

## ServoClass<sup>®</sup> Coupling Installation Guide

The ServoClass<sup>®</sup> 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<sup>®</sup> Coupling is not intended to be disassembled or repaired in the field.

### **Installation Instructions\***

1. Align the motor and the driven shaft before assembly; avoid excessive misalignment between the shafts when installing the coupling.
2. Examine shafts and clean if necessary. Shaft surface should be clean, free of lubricants, corrosion or galling, etc.
3. Loosen, do not remove, the clamping screws on the coupling.
4. Mount the ServoClass<sup>®</sup> Coupling hub onto the driver motor shaft. It is recommended that you do not tighten the clamping screw at this point.
5. Carefully slide the other shaft into the clamp hub of the ServoClass<sup>®</sup> Coupling. It is recommended that you do not tighten the clamping screw at this point.
6. 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.
7. It is recommended that the shafts be in full contact with the entire length of the coupling hub. The shaft may extend into the interior of the coupling; however, the shaft ends should not touch or touch internal stainless steel disc pack. Transmittable torque may be compromised if shaft length is less than the length of the hub.

### Clamp Screw / Tightening Torque Table

Model	Clamp Screw Size	Tightening Torque	
		In. lb.	(Nm)
SC005R or SD005R	M2.0	3.5	(0.4)
SC010R or SD010R	M2.0 **	3.5	(0.4)
SC010R or SD010R	M2.5 ***	9.0	(1.0)
SC020R or SD020R	M2.5	9.0	(1.0)
SC030R or SD030R	M3.0	13.0	(1.5)
SC035R or SD035R	M4.0	30.0	(3.4)
SC040R or SD040R	M4.0	30.0	(3.4)
SC050R or SD050R	M5.0	62.0	(7.0)
SC060R or SD060R	M6.0	124.0	(14.0)
SC080R or SD080R	M8.0	266.0	(30.0)
SC090R or SD090R	M8.0	266.0	(30.0)
SC100R or SD100R	M8.0	266.0	(30.0)

\*\* for 8mm bore

\*\*\* for 4mm - 7mm bores

- After positioning the coupling to the optimal shaft-hub engagement, tighten the clamp screws to the specified torque value above. A calibrated torque wrench is recommended for this operation.

The ServoClass<sup>®</sup> 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 allow the coupling extra capacity for misalignments and loads which will occur during operation over the life of the connected equipment. Installing and operating the coupling at higher degrees of misalignment is possible (see catalog ratings), but will generally reduce the life of the coupling.

\*NOTE: Rotating equipment is potentially dangerous and should be properly guarded. The user should follow all applicable safety codes and provide a suitable guard.