

Betts Industries, Inc.

1800 Pennsylvania Ave. West
Warren, PA 16365 U.S.A.

Engineering Bulletin 9-99

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Subject: Torque Rating for Q.R.B. Hydrolet Clamp Rings

Betts Quick Release Bonnet (Q.R.B.) Hydrolet Valves are designed with a wing nut and clamp ring assembly that can be sealed by hand tightening the wing nut. In some applications, however, the location of the valve may make it difficult to access the wing nut. In these cases, a powered wrench can be used to turn the wing nut as long as the wrench is set to apply a maximum of 90 in-lbs [7.5 ft-lbs] of torque.



DO NOT EXCEED 90IN-LB TORQUE ON Q.R.B. CLAMP RING WING NUT. GREATER TORQUE CAN DAMAGE CLAMP RING ASSEMBLY CAUSING FAILURE OF CLAMP RING.

If 90in-lb. of torque does not produce a liquid tight seal, replace the gasket. Also, inspect sealing surfaces on valve tophead and in valve body for damage. Replace damaged parts and retest valve before returning to service.

Refer to Betts catalog for replacement parts.

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Instructions for Mounting Q.R.B. Clamp Ring

1. Inspect valve, replace any worn or damaged parts. Pay particular attention to gaskets and sealing surfaces.
2. Place tophead against valve body so that raised sealing surface on back of tophead engages gasket groove in valve body.
3. While holding tophead in place, place clamp ring assembly around perimeter of tophead and valve body so the "V" shaped clamp ring halves engage the tapered edges of tophead and valve body.
4. Pull clamp ring halves together and rotate wing nut & swing bolt assembly into place.



INSURE THAT EARS ON WING NUT WASHER STRADDLE BOTH SIDES OF LUG ON CLAMP RING. FAILURE TO DO SO CAN ALLOW CLAMP RING LUGS TO SPREAD, LEADING TO FAILURE OF CLAMP RING.

5. Snug down wing nut.
6. Using a non-marring hammer, gently tap the clamp ring in four places as indicated by the numbered arrows in the diagram below. This helps seat the clamp ring.
7. Re-tighten wing nut to maximum of 90in-lb torque.

TYPICAL BETTS Q.R.B.
HYDROLET VALVE SHOWN

