Falk® Double & Single Engagement Gear Couplings • Install. & Maint.

Sizes 101 thru 1070G & GP & 1 thru 7GF

How To Use This Manual

This manual provides detailed instructions on installation, maintenance, and parts identification for Falk Lifelign® gear couplings, Types G & GF10, 20, 31, 32, 51, 52, & GP20 & GP52. Use the table of contents below to locate required information.

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CAREFULLY FOLLOW THE INSTRUCTIONS IN THIS MANUAL FOR OPTIMUM PERFORMANCE AND TROUBLE FREE SERVICE.

INTRODUCTION

This manual applies to standard coupling Types G & GF10, 31 and 51 with shrouded bolts, and G & GF20, 32, 52, and GP20 & GP52 with exposed bolts. For couplings furnished with special features, refer to assembly drawing furnished with coupling for proper assembly arrangement and any additional installation or maintenance requirements. Refer to the specific manuals for GV vertical gear couplings installation and maintenance.

IMPORTANT: Use G/GF51 & 52 couplings for floating shaft assemblies or as the fourth bearing in three bearing systems. When gear couplings are mounted on a horizontal floating shaft, use a gap disc in each coupling. Where limited end float is required or where sleeve bearing motors are used, consult the Factory. Type GP52 couplings are recommended for horizontal application only. Refer Type GP52 floating shaft applications to the Factory.

CAUTION: Consult applicable local and national safety codes for proper guarding of rotating members. Observe all safety rules when installing or servicing couplings.

WARNING: Lockout starting switch of prime mover and remove all external loads from drive before installing or servicing couplings.

LUBE FITTINGS

Sleeves have 1/8” NPT lube holes for sizes 1010G20 - 1035G20, 1GF20 - 7GF20, 1025G10 - 1035G10, and 2 1/2 GF10 - 5 GF10. (Sizes 1010G10 - 1020G10 and 1GF10 - 2GF10 use 1/4”-28 SAE LT automotive plugs and fittings. Sizes 1040G thru 1070G have 1/4” NPT holes. Use a standard grease gun and lube fittings.

LIMITED END FLOAT

Where limited end float is required or where sleeve bearing motors are used, consult the Factory.

LUBRICATION

Adequate lubrication is essential for satisfactory operation. Because of its superior lubricating characteristics and low centrifuge properties, Falk Long Term Grease (LTG) is highly recommended.

Long Term Grease (LTG)

The high centrifugal forces encountered in couplings separate the base oil and thickener of general purpose greases. Heavy thickener, which has no lubrication qualities, accumulates in the tooth mesh area of gear couplings resulting in premature mesh failure unless periodic lubrication cycles are maintained.

Falk Long Term Grease (LTG) was developed specifically for couplings. It resists separation of the oil and thickener. The consistency of Falk LTG changes with operating conditions. As manufactured, it is an NLGI #1/2 grade.

Working of the lubricant under actual service conditions causes it to become semifluid, while the grease near the seals will set to a heavier grade, helping to prevent leakage. LTG is highly resistant to separation, easily out performing all other lubricants tested. The resistance to separation allows the lubricant to be used for relatively long periods of time.

Although LTG grease is compatible with most other coupling greases, the mixing of greases may dilute the benefits of LTG.

CAUTION: Do not use LTG in bearings. Do not use LTG for low speed applications. Refer to Table 4, Page 6 for coupling speed range of LTG grease.

Packaging

14 oz. (0.4 Kg) CARTRIDGES — Individual or case lots of 10 or 30.
35 lb. (16 Kg) PALIS, 120 lb. (54 Kg) KEG & 400 lb. DRUMS.

Specifications — Falk LTG (Long Term Grease)

TEMPERATURE RANGE — –20°F (-29°C) to 250°F (121°C). Minimum pump = 20°F (-7°C).
MINIMUM BASE OIL VISCOSITY — 3300SSU (715cSt) @ 100°F (38°C).
THICKENER — Lithium soap/polymer.
CENTRIFUGE SEPARATION CHARACTERISTICS — ASTM #D4425-84 (Centrifuge Test) — K36 = 2/24 max., very high resistance to centrifuging.
NLGI GRADE (ASTM D-217) — 1/2

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Supersedes 6-02
CONSISTENCY (ASTM D-217) — 60 stroke worked penetration value in the range of 315 to 360 measured @ 77°F (25°C).
DROPPING POINT — 350°F (177°C) minimum.
MINIMUM TIMKEN EP O.K. LOAD — 40 lb. (18 kg).
ADDITIVES — Rust and oxidation inhibitors that do not corrode steel or swell or deteriorate synthetic seals.

General Purpose Grease
Bi-annual Lubrication — The following specifications and lubricants for general purpose grease apply to gear couplings that are lubricated bi-annually and operate within ambient temperatures of –30°F (–34°C) to 200°F (93°C). For temperatures beyond this range, consult the Factory. For normal service, use a NLGI #1 extreme pressure (EP) grease EXCEPT when the coupling speed is less than the minimum specified in Table 4, Page 6. At these lower speeds, use a NLGI #0 extreme pressure (EP) grease. When one or more gear couplings in an application require NLGI #0 grease, the same grease may be used in all of the couplings. DO NOT use cup grease.

If coupling leaks grease, is exposed to extreme temperatures, excessive moisture or experiences frequent reversals or axial movements; more frequent lubrication may be required. Lubricants listed in Tables 1, 2 & 3 are typical products only and should not be construed as exclusive recommendations.

Specifications — General Purpose Coupling Lubricants
COUPLING SPEED RANGE — See Table 4, Page 6.
TEMPERATURE RANGE — –30°F to +200°F(–34°C to +93°C)
WORKED PENETRATION AT 77°F(25°C) —
NLGI #1 310-340 (See Table 1)
NLGI #0 355-385 (See Table 2)
DROPPING POINT — 300°F(149°C) or higher
TEXTURE — Smooth or fibrous
MINIMUM TIMKEN O.K. LOAD — 30 lb.
SEPARATION AND RESISTANCE — Low oil separation rate and high resistance to separation from centrifuging.
LIQUID CONSTITUENT — Possess good lubricating properties . . . equivalent to a high quality, well refined petroleum oil with EP additives.
INACTIVE — Must not corrode steel or cause swelling or deterioration of synthetic seals.

Oil Lubrication
EP oils may be a more effective lubricant than grease when the required coupling speed is one half of the minimum speed range of NLGI #1 grease listed in Table 4, Page 6 (Minimum rpm . . . 2). Oil lubricated couplings must be sealed to prevent leakage, i.e. keyways, etc. Couplings must be drained and refilled with new oil every six months for operating temperatures up to 160°F (71°C) and every three months for couplings operating at temperatures of 160°F (71°C) up to 200°F (93°C).
For temperatures beyond this range, consult Factory. The minimum operating temperature must not be lower than the pour point of the oil. The specified amount of grease listed in Table 4, Page 6, is in pounds and also applies to the volume of oil in pints.

Specifications
Type: Mild EP gear oil that meets AGMA Specifications 250.04.
Grade: AGMA #8EP (ISO VG 680).
Viscosity: 612-748 cSt @ 104°F (40°C).
Pour Point: 20°F (–7°C) Maximum.
Must not corrode steel or swell or deteriorate synthetic seals.

TABLE 1 — NLGI #1 Grease

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Lubricant</th>
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<tbody>
<tr>
<td>Amoco Oil Co.</td>
<td>Rykon Grease #1 EP</td>
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<tr>
<td>BP Oil Co.</td>
<td>Engergrease LS-EP1</td>
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<tr>
<td>Chevron U.S.A., Inc.</td>
<td>Dura-Lith EP1</td>
</tr>
<tr>
<td>Citgo Petroleum Corp</td>
<td>Premium Lithium Grease EP1</td>
</tr>
<tr>
<td>Conoco Inc.</td>
<td>EP Conolith Grease #1</td>
</tr>
<tr>
<td>Exxon Company, U.S.A.</td>
<td>Lidok EP1</td>
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<tr>
<td>Imperial Oil Ltd.</td>
<td>Ronex EP1</td>
</tr>
<tr>
<td>Kendall Refining Co.</td>
<td>Lithium Grease L-416</td>
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<tr>
<td>Keystone Div., Pennwalt Corp.</td>
<td>Zenioplex-1</td>
</tr>
<tr>
<td>Lyondell Lubricants</td>
<td>Litholine Complex EP1</td>
</tr>
<tr>
<td>Mobil Oil Corp.</td>
<td>Mobilux EP1</td>
</tr>
<tr>
<td>Petro-Canada Products</td>
<td>Multipurpose EP1</td>
</tr>
<tr>
<td>Phillips 66 Co.</td>
<td>Philube Blue EP</td>
</tr>
<tr>
<td>Shell Oil Co.</td>
<td>Alvania EP Grease 1</td>
</tr>
<tr>
<td>Shell Canada Ltd.</td>
<td>Alvania Grease EP1</td>
</tr>
<tr>
<td>Sun Oil Co.</td>
<td>Sun Prestige 741 EP</td>
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<tr>
<td>Texaco Lubricants</td>
<td>Multifak EP1</td>
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<tr>
<td>Unocal 76 (East &amp; West)</td>
<td>Unoba EP1</td>
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</table>

TABLE 2 — NLGI #0 EP Grease

<table>
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<td>BP Oil Co.</td>
<td>Engergrease LS-EP0</td>
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<tr>
<td>Chevron U.S.A., Inc.</td>
<td>Dura-Lith EP 0</td>
</tr>
<tr>
<td>Citgo Petroleum Corp</td>
<td>Premium Lithium Grease EP 0</td>
</tr>
<tr>
<td>Conoco Inc.</td>
<td>EP Conolith Grease #0</td>
</tr>
<tr>
<td>Imperial Oil Ltd.</td>
<td>Unirex EP0</td>
</tr>
<tr>
<td>Exxon Company, U.S.A.</td>
<td>Lidok EP 0</td>
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<tr>
<td>Kendall Refining Co.</td>
<td>Lithium Grease L-406</td>
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<tr>
<td>Keystone Div., Pennwalt Corp.</td>
<td>Zenioplex-0</td>
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<tr>
<td>Mobil Oil Corp.</td>
<td>Mobilux EP 0</td>
</tr>
<tr>
<td>Petro-Canada Products</td>
<td>Multipurpose Loemp EP Grease</td>
</tr>
<tr>
<td>Phillips 66 Co.</td>
<td>Philube Blue EP</td>
</tr>
<tr>
<td>Shell Oil Co.</td>
<td>Alvania EP Grease RO</td>
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<tr>
<td>Shell Canada Ltd.</td>
<td>Alvania Grease EPW</td>
</tr>
<tr>
<td>Sun Oil Co.</td>
<td>Sun Prestige 740 EP</td>
</tr>
<tr>
<td>Texaco Lubricants</td>
<td>Multifak EP 0</td>
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<tr>
<td>Unocal 76 (East &amp; West)</td>
<td>Unoba EP 0</td>
</tr>
</tbody>
</table>

TABLE 3 — Oil Lubricants

<table>
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<tr>
<th>Manufacturer</th>
<th>Lubricant</th>
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</thead>
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<tr>
<td>Amoco</td>
<td>Permagear EP 160</td>
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<tr>
<td>Chevron, U.S.A.</td>
<td>NL Gear Compound 680</td>
</tr>
<tr>
<td>Exxon Co., U.S.A.</td>
<td>Spartan EP980</td>
</tr>
<tr>
<td>Gulf Oil Co.</td>
<td>EP Lubricant HD 680</td>
</tr>
<tr>
<td>Mobil Oil Co.</td>
<td>Mobilgear 636</td>
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<tr>
<td>Shell Oil Co.</td>
<td>Omala Oil 680</td>
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<tr>
<td>Texaco Inc.</td>
<td>Meropa 680</td>
</tr>
<tr>
<td>Union Oil Co. of Calif.</td>
<td>Extra Duty NL Gear Lube 6EP</td>
</tr>
</tbody>
</table>

* Lubricants listed may not be suitable for use in the food processing industry; check with lube manufacturer for approved lubricants.
HORIZONTAL COUPLING INSTALLATION, ALL TYPES

Only standard mechanics tools, torque wrenches, inside micrometer, dial indicator, straight edge, spacer bar, and feeler gauges are required to install gear couplings. Clean all parts using a non-flammable solvent. Check hubs, shafts, and keyways for burrs. DO NOT heat clearance fit hubs. Use a lubricant that meets the specifications on Page 2. Pack sleeve teeth with grease and lightly coat seals with grease BEFORE assembly. The required amount of grease is listed in Table 4. Make certain flange fasteners are tightened to the required torque listed in Table 4. Interference Fit Hubs — Unless otherwise specified, gear couplings are furnished for an interference fit without setscrews. Heat hubs to 275°F (135°C) using an oven, torch, induction heater, or an oil bath.

CAUTION: To prevent seal damage DO NOT heat hubs beyond a maximum temperature of 400°F (205°C) for Type G and 500°F (260°C) for Type GF.

When an oxy-acetylene or blow torch is used, use an excess acetylene mixture. Mark hubs near the center of their length in several places on hub body with a temperature sensitive crayon, 275°F (135°C) melt temperature. Direct flame towards hub bore using constant motion to avoid overheating an area.

WARNING: If an oil bath is used, the oil must have a flash point of 350°F (177°C) or higher. Do not rest hubs on the bottom of the container. Do not use an open flame in a combustible atmosphere or near combustible materials.

Maximize Performance & Life

The performance and life of couplings depend largely upon how you install and maintain them. Before installing couplings, make certain that foundations of equipment to be connected meet manufacturers’ requirements. Check for soft foot. The use of stainless steel shims is recommended. Measuring misalignment and positioning equipment within alignment tolerances is simplified with an alignment computer. These calculations can also be done graphically or mathematically, and allow the incorporation of “cold offsets”, which will compensate for shaft position changes due to thermal growth.

Balanced Couplings

The fasteners provided are matched sets and must not be mixed or substituted. Assembly balanced couplings are match marked and must be assembled with mating match marks aligned. In some sizes, the flanges are not match marked. Coupling flanges must be assembled with O.D.’s aligned to within .002” (0.05 mm). Component parts of assembly balanced couplings must not be replaced without re-balancing the complete assembly.

BI-ANNUAL MAINTENANCE

Re-lubricate coupling if using general purpose grease. If coupling leaks grease, is exposed to extreme temperatures, excessive moisture or frequent reversals; more frequent lubrication may be required.

ANNUAL MAINTENANCE

For extreme or unusual operating conditions, check coupling more frequently.

1. Check alignment per Step 7, Page 7. If the maximum operating misalignment values are exceeded, realign the coupling to the recommended installation values. See Table 4, for installation and maximum operating misalignment values.
2. Check tightening torques of all fasteners.
3. Inspect seal ring and gasket to determine if replacement is required.
4. Re-lubricate coupling if using general purpose grease.
2 — Gap & Angular Alignment for Close Coupled, Spacer, Short Floating Shaft, and Insulated Couplings

2A — Type G/GF10 & 20 & GP20
Use a spacer bar equal in thickness to gap specified in Table 4. Insert bar, as shown above, to same depth at 90° intervals and measure clearance between bar and hub face with feelers. The difference in minimum and maximum measurements must not exceed the INSTALLATION ANGULAR limit specified in Table 4.

2B — G/GF31 & 32 (Spacer), and Type G/GF51 & 52 (Short Floating Shaft, See Step 4 for Long Floating Shaft)
Use an inside micrometer as shown above and at 90° intervals to measure the distance between hubs. The difference in minimum and maximum measurements should not exceed the INSTALLATION ANGULAR limit specified in Table 4.

2C — G/GF51 & 52 & GP52 (As Fourth Bearing in Three Bearing System)
Use a spacer bar equal in thickness to the “X” dimension specified in Table 4. Insert bar, as shown above to same depth at 90° intervals and measure clearance between bar and hub face with feelers. The difference in minimum and maximum measurements must not exceed the INSTALLATION ANGULAR limit specified in Table 4.

3 — Offset Alignment for Close Coupled, Spacer, Short Floating Shaft, and Insulated Coupling

3A — Type G/GF10 & 20 & GP20
Align so that a straight edge rests squarely on both hubs as shown above and also at 90° intervals. Check with feelers. The clearance should not exceed the INSTALLATION OFFSET limit specified in Table 4. Tighten foundation bolts and repeat Steps 2A and 3A. Realign coupling if necessary. Use a dial indicator if hub extension is too short for accurate use of a straight edge.

3B — Type G/GF31 & 32 (Spacer), and Type G/GF51 & 52 (Short Floating Shaft, See Step 4 for Long Floating Shaft)
Align so that a straight edge rests squarely (or within the limits specified in Table 4) on both hubs as shown above and also at 90° intervals. Check with feelers. The clearance should not exceed the INSTALLATION OFFSET limit specified. Tighten all foundation bolts and repeat Steps 2B and 3B. Realign coupling if necessary.

3C — Type G/GF51 & 52 & GP52 (As Fourth Bearing in Three Bearing System)
Clamp a dial indicator to the rigid hub as shown and rotate the rigid hub one complete turn. The total indicator reading DIVIDED by two must not exceed the INSTALLATION OFFSET limit specified in Table 4. Tighten all foundation bolts and repeat Steps 2C and 3C. Realign coupling if necessary.
4 — Type G/GF/GP51 & 52 With Long Floating Shaft

4A — Determine Distance Between Shafts
For Figure 1 above, measure the length of the floating shaft and add 2 times the gap dimension from Table 4 to get the distance between the shafts to be coupled.

4B — Position First Drive & Floating Shaft
Set the drive most difficult to move to true level and bolt it in place. Set the floating shaft on V-blocks. Then align coupling on fixed drive as follows:

4B1 — Refer to Figure 3
Use a spacer bar equal in thickness to the “X” dimension specified in Table 4. Insert the bar to the same depth at 90° intervals and measure the clearance between the bar and hub face with feelers as shown. The difference in minimum and maximum measurements should not exceed the INSTALLATION ANGULAR limit specified in Table 4.

4B2 — Refer to Figure 3
Align coupling & floating shaft so that, with the square head (or depth micrometer) resting squarely on the flange, equal clearance measurements are obtained between flange and the hub O.D. in four places 90° apart. The difference between minimum and maximum feeler readings should not exceed the INSTALLATION OFFSET limit in Table 4 divided by 2. The above measurement is TIR.

4C — Position Second Drive
Position second drive for the correct “X” dimension and align per Steps 4B1 & 4B2. DO NOT move the floating shaft. Bolt drive in place and recheck alignment and gap. Realign if necessary. For greater accuracy, check alignment with a depth micrometer or dial indicator.

5 — Assemble Coupling — G and GF Only
Insert gasket between flanges and gap disc into counterbore of each rigid hub for floating shaft assemblies and bolt flanges together. Use only the fasteners furnished with the coupling. IMPORTANT: Tighten fasteners to torque specified in Table 4.

5A — Assemble Coupling — Insert Insulator Parts and Join Flanged Sleeves (GP20 & GP52)
Clean flange faces and coat with Permatex #2 or equivalent. DO NOT install gaskets. Insert insulator bushings into flanged holes. Draw one sleeve onto hub and position insulator center plate on flange face. Draw other sleeve onto hub and assemble fasteners with insulator washers. Use only fasteners furnished with coupling. IMPORTANT: Tighten fasteners to torque specified in Table 4.

6 — Lubricate
Remove all grease plugs and fill with recommended grease until an excess appears at an open hole; then insert plug. Continue procedure until all plugs have been inserted.

CAUTION: Remove grease fitting and make certain all plugs are inserted after lubricating.
TABLE 4 — Installation & Alignment Data For Types G/GF10, 20, 31, 32, 51, 52 & GP20 & GP52* — Dimensions — Inches (Metric — mm)

<table>
<thead>
<tr>
<th>COUPLING SIZE</th>
<th>1010G 1GF</th>
<th>1015G 1½GF</th>
<th>1020G 2GF</th>
<th>1025G 2½GF</th>
<th>1030G 3GF</th>
<th>1040G 3½GF</th>
<th>1050G 4GF</th>
<th>1055G 4½GF</th>
<th>1060G 5GF</th>
<th>1065G 5½GF</th>
<th>1070G 6GF</th>
<th>1070G 7GF</th>
</tr>
</thead>
<tbody>
<tr>
<td>G/GF10 &amp; 20</td>
<td>.125</td>
<td>.125</td>
<td>.125</td>
<td>.188</td>
<td>.188</td>
<td>.250</td>
<td>.312</td>
<td>.312</td>
<td>.312</td>
<td>.312</td>
<td>.375</td>
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<td>GP20</td>
<td>.125</td>
<td>.125</td>
<td>.125</td>
<td>.188</td>
<td>.188</td>
<td>.250</td>
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<td>.375</td>
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<tr>
<td>G/GF51 &amp; 52</td>
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<td>158</td>
<td>158</td>
<td>188</td>
<td>188</td>
<td>218</td>
<td>334</td>
<td>334</td>
<td>344</td>
<td>334</td>
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<td>GP52</td>
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<td>“X” Dimension</td>
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<td>1.06</td>
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<td>.089</td>
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<td>.144</td>
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**Installation Limits**

<table>
<thead>
<tr>
<th>Coupling Speed Range (rpm)</th>
<th>G10, 20, 31, 52 &amp; GP20 &amp; GP52</th>
<th>G31 &amp; 32</th>
<th>G10 &amp; 20</th>
<th>G51 &amp; 52</th>
<th>G31 &amp; 32</th>
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<tr>
<td>NLGI #0 Grease Max¹</td>
<td>7000</td>
<td>4000</td>
<td>4000</td>
<td>3000</td>
<td>2000</td>
<td>2000</td>
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<tr>
<td>Grease — pounds/kg</td>
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**Flange Bolt Torque — lb-in (Nm)**

<table>
<thead>
<tr>
<th>Coupling Speed Range (rpm)</th>
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<th>G51 &amp; 52</th>
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<td>108</td>
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<tr>
<td>Flange Bolt Torque — lb-in</td>
<td>372</td>
<td>372</td>
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<td>372</td>
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</table>


† Flexible couplings are designed to accommodate changes in operating conditions. Coupling life expectancy between initial alignment and maximum operating limits is a function of load, speed and lubrication. Application requirements in excess of 3/4" misalignment per flex half coupling should be referred to the Factory for review.

‡ Couplings with NLGI #0 grease may be operated at any speed between zero and the maximum shown.

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Rexnord
5555 S. Moorland Rd., New Berlin, WI 53151-7953
Telephone: 262-796-4060 Fax: 262-796-4064 www.rexnord.com
7 — Assembled Coupling Alignment Check – All Styles

The alignment can be checked without disassembling the coupling as shown at left. Determine “W” by measuring distances “W”max. and “W”min. between flex hub and sleeve using a depth micrometer or feeler gauges. The difference between “W”max. and “W”min. must not exceed the “W” value given in Table 4. Check “W” at each coupling end.

PARTS IDENTIFICATION AND PART NUMBER LOCATION

Coupling parts have identifying size and part numbers as illustrated below. When ordering parts, always SPECIFY SIZE, TYPE, HUB BORE, KEYWAY, and PART NUMBER found on each item.

Contact your Rexnord Distributor or Rexnord for price and availability.

EXAMPLE:
Complete 1050G20 Gear Coupling Consisting of:
2 – 1050G20 Sleeves
   (Includes: Gasket & Seal)
2 – 1050G Flex Hubs
   Bore: 6.750 Keyway: 1.750 x .750
   Bore: 7.375 Keyway: 1.750 x .750
1 – Fastener Set
TYPE G/GF51 & 52

COUPLING SIZE

FLOATING SHAFT (Specify Diameter & Length)

SEAL RING

LUBE PLUG

SLEEVE

FLEX HUB (Specify Bore & Keyway)

GASKET

RIGID HUB (Specify Bore & Keyway)

SLEEVE

LUBE PLUG

SEAL RING

FASTENERS

TYPE GP20

COUPLING SIZE

FLEX HUB (Specify Bore & Keyway)

INSULATOR WASHERS

INSULATOR CENTER PLATE

INSULATOR BUSHINGS

SLEEVE

LUBE PLUG

SEAL RING

FASTENERS

TYPE GP52

COUPLING SIZE

FLEX HUB (Specify Bore & Keyway)

INSULATOR WASHERS

INSULATOR CENTER PLATE

RIGID HUB (Specify Bore & Keyway)

SLEEVE

LUBE PLUG

SEAL RING

FASTENERS

INSULATOR BUSHINGS