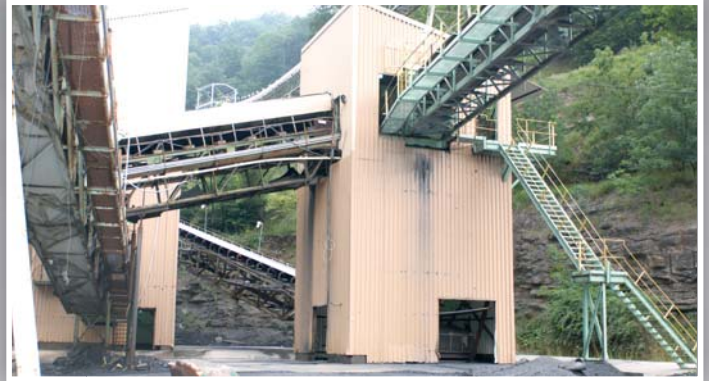




GRpumps.com

PUMPS FOR UNDERGROUND MINING



Whether it's a copper mine in Montana, a coal mine in Kentucky or a gold mine in Alaska, you'll find Gorman-Rupp pumps working reliably day after day, week after week, and year after year, to keep mine operations running smoothly.



In-line staged submersible pump in a coal mine.

THE RIGHT PUMP FOR EVERY UNDERGROUND MINING APPLICATION

Gorman-Rupp electric motor-driven and hydraulic powered submersible pumps rank among the most efficient and dependable in the mining industry. They range in size from 1-1/2" to 12" with capacities to 7,100 gpm (448 lps) and heads to 600 feet (183 m). They offer superior hydraulic design and deliver greater flow with less horsepower, reducing operating costs.

The pumps can be installed in series (in-line staging) to extend your overall pumping distance. This pump configuration effectively doubles the head at a given flow and eliminates the need for a variety of different pump sizes.

Our self-priming centrifugal pumps are designed for the tough pumping requirements of the mining industry. Our self-priming centrifugal trash pumps are designed for handling tough solids. Depending on the model, they will pass up to 3" diameter solids and can be installed high and dry above the liquid source for easy service.

Gorman-Rupp has an experienced staff of engineers dedicated to the design and construction of the most efficient and serviceable pumps in the mining industry. Call our trained representatives for assistance in selecting the proper pumps and repair parts for your specific application.

Distributors worldwide can provide additional resources to help with selection of the pumps and related equipment for your specific application.

They are also available to offer suggestions on maintaining your equipment for maximum pumping performance for years of service.



Self-priming centrifugal pump in a mine.

A COMPLETE LINE OF AMERICAN-MADE, MSHA APPROVED SUBMERSIBLE MINE PUMPS



Gorman-Rupp offers a full line of submersible pumps approved by the Mine Safety and Health Administration (MSHA) for use in gassy mines or tunnels. Our pumps also carry the Commonwealth of Pennsylvania approval. Models are available in 2, 3, 4 and 6-inch discharge sizes with horsepower ranges from 1 to 60, capacities to 2,100 gpm (133 lps) and heads to 380 feet (116 m).

For corrosive applications, we offer 316 stainless steel fitted pump models. For corrosive and abrasive applications, hardened Stainless Steel is available. Some models are available with DuraBlue™ suction head, seal plate and diffuser for lightweight portability in

the mine. Other materials such as G-R Hard Iron are also available.

Whether it is our slimline design submersible, which allows for operation in hard-to-reach places where other pumps can't go, or our superior hydraulic design, which reduces operating costs by delivering more gpm at less horsepower, Gorman-Rupp MSHA submersibles offer superior efficiency and dependability.

Features and Benefits

- **Dual Seals** – Our primary seal keeps dirty water in the pump end and prevents contamination of the oil cavity. A second seal provides extra protection against the possibility of damage to the motor. Positive oil lubrication enables the pump to run dry without seal damage.
- **Top Discharge** – When Gorman-Rupp submersibles start pumping, a flow of water is established between the inner and outer walls of the motor housing which cools the motor and prevents overheating.
- **Explosion-Proof Motors** – Motors are specifically designed for vertical submersible pumps and meet all MSHA requirements.
- **Controls** – All MSHA submersible pumps are equipped with a NEMA Type 10 explosion-proof control box. Enclosures are constructed of lightweight cast aluminum and are equipped with hydraulic/magnetic fast-trip circuit breakers for thermal and overload explosion-proof protection. When automatic operation is required, an optional intrinsically safe float controller is available.



MSHA submersibles at work.





SUBMERSIBLE PUMPS

Gorman-Rupp offers a full line of submersible pumps, including MSHA approved pumps for safe operation in gassy mines and tunnels. Dewatering submersibles are available in slimline and widebase configurations. A complete line of solids-handling submersibles is also available.



SELF-PRIMING CENTRIFUGAL PUMPS

Gorman-Rupp has been helping miners move sludges, slurries and dirty water for more than 70 years. Our self-priming trash pumps are designed for handling tough solids. Depending on pump model, they will pass up to 3" diameter solids. Our complete lines of self-priming, centrifugal pumps are designed for easy service. They can be installed high and dry above the liquid source with only a suction line in the liquid. Most are available in special metal construction for corrosive/abrasive applications.



GENERAL PURPOSE PUMPS

Gorman-Rupp offers hundreds of pumps for the mining industry. In addition to submersible and self-priming pumps, there are straight centrifugal and diaphragm pumps for handling everything from clear water to slurries.

Product information is subject to change; consult factory for details.



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