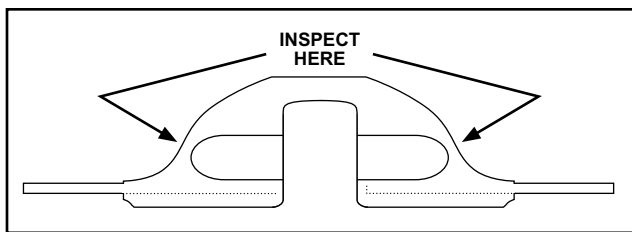


## MAINTENANCE INSTRUCTIONS

The Rexnord Omega® HSU Coupling is a high quality elastomer type flexible coupling designed to accommodate vibration and other reaction forces inherent to rotating equipment. The engineering grade polyurethane material used for the Omega HSU flex element is formulated specifically to have enhanced resistance over the standard Omega urethane in hot and humid, highly acidic or alkaline environments. The Omega HSU Coupling’s split-in-half bonded flex element design allows for quick and inexpensive replacement of the flex element with no need to disturb the hubs on the shaft or to move connected equipment.

### PREVENTATIVE MAINTENANCE

Where feasible, a periodic visual inspection may be all that is necessary to evaluate the condition of the flex element. When inspecting the element, look for fatigue cracks (over 1/2") originating near the stress relief grooves (approximately 1/4"-1/2" above the metal shoe), most commonly these cracks are caused by misalignment or excessive duty cycles – starts and stops.



After the coupling has been in operation for some time, a “torsional set” may develop in the flex element (up to 1/4" on a size E40, even more on larger sizes). This does not affect the performance of the coupling, as it is simply the material creeping under the applied stress. A very large torsional set may suggest a sizing problem and will warrant a close review of the application and coupling selection parameters. For ease of assembly/disassembly, elements should be re-installed in the same “position of rotation” in which they were removed.

### ELEMENT REPLACEMENT/INSTALLATION

The unique two part split-in-half flex element was engineered for ease of maintenance/replacement. All half elements are weight matched and packaged in pairs for optimum field balance and smooth operation. For the best performance, always install both half elements from the same box. Never replace just one half element, as matching an older and newer half element could create both torsional and balance inconsistencies. Refer to the Omega Coupling Installation Instructions for additional information, including recommended cap screw installation torques.

The Omega HSU element provides excellent service life with an extended element shelf life of 12-16 years from the date of manufacture. Date coding information to determine element date of manufacture can be found on both the interior and exterior of the flexible element.

### PREMATURE FAILURES

Should the Omega HSU Coupling fail to provide a reasonable service life, review the application parameters and verify the coupling selection before replacing the flex

element. Other factors that may contribute to decreased service life include:

- Severe environmental conditions
- Severe torsional variations
- Excessive misalignment of connected equipment
- Shock loads/peak torque loads above rating

### LIMITATIONS

Although the Omega HSU Coupling is designed for most general purpose coupling applications, certain limitations should be considered:

- **Temperature** — Maximum 200°F, Minimum -40°F. Contact Rexnord for specific application analysis.
- **Chemical Environment** — The Omega HSU material is designed for better performance in hot and humid, acidic or alkaline environments than the standard Omega material. For specific chemical resistance data, please contact the factory.
- **Space Limitations** — Larger O.D. compared to all-metal couplings.
- **Reciprocating Equipment** — In general, reciprocating applications should be avoided with the Omega HSU. Consult factory for recommendations.
- **Axial Thrust Consideration** — If installing Omega HSU Couplings on equipment sensitive to axial thrust, such as sleeve bearing motors or herringbone gear sets consult Rexnord.
- **Turbines** — Omega HSU Couplings are not recommended if the coupling cannot be protected from speeds in excess of the coupling’s published rating (see [Omega Coupling Catalog - Imperial #4000](#)).

### Cap Screw Tightening Torques

Coupling Size	Tightening Torque - Dry	
	In. Lbs.	Ft. Lbs.
2, 3, 4, 5, 10	204	17
15	288	24
20, 30, 40, 50	360	30
60, 70, 80	900	75
100, 120	3240	270
140	7080	590

**NOTE:** Cap screws have self-locking patches which should not be reused more than twice. Cap screws can be further used if a thread locking adhesive is applied.

**Do NOT lubricate cap screw threads.**

Prompt, technical assistance is available from your Rexnord representative or direct from the factory at **262-796-4060** or visit our website at [www.rexnord.com](http://www.rexnord.com).