PAGE 600 OCTOBER 2023

Basic Pump



Self Priming Centrifugal Pump Model RS5A31-B and RS5A32-B

Size 6" x 5"

PUMP SPECIFICATIONS

Size: 6" x 5" (152 mm x 127 mm) Flanged. Casing: (RS5A31-B) Ductile Iron 65-45-12. (RS5A32-B) Cast Steel 70-36.

Maximum Operating Pressure 81 psi (558 kPa).* Enclosed Type, Five Vane Impeller: Aluminum 356-T6. Handles 1/2" (12,7 mm) Diameter Spherical Solids.

Impeller Shaft: Steel 1045. Rotor: Copper Alloy C93400.

Bearing Housing: Ductile Iron 65-45-12.

Body Cover: (RS5A31-B) Ductile Iron 65-45-12. (RS5A32-B) Cast Steel 70-36.

Center/Spacer Plate: (RS5A31-B) Ductile Iron 65-45-12.

(RS5A32-B) Cast Steel 70-36.

Radial Bearing: Open Double Row Ball Type. Thrust Bearing: Open Single Row Ball Type. Bearing Lubrication: SAE 30 Non-Detergent Oil.

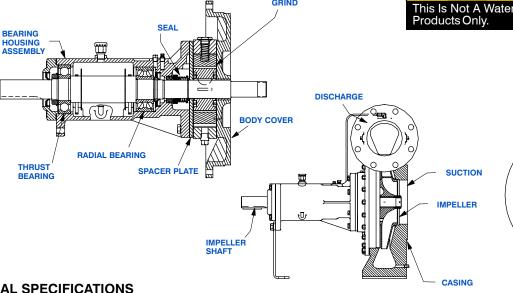
Gaskets: Buna-N and PTFE.

Priming: Rotary Vane Type with Built-in Spring-Loaded Priming Assist Valve. Optional Equipment: Standard 5" Discharge Check Valve (Required for Priming), Stainless Steel 416 Impeller Shaft, PTFE Seal with Fluorocarbon O-Ring, PTFE Seal with Buna-N O-Ring.

*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

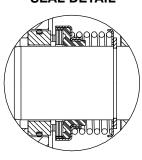






GROUP





SEAL SPECIFICATIONS

Seal: Mechanical; Self-Lubricated. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Carbon Rotating Face; Ni-Resist Stationary Face; Maximum Temperature of Liquid Pumped is 160°F (71°C).



GORMAN-RUPP PUMPS

www.grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.

Specification Data

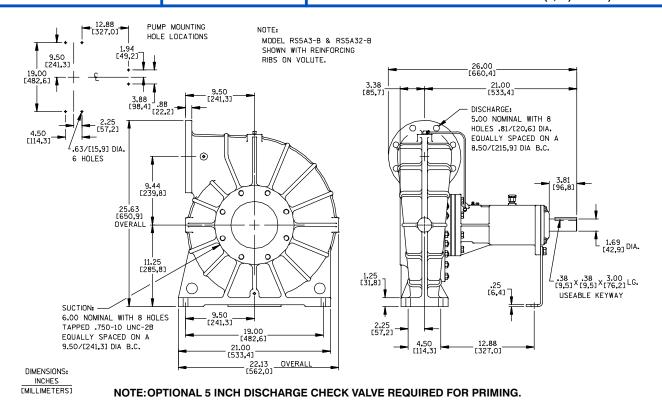
SECTION 35, PAGE 600

OVERALL DIMENSIONS and APPROXIMATE WEIGHTS RS5A31-B

RS5A32-B

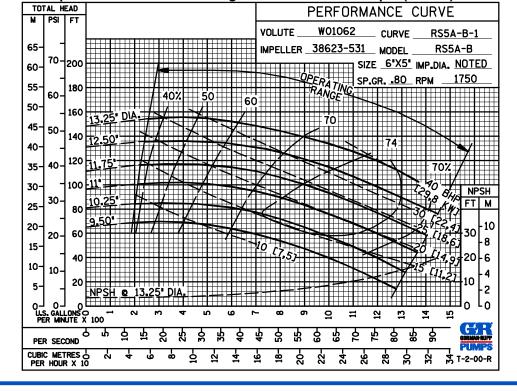
EXPORT CRATE SIZE:

PUMP NET WEIGHT: 353 LBS. (160,1 KG.) 400 LBS. (181,4 KG.) SHIPPING NET WEIGHT: 402 LBS. (182,3 KG.) 456 LBS. (206,8 KG.) 22.3 CU. FT. (0,63) CU. M.)



Air Release Valve Required When Static Discharge Pressure Exceeds 8 psi (55 kPa).

PERFORMANCE BASED ON PETROLEUM TRIMMED IMPELLER





GORMAN-RUPP PUMPS

www.grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.

Curve Data

TOTAL HEAD

M PSI FT

8 20

LITRES PER SECOND

CUBIC METRES O

10

OJ OJ O IIIII U.S. GALLONS O PER MINUTE X 100 Sec. 35

PERFORMANCE CURVE

PAGE 610.1 OCTOBER 2023

> -20 -10

☆ T-5-11-R

15

VOLUTE_ W01062 __ CURVE __ RS5A-B-2 IMPELLER <u>38623-531</u> MODEL RS5A-B 32 | 36 100 SIZE 6"X5" IMP.DIA. NOTED SP.GR. .80 RPM _ 28- 32 90 28 80 24-70 24 20-60 20 16-50 NPSH 16 FT M 40 12-12 30 -30 8-

1 1 1 1

10-12-14-16-16-20-22-22-24-26-26-30-

69 79 77 77

50 HERTZ
PERFORMANCE
BASED ON
PETROLEUM
TRIMMED
IMPELLER



GORMAN-RUPP PUMPS

www.grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.