

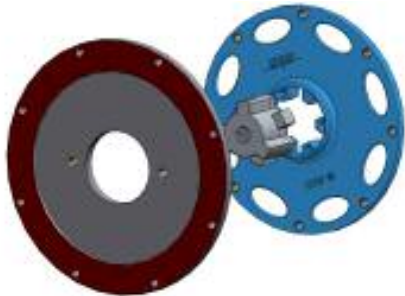


Flange and Hub Style Coupling
Designed for Gasoline and Diesel Engines

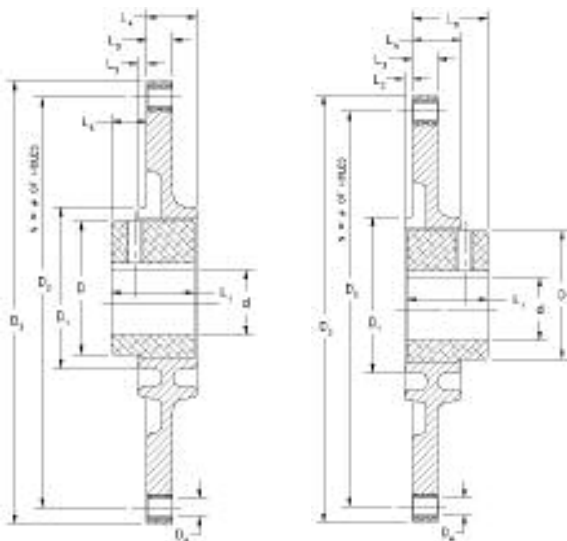


BSF Incorporated P.O. Box 459 Vandalia, Ohio 45377
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2-Piece HEX-FLX Coupling Specifications



- High torsional stiffness for operation below critical speeds
- -40° to +300°F operating temperatures
- Light and compact with long service life
- Handles high shock loads
- Easy, two-piece blind mounting
- Customizable, sintered hub lengths
- Various series for standard SAE flywheels
- Secure locking system to eliminate fretting
- Economically priced and usually in stock

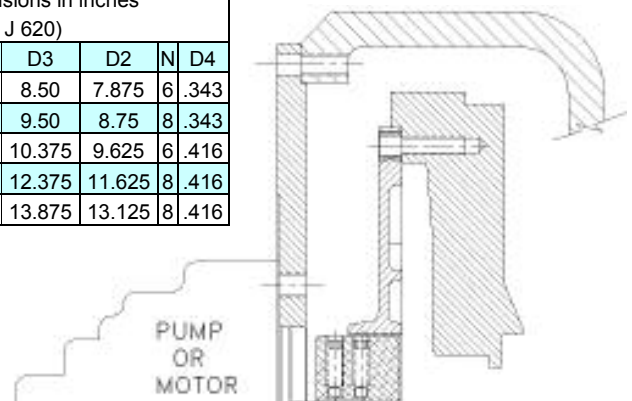


Short Mounting

Standard Mounting

| Flange Dimensions in inches (SAE J 620) | | | | | |
|--|--------|--------|--------|---|------|
| Part Number | Size | D3 | D2 | N | D4 |
| B-065 | 6-1/2 | 8.50 | 7.875 | 6 | .343 |
| C-075 | 7-1/2 | 9.50 | 8.75 | 8 | .343 |
| C-080 | 8 | 10.375 | 9.625 | 6 | .416 |
| C-010 | 10 | 12.375 | 11.625 | 8 | .416 |
| DT-115 | 11-1/2 | 13.875 | 13.125 | 8 | .416 |

Example Assembly



IMPORTANT:

For proper assembly instructions, please refer to assembly drawings provided by Hayes. The mounting instructions provided on the assembly drawing will ensure the hub is properly located and clamped to pump or motor shaft. (Torque wrench required).

Coupling Dimensional Information (English)

| Size | Finish Bore | | Dimensions (inches) | | | | | | | | Dimension to SAE | | | | | Optimal Hub Location within |
|------|-------------|------|---------------------|-------|------|------|-----|-------|------|-------|------------------|-------|---|----|--------|-----------------------------|
| | Max | Min | D | D1 | L1 | L2 | L3 | L4 | L5 | L6 | 6-1/2 | 7-1/2 | 8 | 10 | 11-1/2 | |
| HB1 | 1.375 | .508 | 2.015 | 3.109 | 1.13 | .16 | .50 | .96 | 1.02 | .217 | • | | | | | 0.04 |
| HB2 | 1.375 | .508 | 2.015 | 3.109 | 1.35 | .16 | .50 | .96 | 1.24 | .437 | • | | | | | 0.04 |
| HB3 | 1.375 | .508 | 2.015 | 3.109 | 1.60 | .16 | .50 | .96 | 1.49 | .687 | • | | | | | 0.04 |
| HB4 | 1.375 | .508 | 2.015 | 3.109 | 1.90 | .16 | .50 | .96 | 1.79 | .987 | • | | | | | 0.04 |
| HC1 | 2.0 | .508 | 2.522 | 4.198 | 1.33 | .16 | .50 | .96 | 1.22 | .412 | | • | | | | 0.04 |
| HC1 | 2.0 | .508 | 2.522 | 4.198 | 1.33 | 0 | .50 | 1.13 | 1.38 | .257 | | | • | | | 0.04 |
| HC2 | 2.0 | .508 | 2.522 | 4.198 | 1.60 | .16 | .50 | .96 | 1.48 | .687 | | • | | | | 0.04 |
| HC2 | 2.0 | .508 | 2.522 | 4.198 | 1.60 | 0 | .50 | 1.13 | 1.65 | .527 | | | • | | | 0.04 |
| HC3 | 2.0 | .508 | 2.522 | 4.198 | 1.75 | .16 | .50 | .96 | 1.63 | .837 | | • | | | | 0.04 |
| HC3 | 2.0 | .508 | 2.522 | 4.198 | 1.75 | 0 | .50 | 1.13 | 1.90 | .677 | | | • | | | 0.04 |
| HC4 | 2.0 | .508 | 2.522 | 4.198 | 2.13 | .16 | .50 | .96 | 2.01 | 1.217 | | • | | | | 0.04 |
| HC4 | 2.0 | .508 | 2.522 | 4.198 | 2.13 | 0 | .50 | 1.13 | 2.28 | 1.057 | | | • | | | 0.04 |
| HC5 | 2.0 | .508 | 2.522 | 4.198 | 2.38 | .16 | .50 | .96 | 2.26 | 1.467 | | • | | | | 0.04 |
| HC5 | 2.0 | .508 | 2.522 | 4.198 | 2.38 | 0 | .50 | 1.13 | 2.53 | 1.307 | | | • | | | 0.04 |
| HC6 | 2.0 | .508 | 2.522 | 4.198 | 2.44 | .16 | .50 | .96 | 2.32 | 1.527 | | • | | | | 0.04 |
| HC6 | 2.0 | .508 | 2.522 | 4.198 | 2.44 | 0 | .50 | 1.13 | 2.59 | 1.367 | | | • | | | 0.04 |
| HDT1 | 3.0 | .750 | 3.834 | 6.500 | 1.60 | .335 | .83 | 1.155 | 1.32 | .485 | | | | | • | 0.04 |
| HDT2 | 3.0 | .750 | 3.834 | 6.500 | 2.00 | .335 | .83 | 1.155 | 1.72 | .890 | | | | | • | 0.04 |
| HDT3 | 3.0 | .750 | 3.834 | 6.500 | 2.44 | .335 | .83 | 1.155 | 2.16 | 1.325 | | | | | • | 0.04 |

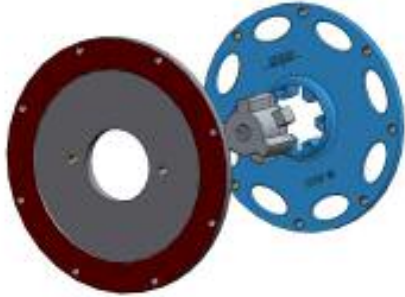


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Technical Coupling Data (English)

| Technical Data for HEX-FLX Couplings - Torques / Weights / Mass Moments of Inertia | | | | | | | | | | | |
|--|----------------------|------------------|-----------------------|-----------------------------------|-----------------------|----------------------------------|-------|-------|-------|--------|---|
| Size | Torque T (ft.lbs) | | General HP Rating | Weight / Mass Moment of inertia J | | HEX-FLX Flanges according to SAE | | | | | |
| | T _{nominal} | T _{max} | | Units | Std. Bore | 6-1/2 | 7-1/2 | 8 | 10 | 11-1/2 | |
| HB1 | 225 | 365 | 20-75 | [lbs] | 1.53 | .88 | - | - | - | - | |
| | | | | [lb in ²] | 1.79 | 7.89 | - | - | - | - | |
| HB2 | 225 | 365 | | [lbs] | 1.76 | .88 | - | - | - | - | |
| | | | | [lb in ²] | 2.03 | 7.89 | - | - | - | - | |
| HB3 | 225 | 365 | | [lbs] | 2.03 | .88 | - | - | - | - | |
| | | | | [lb in ²] | 2.3 | 7.89 | - | - | - | - | |
| HB4 | 225 | 365 | | [lbs] | 2.13 | .88 | - | - | - | - | |
| | | | | [lb in ²] | 2.50 | 7.89 | - | - | - | - | |
| HC1 | 585 | 1125 | | 75-200 | [lbs] | 2.41 | - | 1.12 | 1.17 | 1.63 | - |
| | | | | | [lb in ²] | 3.83 | - | 13.4 | 15.67 | 31.01 | - |
| HC2 | 585 | 1125 | [lbs] | | 2.82 | - | 1.12 | 1.17 | 1.63 | - | |
| | | | [lb in ²] | | 4.41 | - | 13.4 | 15.67 | 31.01 | - | |
| HC3 | 585 | 1125 | [lbs] | | 3.05 | - | 1.12 | 1.17 | 1.63 | - | |
| | | | [lb in ²] | | 4.72 | - | 13.4 | 15.67 | 31.01 | - | |
| HC4 | 585 | 1125 | [lbs] | | 3.61 | - | 1.12 | 1.17 | 1.63 | - | |
| | | | [lb in ²] | | 5.5 | - | 13.4 | 15.67 | 31.01 | - | |
| HC5 | 585 | 1125 | [lbs] | | 3.98 | - | 1.12 | 1.17 | 1.63 | - | |
| | | | [lb in ²] | | 6.01 | - | 13.4 | 15.67 | 31.01 | - | |
| HC6 | 585 | 1125 | [lbs] | | 4.23 | - | 1.12 | 1.17 | 1.63 | - | |
| | | | [lb in ²] | | 6.37 | - | 13.4 | 15.67 | 31.01 | - | |
| HDT1 | 1300 | 3300 | 200-600 | [lbs] | 7.88 | - | - | - | - | 2.93 | |
| | | | | [lb in ²] | 30.25 | - | - | - | - | 74.93 | |
| HDT2 | 1300 | 3300 | | [lbs] | 9.27 | - | - | - | - | 2.93 | |
| | | | | [lb in ²] | 35.31 | - | - | - | - | 74.93 | |
| HDT3 | 1300 | 3300 | | [lbs] | 10.05 | - | - | - | - | 2.93 | |
| | | | | [lb in ²] | 40.09 | - | - | - | - | 74.93 | |