Parts & Service for APV

- APV Pumps
- APV Design and Construction Features
- APV Rotors and Size Chart

Since 1964
APV Crepaco “R” Series Rotary Pumps incorporate a long life, sanitary, stainless steel body with versatile, resilient, molded rotors and a heavy cast iron gear case, all of which are designed to give dependable, economical service over a wide range of products and applications.

Design and construction meet the rigid requirements of 3A, USDA, BISSC and other regulatory standards.

All product contact parts are 316 stainless steel with food grade seal and rotor materials which will not impart odors or affect flavors. All parts are interchangeable and replaceable in the field.

1. **FRONT COVER** Stainless steel precision ground to seal flat against pump body.

2. **GASKET** Specially formulated paper, dimensional accuracy assured.

3. **ROTORS** Precision molded rubber or plastic with stainless steel hub.

4. **SHAFT SEALS** Lip seal, molded in a variety of compounds for both pressure and vacuum applications as standard. Optional single mechanical seal, carbon vs 316 stainless steel. Required for speeds in excess of 600 rpm.

5. **PUMP BODY** One piece stainless steel. Machined and polished for easy cleanup.

6. **SEAL BEARING** Slips over “O” ring and rotor shaft to provide easily replaceable seal surface.

7. **STUDS** Stainless steel, assures quick and proper assembly.

8. **GEAR CASE** Heavy cast iron housing provides oil reservoir for timing gears and shaft bearings; exterior is finished with a quality epoxy paint which is heat and chemical resistant.

9. **REAR COVER** Contains oil seals and shaft bearing adjustment nuts.

10. **DRIVE SHAFT** Provided with standard key way, can be supplied in either top or bottom location.

11. **SHAFT BEARING** Heavy duty Timken tapered roller type.

12. **TIMING GEARS** Precision machined spur gears, hardened for long, quiet operation. Welded to rotor shaft to assure accurate timing.

13. **LOCATING PLUGS** Pressed into gear case; provide accurate positioning of pump body.

14. **LEAK DETECTOR** Atmospheric area between sanitary body and gear case.

15. **ROTOR SHAFT** Stainless steel square with special locating corner for proper rotor insertion.
APV Crepaco “R” Series Rotary Pumps are known all over the world for their rugged, long lasting design and efficient performance.

Backed by a worldwide sales, engineering and service organization. “R” Series Rotary Pumps are designed and built in a modern manufacturing facility using the latest programmable automated machine tools. Each component must meet rigid quality control standards.

APV Crepaco offers an exceptional range of capacities, rotor types, mounting configurations and options. The exclusive resilient rotors form a continuous flexible seal between suction and discharge. Product flow is positive, continuous, non-agitating and completely controlled at all times.

APV Crepaco Rotary Pumps Feature:
- High quality stainless steel, sanitary construction
- Mounting flexibility to meet the most demanding installation
- Easy disassembly and cleanup
- Minimum maintenance and down time
- Interchangeable components

General Specifications

<table>
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<tr>
<th>Features</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>3&amp;3HD</th>
<th>4&amp;4HD</th>
<th>6&amp;6HD</th>
<th>700HD</th>
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<tbody>
<tr>
<td>Maximum Capacity*</td>
<td>U.S.gpm</td>
<td>2.5</td>
<td>6</td>
<td>9</td>
<td>55</td>
<td>145</td>
<td>240</td>
<td>200</td>
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<td></td>
<td>m3/hr</td>
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* Based on 70o (21oC) water 0 psig.
R= Rubber  SE=Solid Epoxy  M=Metal  SGL= Single

** Maximum power requirement at increases with product viscosity.
ROUTERS

Precision molded and machined rotors have been the heart of the APV Crepaco “R” Series Rotary Pump for more than 25 years. They are performance proven and are available in a variety of designs to meet specific application requirements. All APV Crepaco rotors meet 3A, USDA, BISSC and other regulatory standards.

Configurations

Standard 5-Lobe with recessed faces provided on all pump sizes No. 1, 2, 3, 4, 6 and 700. These exclusive APV Crepaco formulated resilient covered rotors are recommended for most applications. Normal size up to 135°F (57°C). Under size up to 250°F (121°C).

Single Lobe with recessed faces available for pump sizes No. 6 and 700, specification as standard 5-lobe except faces are smooth (flush), not recessed. Available for pump sizes No. 2, 3, 4, 6 and 700. Used with abrasive or clinging products that might clog recessed face. Also used in degassing/deaerating pumps with front outlet covers. Normal size up to 135°F (57°C), under size up to 250°F (121°C).

Materials

Tolerance of plastic hub. Available for pump sizes No. 2, 3, 4, 6 and 700. Recessed or flush face 5-lobe design. Normal size up to 150°F (66°C), under size up to 250°F (121°C). Recommended operating limitation: 150 psig (10.2 bar) maximum.

Metal Non-galling and precision machined with 5-lobe profile. Available for pump sizes No. 3, 4, 6 and 700. Includes rotor face wear configuration. Normal size rotors are supplied up to 135°F (57°C) service and 0510 under size for high temperature. (up to 180°F [82°C]) applications. Available with either stainless steel or epoxy hub.

Seal - Shape

Flush Face Same

Seals effectively against pressure and vacuum.

Seal - Materials

Red Dot (Nitrite) Good all around material, supplied as standard. Good tensile strength and resistance to oil and abrasion. Limited resistance to acetic acid (vinegar) and high temperatures. Temperature range -40° to +250°F (-40° to +121°C).

Green Dot (Neoprene*) Recommended for low aniline point mineral oils, vegetable oils, animal oils and many solvents. Good resiliency at low temperatures. Temperature range -50° to +250 (-46° to +121° 0).

Blue Dot (Viton*) Recommended for strong acids, petroleum oils, silicone fluids, many solvents, and high temperatures. Not recommended for acetic acid (vinegar) or steam. Temperature range 0 to +350°F (-16° to +177° 0).

Two Orange Dots (EPDM) Recommended for acetic acid (vinegar), diet beverage syrups, hot water and steam. Not recommended for saturated fats or aliphatic, aromatic solvents. Temperature range -40° to +300°F (-40° to +150°C).

Green Dot (Neoprene*) Recommended for
APV CREPACO, INC

Standard Rotary Pump

Parts & Service for APV

The Parkway, Peterborough, ON K9J 7K2

1-800-361-5361 • 705-743-5361
Fax: 705-743-4312

www.harcosupply.com
sales@harco.on.ca

675 The Parkway, Peterborough, ON K9J 7K2

1-800-361-5361 • 705-743-5361
Fax: 705-743-4312

www.harcosupply.com
sales@harco.on.ca

APV 5