5CP Stainless Steel Plunger Pump

Models

5CP6221
5CP6241CS
5CP6251

FEATURES

Superior Design
- Triplex plunger design provides smoother liquid flow.
- Hi-Pressure Seals are completely lubricated and cooled by the liquid being pumped.
- Inlet and discharge valve assemblies interchange for easier maintenance.
- Lubricated Lo-Pressure Seal provides double protection against external leakage.
- Oil bath crankcase assures optimum lubrication.
- Close tolerance concentricity of the ceramic plunger maximizes seal life.

Quality Materials
- Precision design 316 stainless steel valves and seats are hardened and polished for ultimate seating and extended valve life.
- 316 stainless steel manifold is strong and corrosion resistant.
- Special concentric, high-density, polished, solid ceramic plungers provide a true wear surface and extended seal life.
- Specially formulated, CAT PUMP exclusive, Hi-Pressure Seals offer unmatched performance and seal life.
- Die cast aluminum crankcase provides high strength, minimum weight and precision tolerance control.
- Chrome-moly crankshaft gives unmatched strength and surface hardness.
- Oversized crankshaft bearings with greater capacity mean longer bearing life.

Easy Maintenance
- Wet-end is easily serviced without entering crankcase, requiring less time and effort.
- Preset packings mean no packing gland adjustment is necessary, reducing maintenance costs.

WARNING

All systems require both a primary pressure regulating device (i.e., regulator, unloader) and a secondary pressure safety relief device (i.e., pop-off valve, safety valve). Failure to install such relief devices could result in personal injury or damage to the pump or to system components. CAT PUMPS does not assume any liability or responsibility for the operation of a customer’s high pressure system.

“Customer confidence is our greatest asset”
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<td>Hub and Key Assembly [See Drive Packages, Tech Bulletin 003]</td>
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EXPLODED VIEW

Models
5CP6221, 5CP6241CS, 5CP6251
May 2008

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Bold print part numbers are unique to a particular pump model. Italics are optional items. [ ] Date of latest production change.

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<th>5CP6241CS MATL</th>
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Silicone oil/grease required.
✝Production parts are different than repair parts.

See Tech Bulletins 002, 003, 024, 036, 043, 053, 056, 074, 077, 083, 088 and 095 for additional information.

MATERIAL CODES (Not Part of Part Number):

AL=Aluminum  BBNP=Brass/Nickel Plated  CC=Ceramic  CM=Chrome-moly  
EPDM=Ethylene Propylene Diene Monomer  FCM=Forged Chrome-Moly  FPM=Fluorocarbon  HT=Hi-Temp (EPDM Alternative)
NBR=Medium Nitrile (Buna-N)  PVDF=Polyvinylidene Fluoride  S=304SS  SS=316SS  SSL=316SS/Low Carbon SNG=Special Blend (Buna)
STCP=Steel/Chrome Plated  STZP=Steel/Zinc Plated  STL=Steel  TNM=Special High Strength
Die cast aluminum **crankcase** means high strength, lightweight, and excellent tolerance control.

2. Oversized crankshaft **bearings** provide extended bearing life and pump performance.

3. Chrome-moly **crankshaft** provides unmatched strength and surface hardness for long life.

4. Matched oversized TNM **connecting rods** noted for superior tensile strength and bearing quality.

5. The **plunger rods** are hardened, surface plated for wear resistance, with high load capacity.

6. The stainless steel **slinger** provides back-up protection for the crankcase seal, keeping pumped liquids out of the crankcase.

7. Special concentric, high-density, polished, solid ceramic **plungers** provide a true wear surface and extended seal life.

8. **Manifolds** are high tensile strength 316 stainless steel for liquid compatibility and long term, continuous duty.

9. 100% **wet seal** design adds to service life by allowing pumped liquids to cool and lubricate on both sides.

10. 316 stainless steel **valves, seats and springs** provide corrosion-resistance, ultimate seating and extended life.

11. Specially formulated, CAT PUMP exclusive, **Hi-Pressure Seals** offer unmatched performance and seal life.