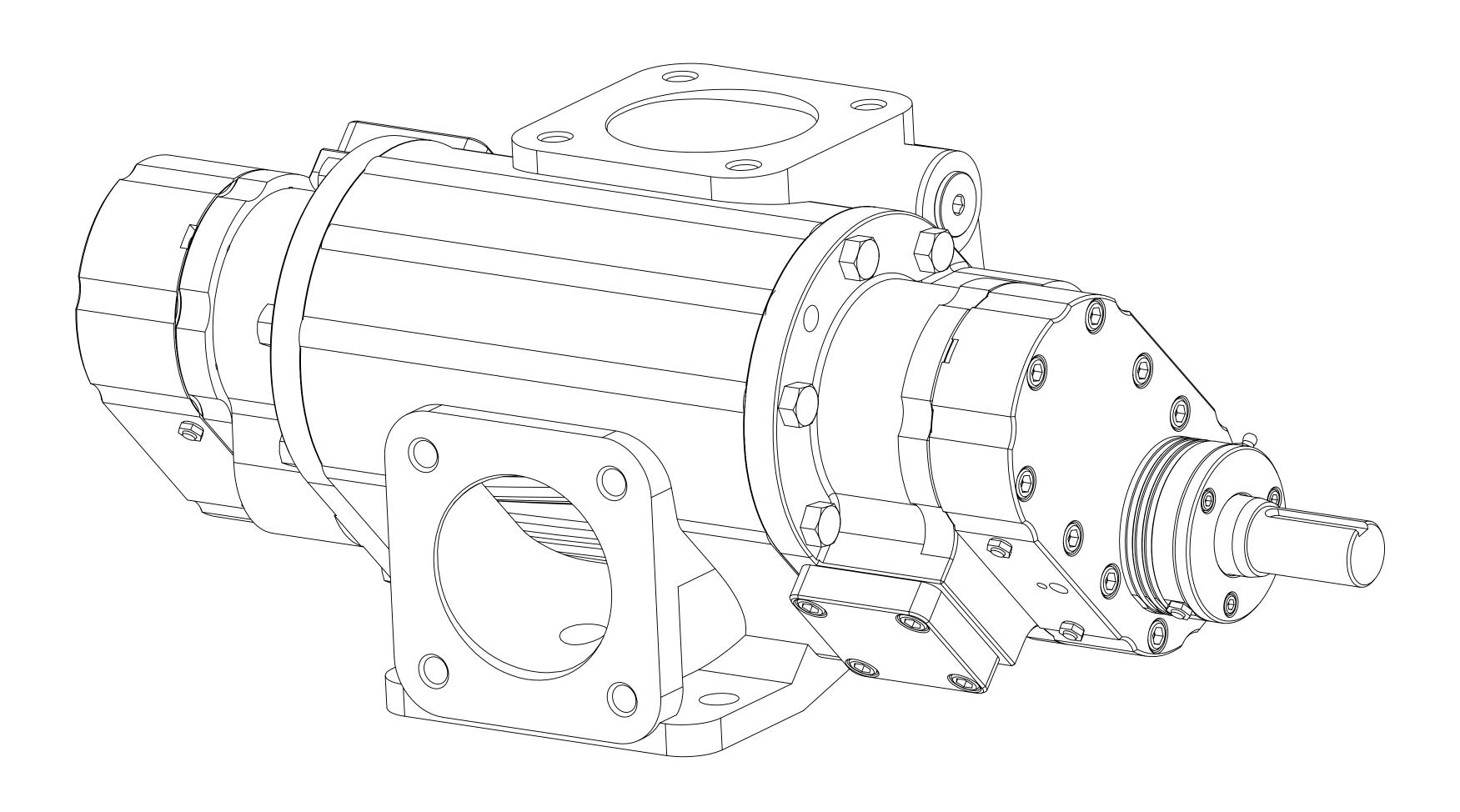
BearCat Pumps

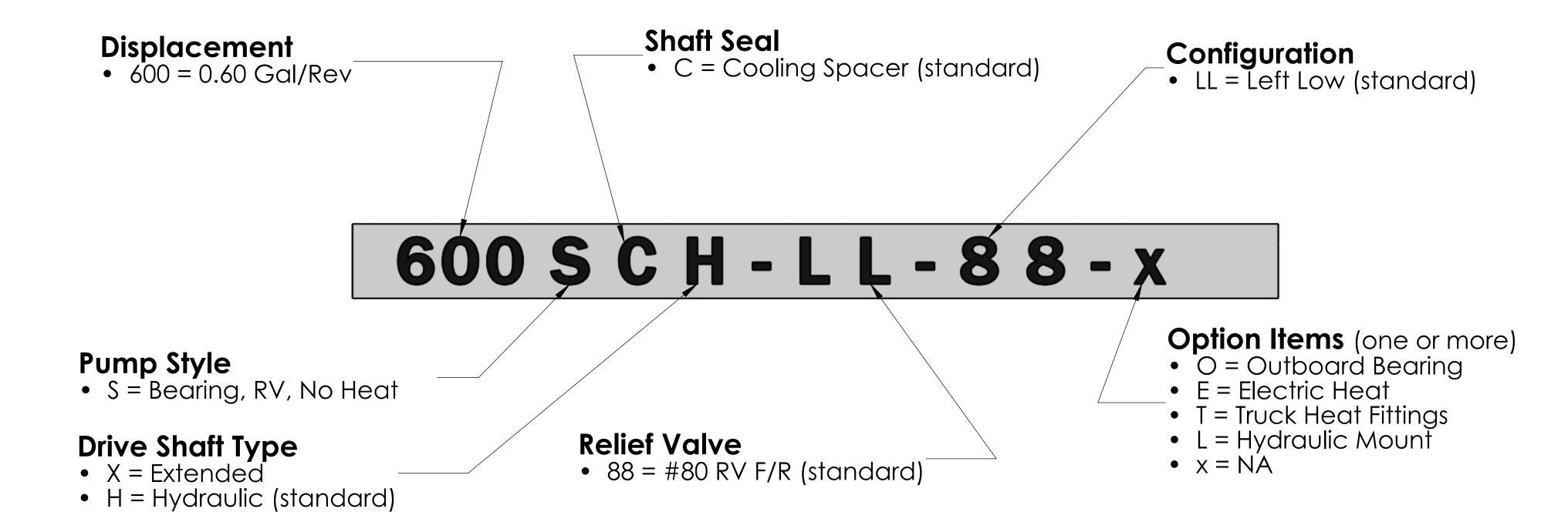
600S Product Manual

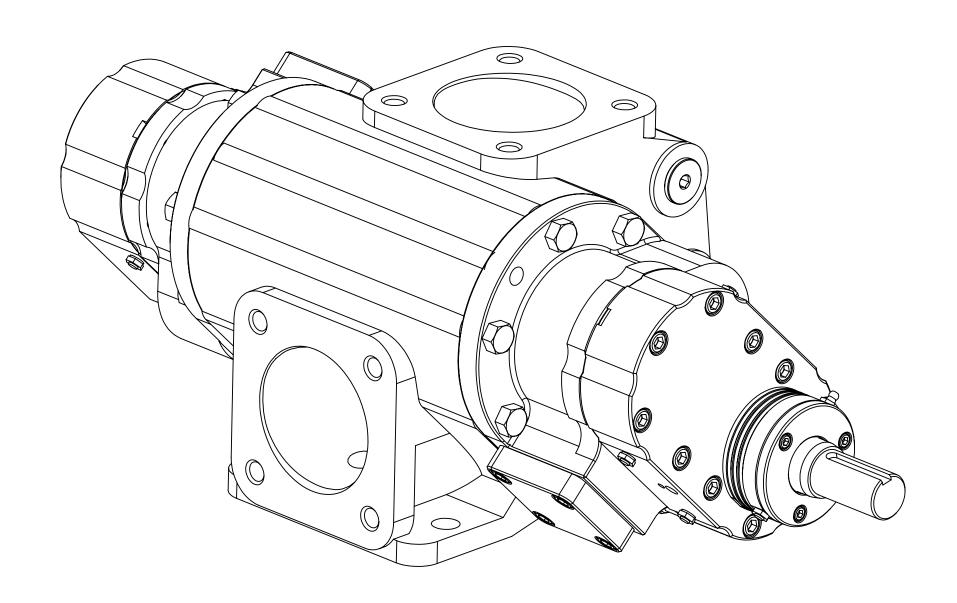
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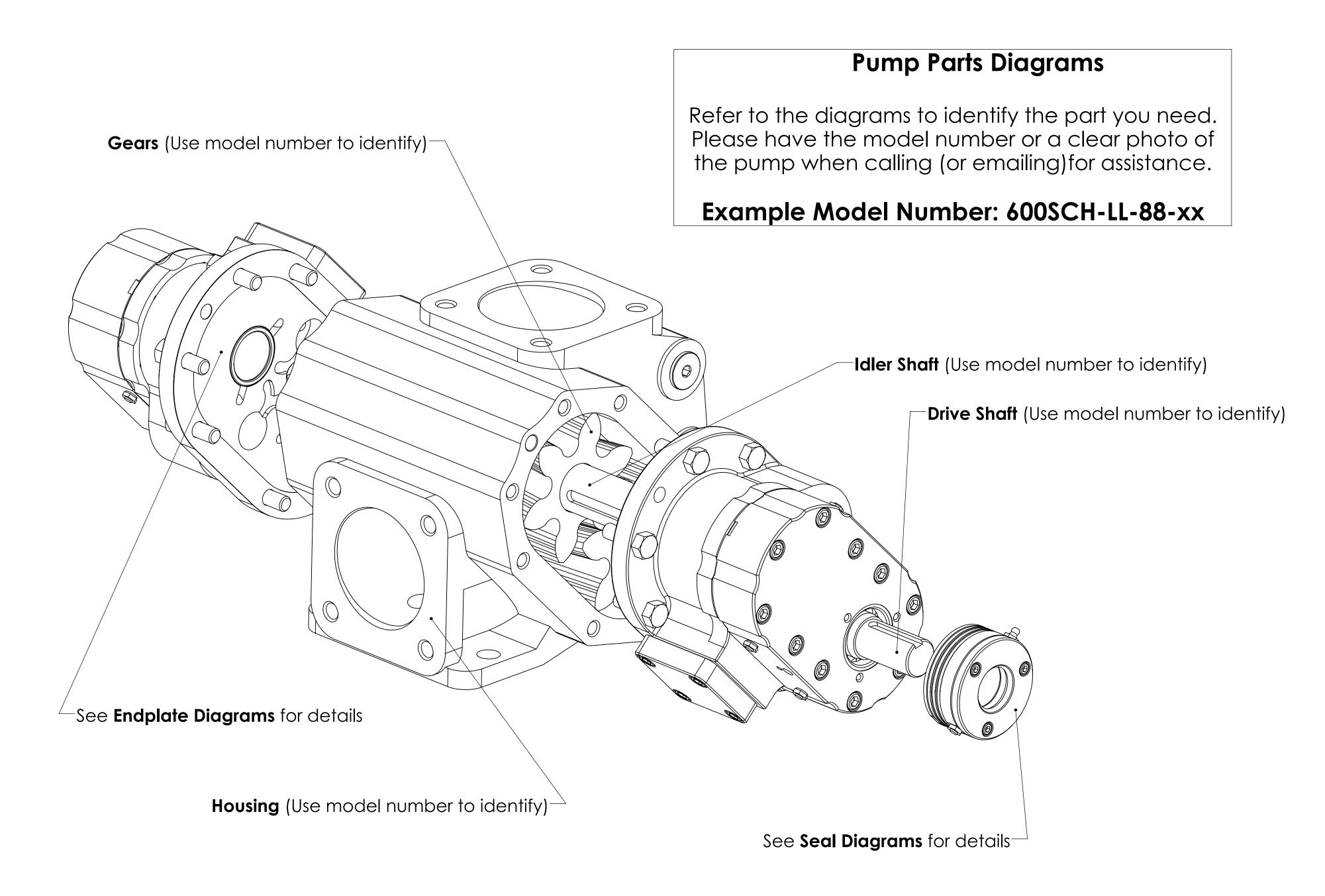
Building a Model Number





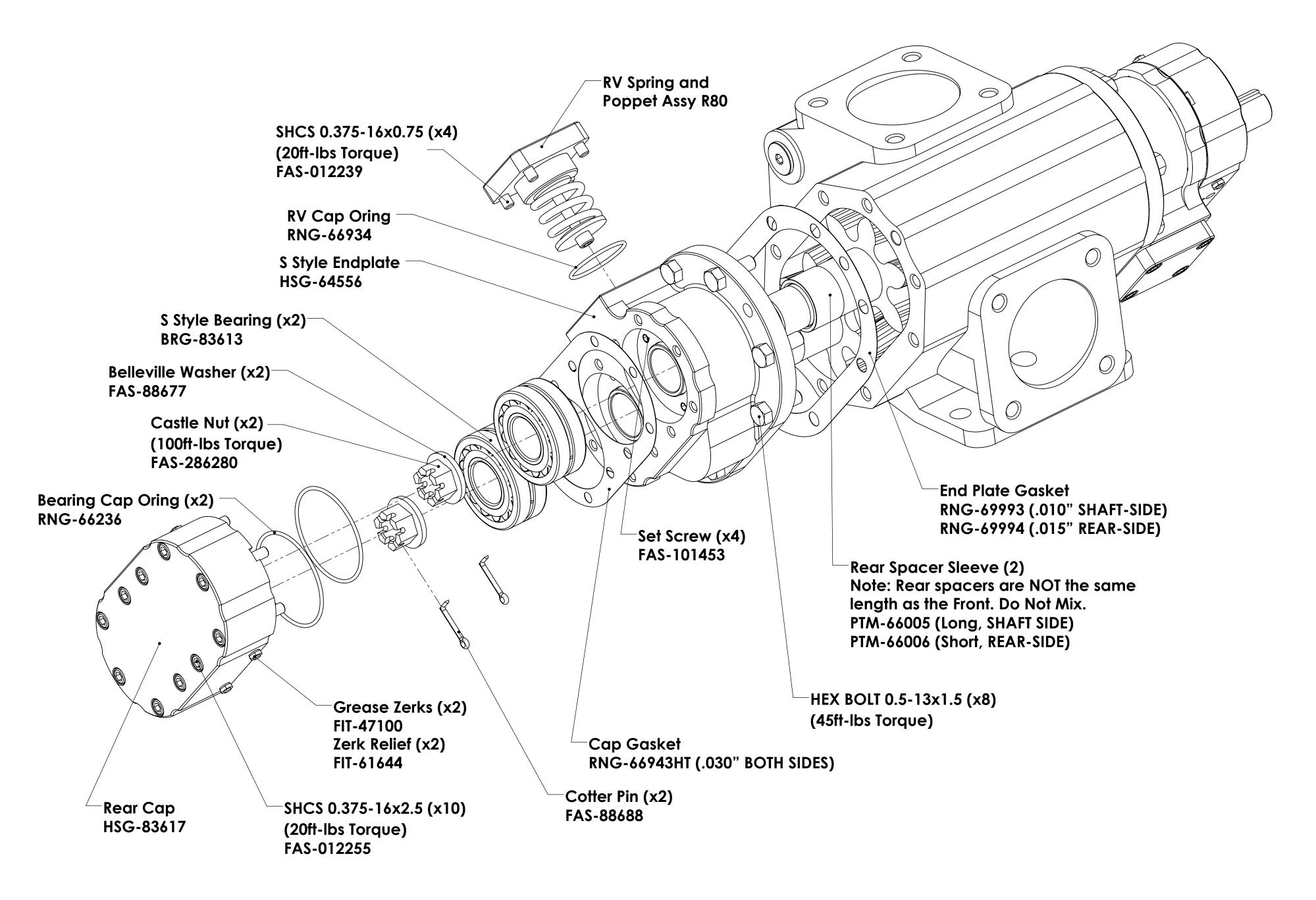
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Base Component Diagram



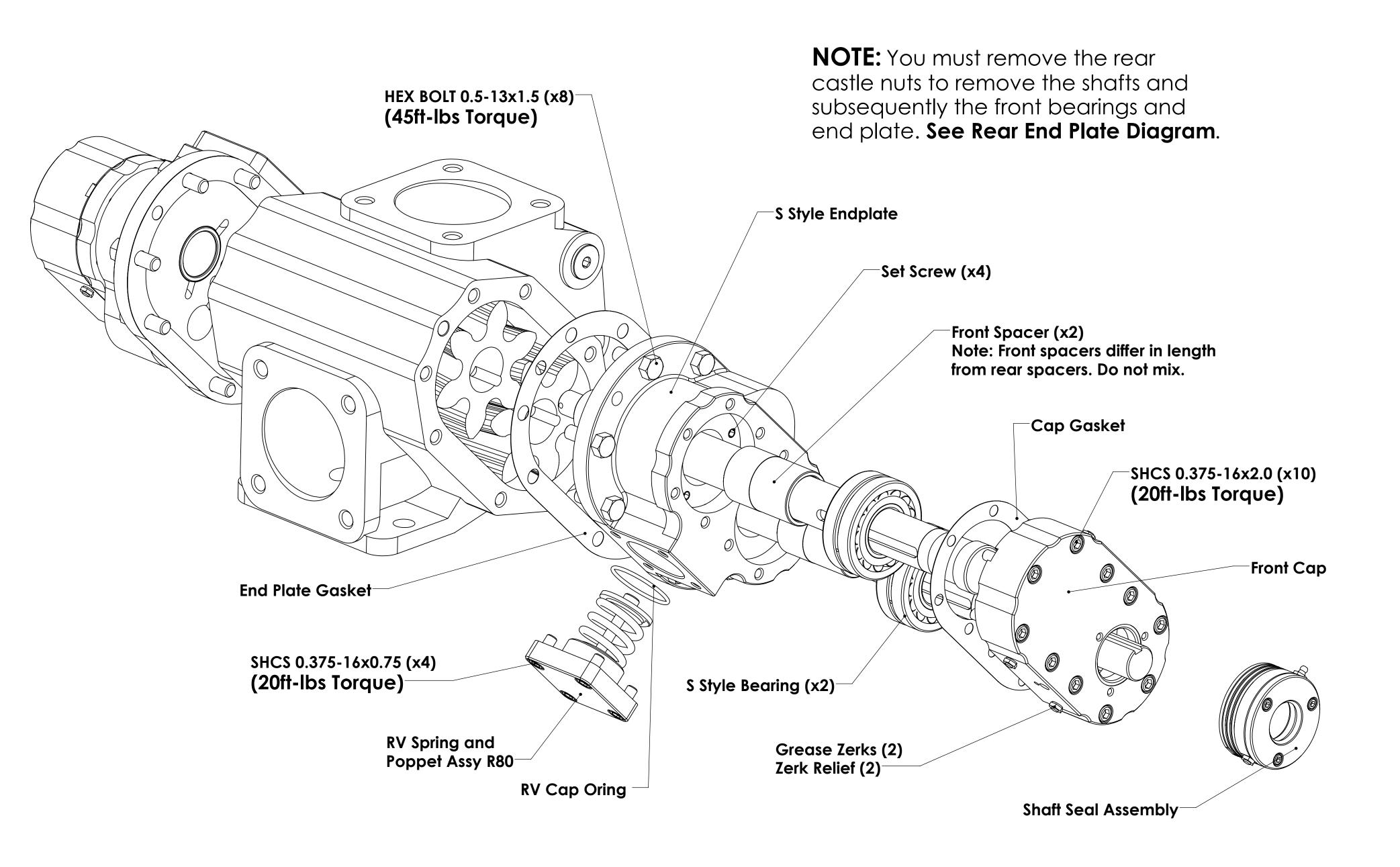
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Rear End Plate S Diagram



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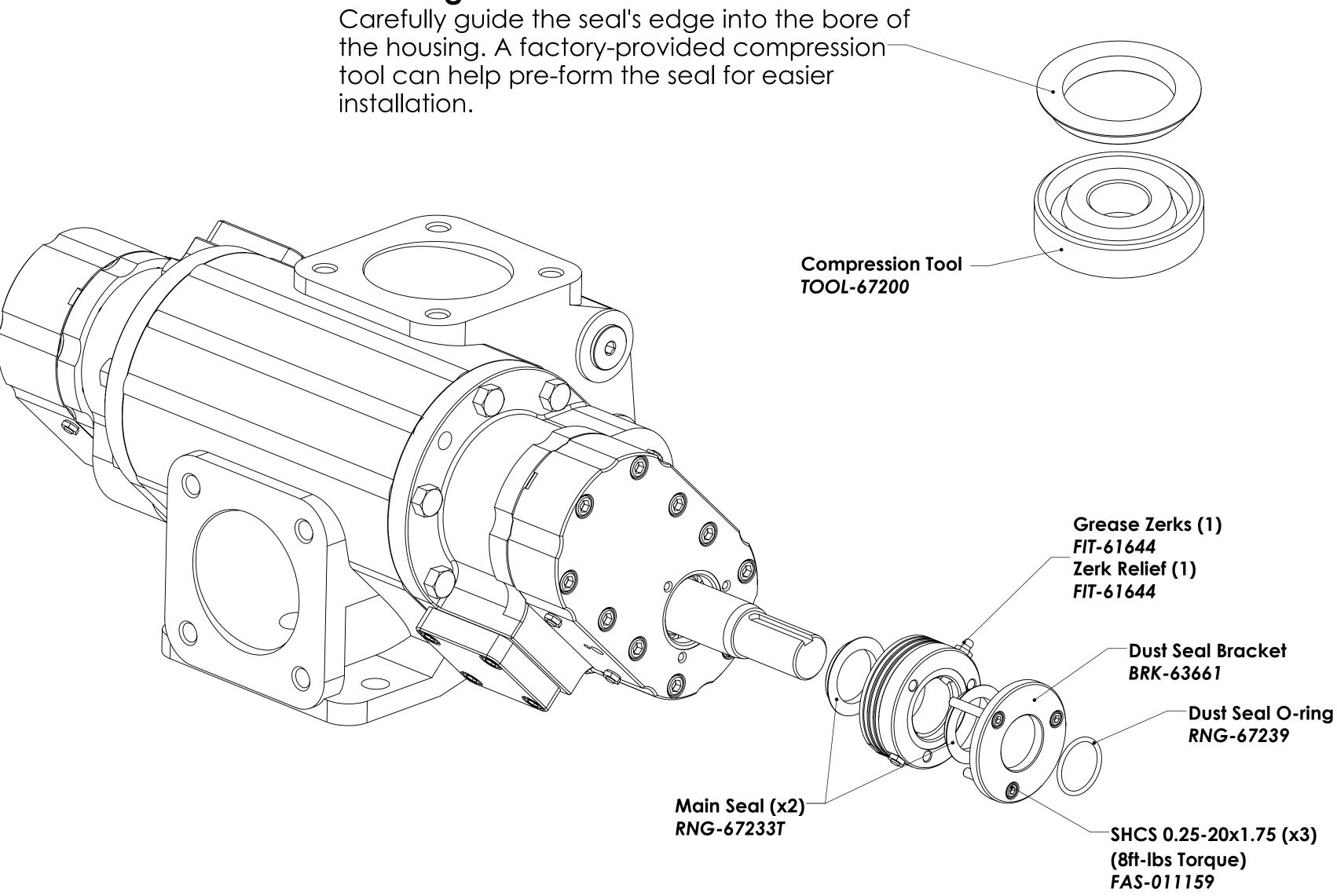
Front End Plate S Diagram



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Seal Assembly

Installing the Main Seal:

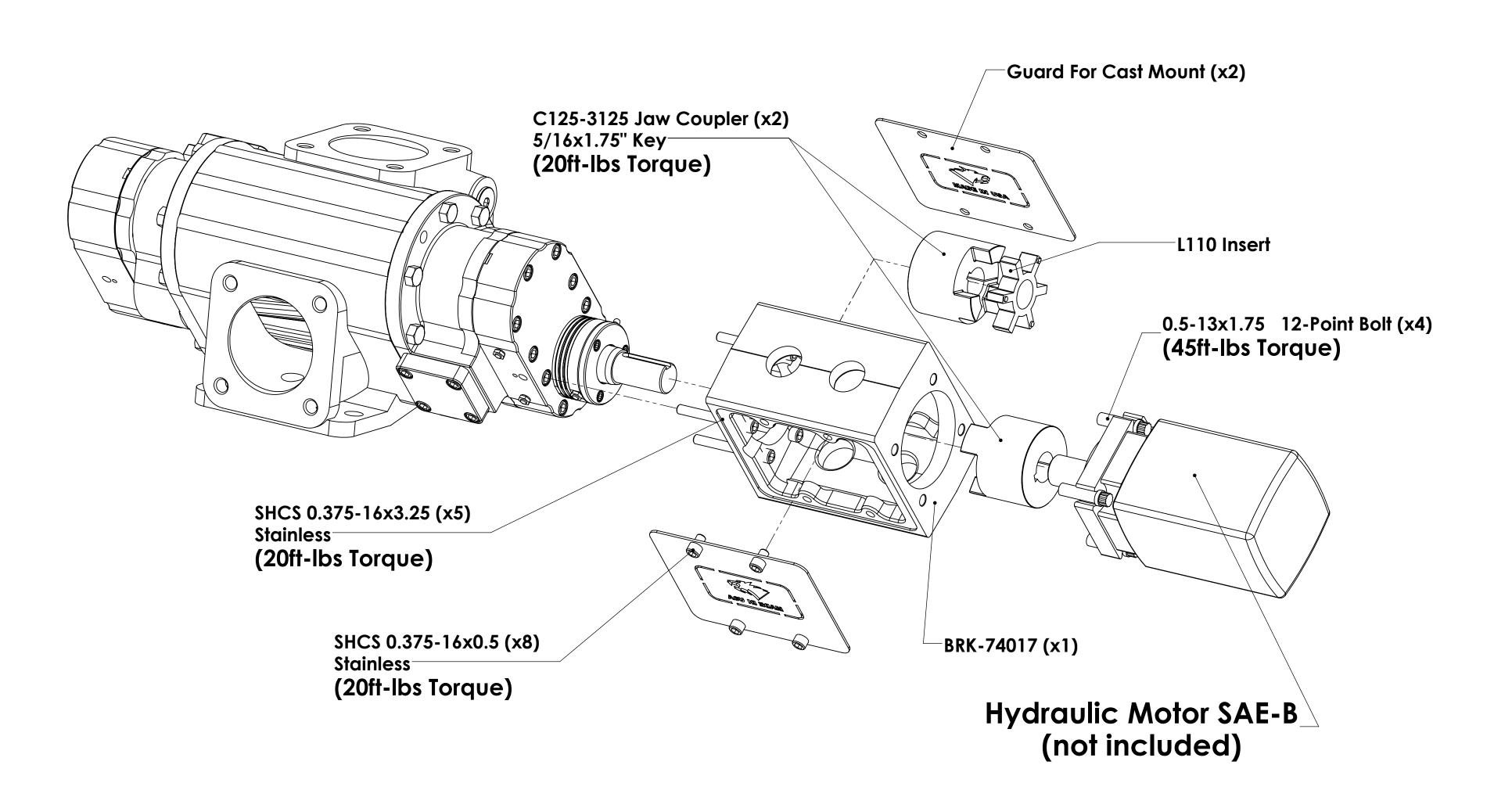


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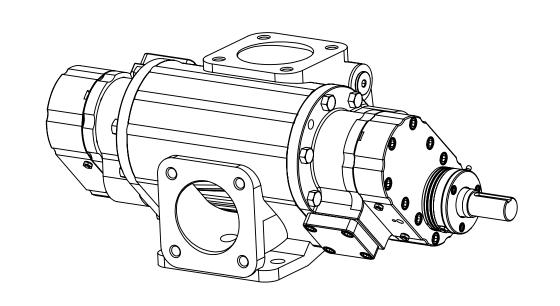
Option (L) - Hydraulic Mount

Example 600SCH - LL - 88 - (**L**) Option 'L' will include the following items.



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Operational Guidelines Tips for Optimal Pump Performance



Orientation:

For optimal pump performance, mount the pump with the intake on the side and the discharge on top. This setup improves priming, ensures lubrication during startup, and prevents air bubbles from getting trapped, which can cause a loss of prime.

Corrosion Mitigation:

To reduce corrosion when handling corrosive fluids, keep the pump below the waterline. Oxidation, which leads to corrosion, typically occurs at the waterline. Positioning the pump below it, like a plumber's trap, minimizes exposure to air, reducing corrosion risk and enhancing the pump's durability and reliability.

Greasing:

Greasing needs vary based on the fluid type. For non-abrasive, non-corrosive fluids like virgin asphalt or certain oils, greasing might not be necessary. However, it's crucial when dealing with abrasive or corrosive conditions.

Key Points:

Temperature: Use high-temperature grease for hot liquids.

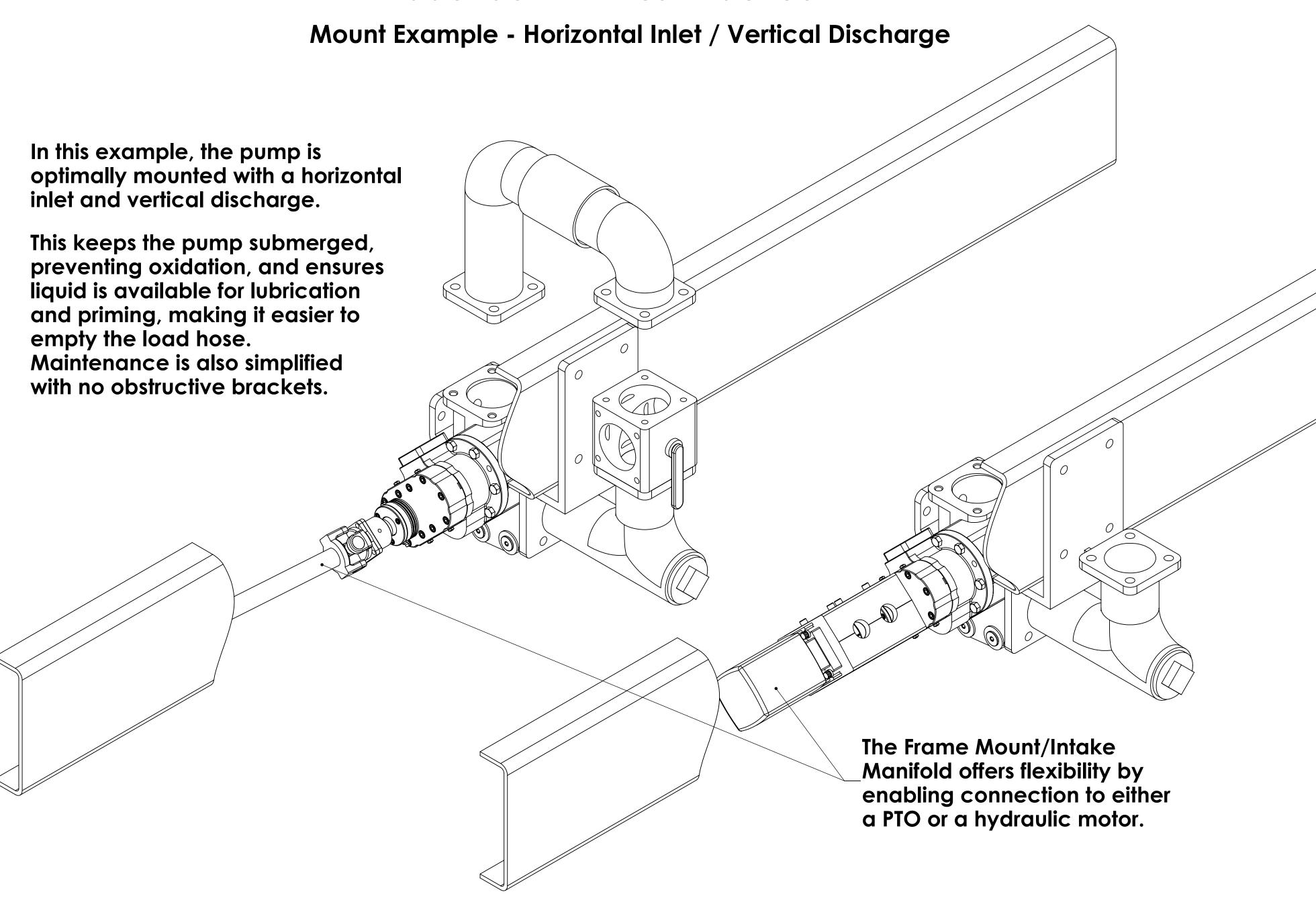
Solvency: Test grease compatibility by mixing it with the fluid; if it turns cloudy, they aren't compatible. **Caution:** Use a hand-operated grease gun to avoid overpressurizing, which can damage bearing seals.

Once you find compatible grease, start with weekly greasing. Check grease coverage by inspecting the rollers, then adjust the frequency as needed.

Pumping Efficiency:

Noise often indicates reduced pumping efficiency, possibly due to cavitation. To check for cavitation, compare the theoretical flow rate with the actual flow rate. If there's a significant difference and noise is present, reduce pump speed by up to 50% and observe changes. Gradually increase speed until noise returns, then set the operating speed 5-10% below that point.

Addendum 1 - Best Practice



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