Choose from Nine High Performance Models

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DISCHARGE SIZE*</th>
<th>TYPICAL FLOW RANGE*</th>
<th>TYPICAL DISCHARGE HEAD*</th>
<th>TYPICAL STROKES PER MINUTE*</th>
<th>MAX. SOLIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-IC</td>
<td>1 1/2&quot; (40 mm)</td>
<td>1 – 15 gpm (0.06 – 0.95 lps)</td>
<td>20 – 150' (6 m – 4.5 m)</td>
<td>2 – 30</td>
<td>(25.4 mm)</td>
</tr>
<tr>
<td>20-IC</td>
<td>2&quot; (50 mm)</td>
<td>3 – 17 gpm (0.19 – 2.3 lps)</td>
<td>20 – 150' (6 m – 4.5 m)</td>
<td>2 – 30</td>
<td>(25.4 mm)</td>
</tr>
<tr>
<td>30-IC</td>
<td>3&quot; (75 mm)</td>
<td>6 – 35 gpm (0.38 – 4.73 lps)</td>
<td>20 – 150' (6 m – 4.5 m)</td>
<td>2 – 30</td>
<td>(28.6 mm)</td>
</tr>
<tr>
<td>30P</td>
<td>3&quot; (75 mm)</td>
<td>10 – 125 gpm (0.62 – 7.9 lps)</td>
<td>20 – 150' (6 m – 4.5 m)</td>
<td>2 – 30</td>
<td>1 1/8&quot;</td>
</tr>
<tr>
<td>40-IC</td>
<td>4&quot; (100 mm)</td>
<td>15 – 185 gpm (0.95 – 11.1 lps)</td>
<td>20 – 150' (6 m – 4.5 m)</td>
<td>2 – 30</td>
<td>1 1/8&quot;</td>
</tr>
<tr>
<td>60P</td>
<td>6&quot; (150 mm)</td>
<td>20 – 315 gpm (1.25 – 18.9 lps)</td>
<td>20 – 150' (6 m – 4.5 m)</td>
<td>2 – 30</td>
<td>2 1/2&quot;</td>
</tr>
</tbody>
</table>

*Maximum flow, head and strokes per minute exceed typical ranges. Consult factory for specific information.

Efficient Air Cylinder Design
Both the P. and P. Series of Gorman-Rupp RAMPARTS® A.D.D. pump designs incorporate this feature. The diaphragm-assist air cylinder offers virtually no resistance as the pump moves through its discharge stroke. Competitive pumps utilize a spring-assist design that requires more energy to operate the pump. RAMPARTS A.D.D. pumps offer longer diaphragm life and reduced air consumption as a result of this design.

Rugged Construction
With their rugged ductile iron bolted castings, standard RAMPARTS A.D.D. Pumps can handle mildly corrosive and abrasive applications with ease. A wide range of elastomers linings is available for more extreme applications.

Air-driven diaphragm pumps have no close tolerance assemblies, so maintenance and service are minimal.

RAMPARTS A.D.D. pumps employ externally accessible check valve assemblies. Both the bolted and ‘twist lok handle/yoke’ designs allow check valves to be quickly and easily inspected, cleaned or serviced.

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Typical Applications

The rugged construction and extra-thick pump casing of Gorman-Rupp air-driven diaphragm pumps stand up to the abuses of the most demanding sludge and slurry applications.

They overcome the “high-wear” problem commonly found in double diaphragm and progressive cavity pumps.

Air-driven diaphragm pumps are capable of operating dry on suction lifts up to 20 feet (6.5 m) and handling head-end solids content up to approximately 30%. Depending on pump model, they will pass up to 3” (76 mm) diameter spherical solids. (Solids size is determined by check valve type.)

Pump stroke rate, discharge stroke time, suction drive pressure and discharge drive pressure can all be adjusted independently. Pumps will easily handle heavy sludges at their rate of accumulation in clarifiers and settling basins.

When it comes to handling heavy sludges and slurries, there’s only one name you need to know—Gorman-Rupp.

Alcohol Plants
Auto Plants
Battery Recyclers
Concrete Plants
Chemical Plants
Distillation/Beverage/Winery
Commercial Laundries
Food Processing Wastes

Reflections
Waste Manufacturers
Redwood Yards
Sand & Gravel Plants
Steel Manufacturing
Tanneries
Textile Mills
Municipal Wastewater

Optimal Elastomeric Linings

Vertically Oriented Flow-Through Design
Free-Standing Base
Check Valve Assembly

Diaphragm Assist Air Cylinder

Optional ‘Twist Lok’ Yoke

Heavy-Duty Construction for Longer Life and Better Performance

- Designed for Handling Heavy Sludges and Slurries
- RAMPARTS® Heavy-Duty Construction for Longer Life and Better Performance
- RAMPARTS® Designed for Handling Heavy Sludges and Slurries
- Free-Standing Base
- Check Valve Assembly
- Vertically Oriented Flow-Through Design
- Optional ‘Twist Lok’ Yoke
- Diaphragm Assist Air Cylinder

Compressed air applied to the top of diaphragm pushes the diaphragm down, closing the suction check valve and forcing the liquid out through the discharge check valve.

Compressed air is then directed into the bottom of air cylinder, raising the air cylinder piston and retracting the diaphragm. The retracting diaphragm creates a vacuum, which closes the discharge check valve and fills the pump cavity through the suction check valve for the next stroke. Used air is exhausted to the atmosphere.