

ServoClass® Floating Shaft Coupling

Installation Instructions For ServoClass® Floating Shaft Couplings

The ServoClass Floating Shaft Coupling is a high performance coupling designed for precision motion control applications. To maintain precise concentricity, the coupling is assembled at the factory to precise tolerances using special fixtures.

As a result, the ServoClass Floating Shaft Coupling is not intended to be disassembled or repaired in the field.

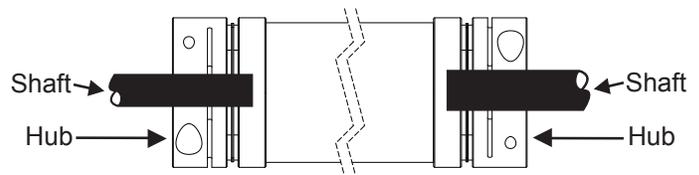
TOOLS REQUIRED

- Calibrated torque wrench
 - Hex socket set
 - Shaft alignment tools
 - Cleaning cloth
 - Caliper
- Align the drive shaft and the driven shaft before assembly; avoid excessive misalignment between the shafts when installing the coupling.
 - Examine shafts and clean if necessary. Shaft surface should be clean, free of lubricants, corrosion, burrs, or galling, etc.
 - Loosen, do not remove, the clamping screws on the coupling hubs.

Note: ServoClass Floating Shaft hubs are designed to have a clearance fit with the shaft. Only apply pressure to the hubs when installing as applying pressure to the flex elements during installation may cause damage. If the hub does not slide easily onto the shaft, stop installation and check for burrs on the hub and shaft, then measure the hub bore and shaft diameter to verify there is clearance between them.

- Mount the ServoClass Floating Shaft Coupling hub onto the driver shaft. It is recommended that you do not tighten the clamping screw at this point.
- Carefully slide the other shaft into the other hub of the ServoClass Floating Shaft Coupling. It is recommended that you do not tighten the clamping screw at this point.

- Confirm the alignment of the connected shafts by rotating and moving the coupling axially. If the coupling does not move freely, the shaft alignment needs to be improved.
- It is recommended that the shafts be in full contact with the entire length of the coupling hub. The shaft may extend into the floating shaft of the coupling; however, the shaft should not touch the internal stainless steel disc pack. Transmittable torque may be compromised if shaft contact length is less than the length of the hub.



After positioning the coupling to the optimal shaft-hub engagement, tighten the clamp screws to the specified torque value (see table on page 2).

A calibrated torque wrench is recommended for this operation.

The ServoClass Floating Shaft Coupling is now ready for operation. Please contact the factory with any questions.

Note: Aligning the shafts as closely as possible at the time of initial installation will reduce noise and allow the coupling extra capacity for misalignments and loads which will occur during operation over the life of the connected equipment. Installing and operating coupling at higher degrees of misalignment is possible (see catalog ratings), but will generally reduce the life of the coupling. Laser alignment tool or dial indicator are recommended for best shaft alignment. If not available, a straight edge and feeler gauges can be used.

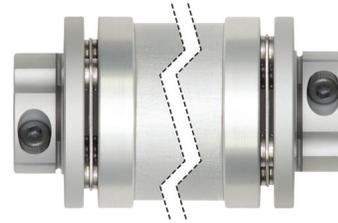
⚠ Caution: Rotating equipment is potentially dangerous and should be properly guarded. It is the responsibility of the machine builder, user, or operator to follow all applicable safety codes and provide a suitable guard. Make sure the machine is “locked out” and cannot be accidentally started during installation or maintenance of coupling.

ServoClass® Floating Shaft Coupling

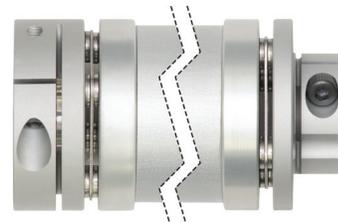
Clamp Screw / Tightening Torque Table

Model	Clamp Screw Size	Tightening Torque	
		In. lb.	(Nm)
SF030R	M3.0	13.0	(1.5)
SF035R	M4.0	30.0	(3.4)
SF040R	M4.0	30.0	(3.4)
SF050R	M5.0	62.0	(7.0)
SF060R	M6.0	124	(14.0)
SF080R	M8.0	266	(30.0)
SF090R	M8.0	266	(30.0)
SF0100R	M8.0	266	(30.0)

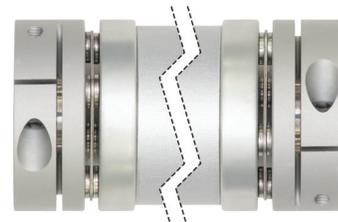
Style of coupling is dependent on the size of the coupling and bore combination selected. Therefore, the coupling could be comprised of the combinations shown to the right.



Style A



Style B



Style C

