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Priming-Assisted Petroleum Pumps

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ROTO-PRIME® Priming-Assisted Petroleum Pumps

Roto-Prime[®] Provides Automatic, Positive Pumping

Roto-Prime® pumps are actually two pumps in one: a variable capacity vane pump used during the priming cycle, and a standard centrifugal pump to move the liquid.

Whenever air or vapor is present at the start of the pumping operation – or when there is a loss of suction because of air or vapor during pumping – the priming pump automatically moves air and vapor from the suction line to discharge line. Once the flowing liquid from the centrifugal portion of the pump builds up sufficient pressure in the discharge system, the pressure backs up through a tube to act on the bottom of the priming pump's movable slide block, placing it in a neutral position during normal operation.

• Full Priming

Roto-Prime[®] priming-

pumps are specifically

designed for pumping

petroleum products,

petrochemicals

incorporates a

and solvents. The

Roto-Prime design

variable capacity vane

pump which quickly

and automatically

evacuates air and

vapor, making the

and off-loading

transports and stripping hoses.

pump ideal for loading

assisted centrifugal

With air or vapor in the lines, pressure of the spring on top of the movable slide holds the priming pump in full pumping position.

• Partial Priming

As the pump evacuates air and vapor from the lines, liquid pressure builds up on the underside of this slide, moving it upward toward neutral.

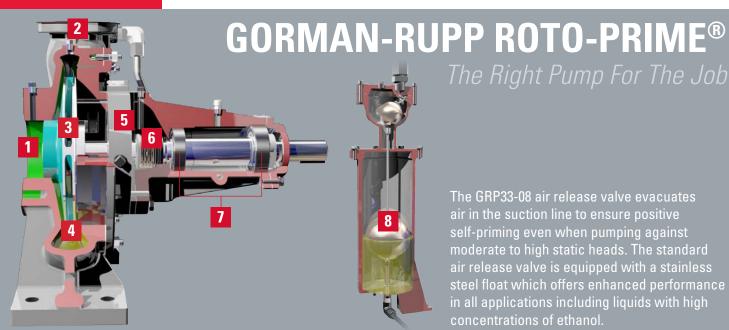
Neutral

When air and vapor are removed, liquid pressure equalizes spring pressure and the pump automatically slides into neutral...where it remains until air and vapor again appear in the system.









The GRP33-08 air release valve evacuates air in the suction line to ensure positive self-priming even when pumping against moderate to high static heads. The standard air release valve is equipped with a stainless steel float which offers enhanced performance in all applications including liquids with high concentrations of ethanol.



- Suction Inlet
- **Discharge Outlet**
- **Balanced Impeller**
- 04 | Volute

- 05 | Variable Displacement 08 | Optional Air Release Priming Pump
- Valve

· Available in a variety of motor and base configurations

- 06 | Mechanical Seal
- 07 | Sealed End Ball Bearings

Specifications

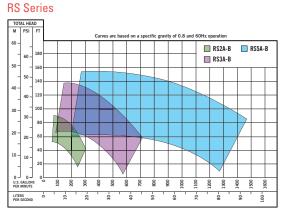
Pump Size Range: 3" (75 mm) x 2" (50 mm) to 6" (150 mm) x 5" (125 mm) Max. Capacity: 1460 GPM (92.1 lps) Max. Head: 390' (118.9 m) Max. Operating Speed: RS Series (single volute) 1750 rpm, RD Series (double volute) 3450 rpm Materials of Construction: Aluminum Impeller, Ductile Iron or Cast Steel Housing, Steel or Stainless Steel Shaft, Fluorocarbon Mechanical Shaft Seal*

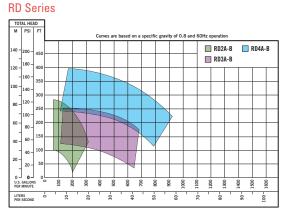
*Optional seals available to handle a variety of liquid formulations. Consult factory for details.

Optional Accessories

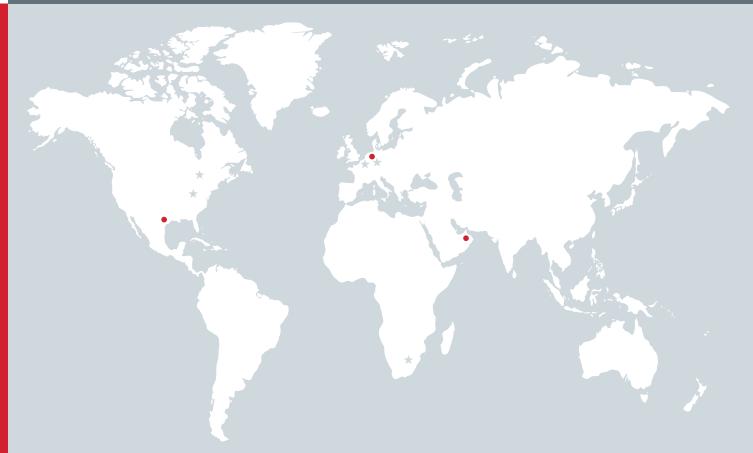
- Stainless Steel Shafts
- Bronze Impellers
- Companion Flanges
- Swing Check Valves
- Specialized Mechanical Seals
- Air Release Valve

Pump Performance Data





FLUID-HANDLING EQUIPMENT DESIGNED WITH YOUR NEEDS IN MIND



Manufacturing Facilities
Distribution Centers

Gorman-Rupp USA Mansfield, Ohio, USA Gorman-Rupp Canada St Thomas, Ontario, Canac Gorman-Rupp Europe Culemborg, Netherlands Namur, Belgium

Gorman-Rupp Africa Cape Town, South Africa Durban, South Africa Johannesburg, South Africa (Headquarters

Distribution Centers

Dubai, United Arab Emirates Grand Prairie, Texas, USA Culemborg, Netherlands

Engineering and manufacturing superiority has been the hallmark of Gorman-Rupp since our inception in 1933. Today we bring our products to life in some of the most efficient, modern and state-of-the-art manufacturing facilities in the world. Gorman-Rupp has a selection of nearly 3,000 pump models, and our world-class team of distributors has worked closely with thousands of end users around the world. We have the proven expertise and the resources to specify, manufacture, test and service your pump, and to ensure reliable performance for the long haul.





GORMAN-RUPP PUMPS

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GORMAN-RUPP PUMPS

GRPUMPS.COM

AV-05970-REV022016

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