.250	3-1/2C	3.63	88,200	2,800	7.50	8.75	.250	3P	4.00	94,500	5,200	7.00	7.38	.188
...	...	...	...	...	...	...	4C	4.13	126,000	2,400	8.75	9.00	.250	3-1/2P	4.75	144,900	4,600	8.25	8.62	.250
							4-1/2C	4.75	183,960	2,200	9.50	10.25	.250	4P	5.38	220,500	4,200	9.25	9.75	.250
							5C	5.75	270,900	2,100	10.75	12.25	.250							
Falk							Zurn							System Components						
1010GC	1.875	10,800	5,300	3.50	3.50	.125	201CS	1.250	3,150	9,800	2.69	2.88	.125	8S	1.310	4,410	9,600	2.81	1.41	.094
1015GC	2.375	20,790	4,300	4.30	4.08	.125	201-1/4CS	1.625	7,560	8,900	3.19	3.50	.125	10S	1.630	9,765	7,560	3.44	1.84	.094
1020GC	2.875	37,800	3,700	5.20	5.07	.125	201-1/2CS	2.250	17,010	7,700	4.38	4.00	.125	12S	1.940	13,860	6,900	3.94	1.84	.094
1025GC	3.625	66,150	3,300	6.44	6.25	.188	202CS	2.750	31,500	6,200	5.38	5.00	.125	15S	2.130	19,530	6,600	4.13	2.78	.125
1030GC	4.125	107,100	2,900	7.50	7.37	.188	202-1/2CS	3.500	53,500	6,000	6.50	6.25	.188	20S	2.750	32,130	5,280	5.13	3.19	.125
1035GC	4.875	163,800	2,600	8.50	8.63	.250	203CS	4.000	94,500	5,200	7.44	7.37	.188	25S	3.250	56,700	4,500	6.03	3.88	.188
...	...	...	...	...	...	...	203-1/2CS	4.500	141,750	4,400	8.32	8.63	.250	30S	3.750	95,760	3,960	6.84	4.53	.188
							204CS	5.500	214,200	3,550	9.86	9.75	.250	35S	4.250	151,200	3,480	7.88	5.41	.250
														40S	5.000	226,800	2,940	9.13	5.59	.250
														45S	5.500	333,900	2,640	10.41	6.66	.312

▲ Couplings are functionally interchangeable only; components are not interchangeable. Verify interchange against specific application selection criteria.

♦ Refer to Falk for higher speeds.