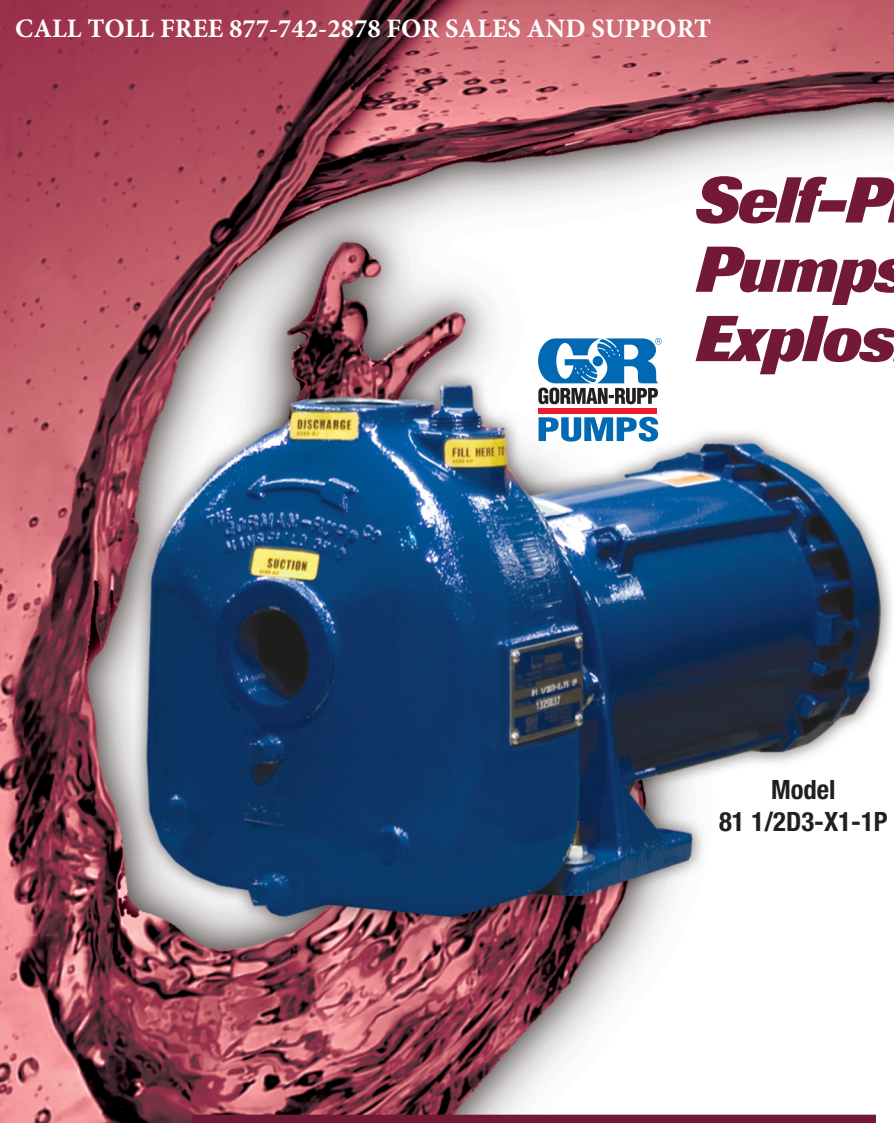
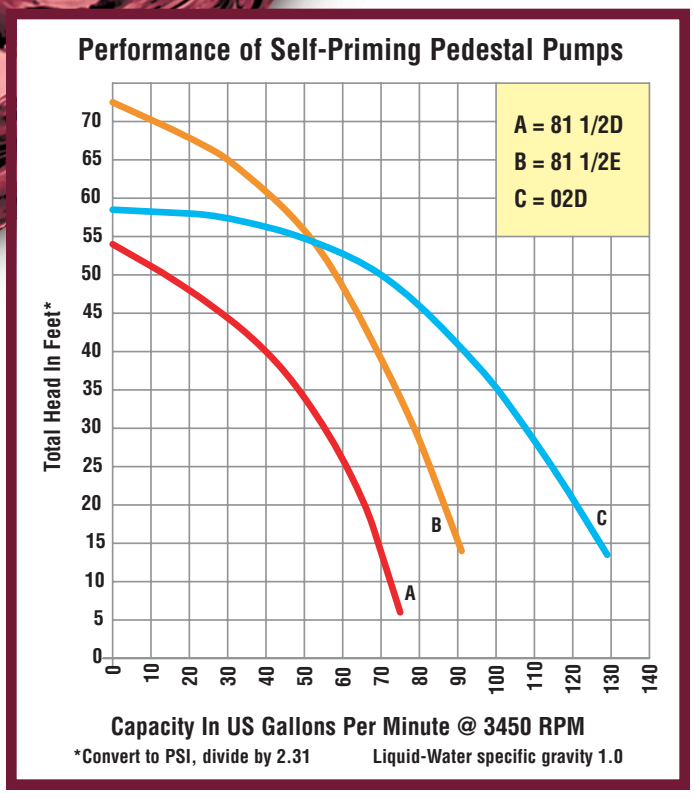
# Self-Priming Centrifugal Pumps Coupled to Explosion Proof Motors




Model
81 1/2D3-X1-1P

- **Cast Iron Construction**
- **Viton® Seals with Carbon and Ni-resist Faces**
- **1-1/2˝ & 2˝ NPT Port Sizes**
- **Self-Priming to 20 Ft.**
- **Maximum Operating Pressure to 31 PSI**
- **Maximum Temperature 160° F**
- **Maximum Flow 128 GPM**
- **Maximum Head 72 Ft.**
- **Solids Handling up to 3/8˝ Diameter**
- **1/2 to 2 HP Single and Three Phase 3450 RPM Motors**




This line of Gorman-Rupp self-priming centrifugal pumps are coupled to an hazardous duty explosion proof motor. These pumps are designed for use in hazardous environments and/or for handling flammable liquids. 1-1/2" and 2" NPT port sizes available with single or three phase motors. All models are self-priming and are equipped with Viton® seals with carbon and Ni-resist faces capable of handling liquids with temperatures to 160° F. Maximum flow to 128 GPM and maximum operating pressure to 31 PSI.

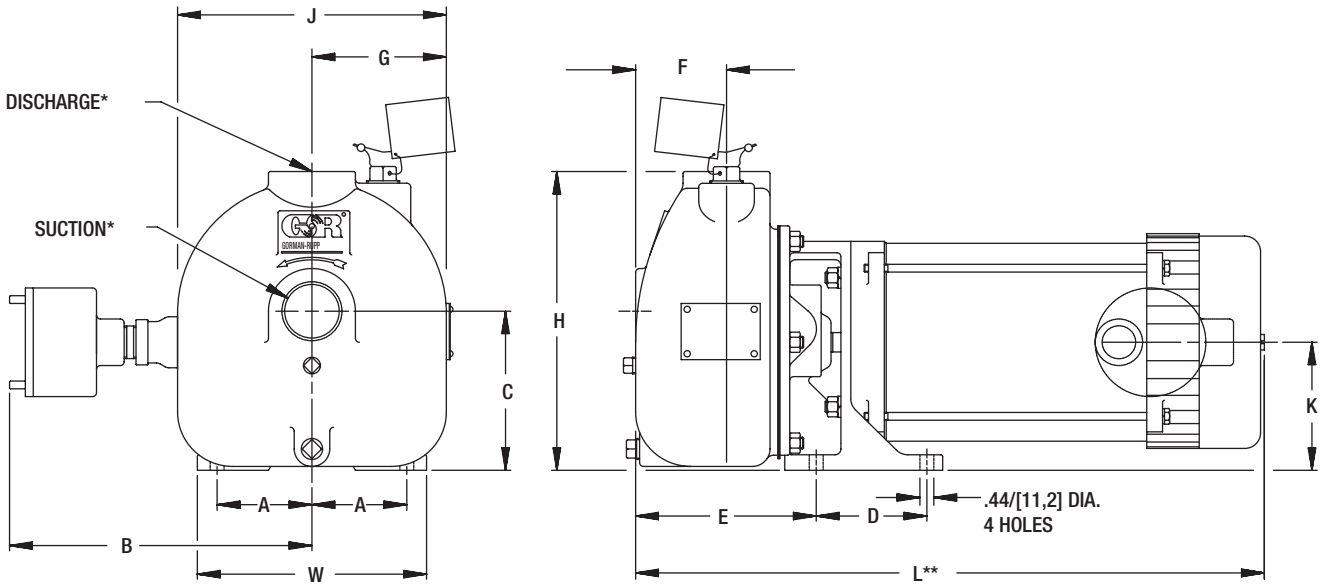
Exp. Proof Classes: Class 1, Group D, Class 2, Goups E,F,G or FG.

GR SELF-PRIMING CENTRIFUGAL PUMPS COUPLED TO EXPLOSION PROOF MOTORS

AMT
A Gorman-Rupp Company
400 Spring Street • Royersford, PA 19468 USA
**www.amtpump.com • 888-amt-pump (268-7867)**

*For use with nonflammable liquids compatible with pump component materials.* Viton® and Teflon® are registered trademarks of E. I. Dupont.

# Self-Priming Centrifugal Pumps Coupled to Explosion Proof Motors




| Model | Curve | SUC* | DIS* | A | B | C | D | E | F | G | J | K | L** | W | H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81-1/2D3-X1-1P | A | 1.5 | 1.5 | 3.0 [76.2] | 9.5 [242.8] | 5.1 [130.0] | 3.5 [88.9] | 5.7 [145.0] | 2.8 [73.2] | 4.2 [108.0] | 8.5 [215.9] | 4.1 [104.9] | 20.0 [508.0] | 7.0 [177.8] | 9.6 [244.6] |
| 81-1/2D3-X1-3P | A | 1.5 | 1.5 | 3.0 [76.2] | 9.5 [242.8] | 5.1 [130.0] | 3.5 [88.9] | 5.7 [145.0] | 2.8 [73.2] | 4.2 [108.0] | 8.5 [215.9] | 4.1 [104.9] | 20.0 [508.0] | 7.0 [177.8] | 9.6 [244.6] |
| 81-1/2E3-X1.5-1P | B | 1.5 | 1.5 | 3.5 [76.2] | 9.5 [242.8] | 5.1 [130.0] | 3.5 [88.9] | 5.6 [144.5] | 2.8 [73.2] | 4.2 [108.0] | 8.5 [215.9] | 4.1 [104.9] | 21.0 [533.4] | 7.2 [183.9] | 9.6 [244.6] |
| 81-1/2E3-X1.5-3P | B | 1.5 | 1.5 | 3.5 [76.2] | 9.5 [242.8] | 5.1 [130.0] | 3.5 [88.9] | 5.6 [144.5] | 2.8 [73.2] | 4.2 [108.0] | 8.5 [215.9] | 4.1 [104.9] | 21.0 [533.4] | 7.2 [183.9] | 9.6 [244.6] |
| 02D3-X2-1P | C | 2.0 | 2.0 | 2.8 [73.2] | N/A | 6.6 [168.1] | 3.5 [88.9] | 5.8 [147.6] | 2.8 [73.2] | 4.8 [123.9] | 9.7 [247.6] | 5.3 [136.6] | 21.0 [533.4] | 7.0 [177.8] | 10.8 [276.4] |
| 02D3-X2-3P | C | 2.0 | 2.0 | 2.8 [73.2] | N/A | 6.6 [168.1] | 3.5 [88.9] | 5.8 [147.6] | 2.8 [73.2] | 4.8 [123.9] | 9.7 [247.6] | 5.3 [136.6] | 21.0 [533.4] | 7.0 [177.8] | 10.8 [276.4] |

(*) Standard NPT pipe thread.
(**) This dimension may vary due to motor manufacturer's specifications.
NOTE: Dimensions are in inches (centimeters) and have a tolerance of ± 1/8".

| Model | Driver Type & HP | NPT Port Size (SUC x DIS) | Basic Construction | Seal Type & Elastomer/Faces | VAC | Cycle | Motor Enclosure | Ship Wt. (Lbs.) |
|---|---|---|---|---|---|---|---|---|
| 81-1/2D3-X1-1P | Elect. Motor 1 HP | 1-1/2" x 1-1/2" | Gray Iron | Viton® Carbon Ni-resist | 115/230 | 60 Cycle | X-Proof | 89 |
| 81-1/2D3-X1 3P | Elect. Motor 1 HP | 1-1/2" x 1-1/2" | Gray Iron | Viton® Carbon Ni-resist | 208-230/460 | 60 Cycle | X-Proof | 89 |
| 81-1/2E3-X1.5-1P | Elect. Motor 1.5 HP | 1-1/2" x 1-1/2" | Gray Iron | Viton® Carbon Ni-resist | 115/230 | 60 Cycle | X-Proof | 76 |
| 81-1/2E3-X1.5-3P | Elect. Motor 1.5 HP | 1-1/2" x 1-1/2" | Gray Iron | Viton® Carbon Ni-resist | 230/460 | 60 Cycle | X-Proof | 76 |
| 02D3-X2-1P | Elect. Motor 2 HP | 2" x 2" | Gray Iron | Viton® Carbon Ni-resist | 115/230 | 60 Cycle | X-Proof | 101 |
| 02D3-X2-3P | Elect. Motor 2 HP | 2" x 2" | Gray Iron | Viton® Carbon Ni-resist | 230/460 | 60 Cycle | X-Proof | 101 |

## Standard Features

- Cast Iron Construction
- Viton® Seals with Carbon and Ni-resist Faces
- 1-1/2" & 2" NPT Port Sizes
- Maximum Operating Pressure to 31 PSI
- Maximum Temperature 160° F
- Maximum Flow 128 GPM
- Maximum Head 72 ft.
- Solids Handling to 3/8" Diameter
- Self-priming to 20 ft.
- Single to Three Phase 3450 RPM Motors

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