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Pump Issue 1
May 10, 1994



PUMP MODEL RS2A31-B

MANUAL
PART 2 of 3

PARTS
LIST
WITH
PERFORMANCE CURVE

THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

GORMAN-RUPP OF CANADA LIMITED • ST. THOMAS, ONTARIO, CANADA Printed in U.S.A.

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Register your new
Gorman-Rupp pump online at
www.gormanrupp.com/register.

Valid serial number and e-mail address required.

RECORD YOUR PUMP MODEL AND SERIAL NUMBER

Please record your pump model and serial number in the spaces provided below. Your Gorman-Rupp distributor needs this information when you require parts or service.

Pump Model: _____

Serial Number: _____

PERFORMANCE CURVES – SECTION A

RECORDING MODEL AND SERIAL NUMBERS

Please record the pump model and serial number in the spaces provided below and in the separate Installation/Operation Manual accompanying your pump. Your Gorman-Rupp distributor needs this information when you require parts or service.

Pump Model: _____

Serial Number: _____

WARRANTY INFORMATION

The pump warranty is provided as part of Gorman-Rupp's support program for customers who operate and maintain their equipment as described in this manual and other accompanying literature. Please note that should the equipment be abused or modified to change its performance beyond the original factory specifications, the warranty will become void and any claim will be denied.

PERFORMANCE CURVES

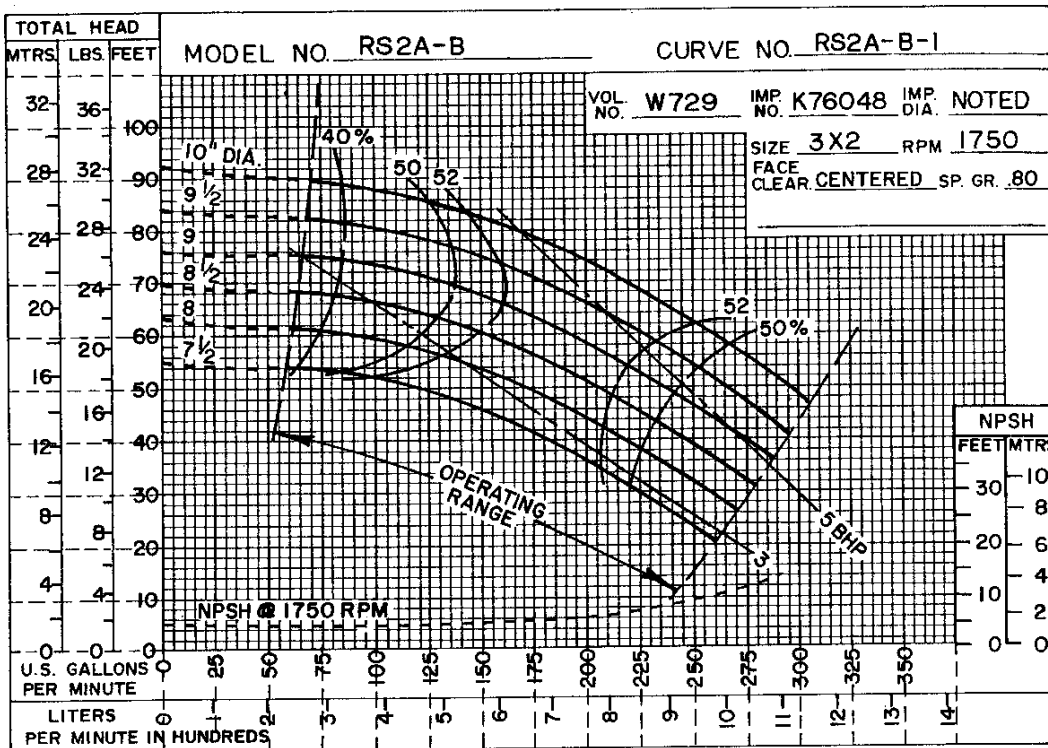
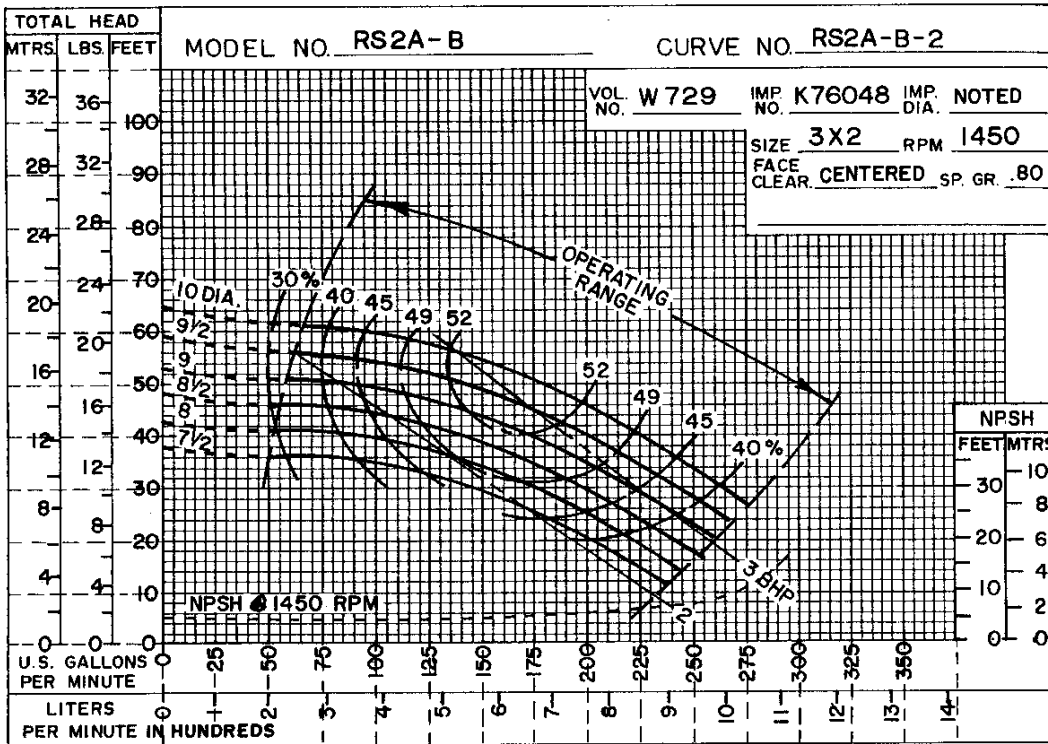
The performance curves on the following pages are based on 70° F (21° C) clear water at sea level, corrected to 0.80 specific gravity, with minimum suction lift. Since pump installations are seldom identical, your performance may be different due to such factors as viscosity, specific gravity, elevation, temperature, and impeller trim.

If your pump serial number is followed by an "N", your pump is **NOT** a standard production model. Contact the Gorman-Rupp Company to verify performance or part numbers.

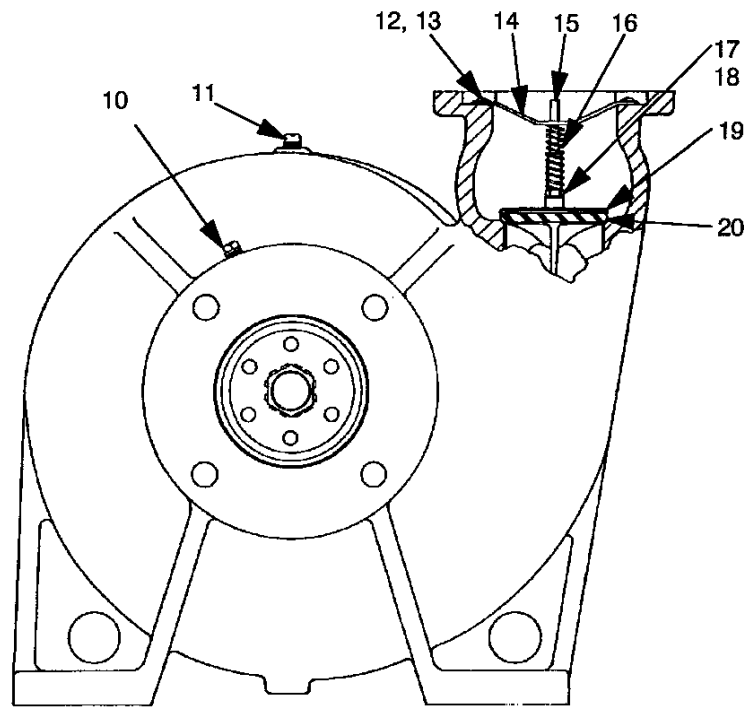
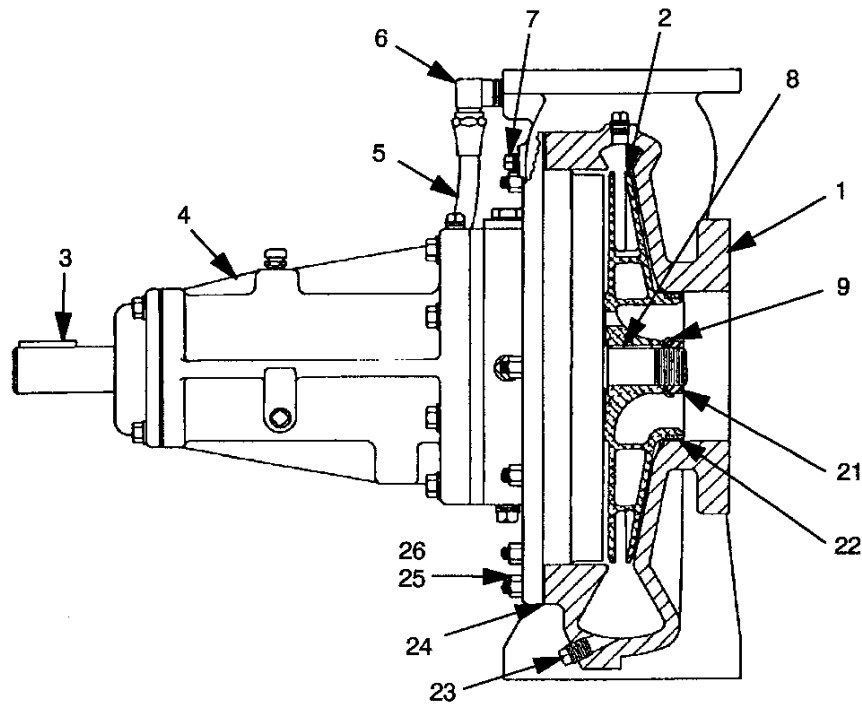


Pump speed and operating condition points must be within the continuous performance range shown on the curve(s).

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Performance Curve - Model RS2A31-B



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**S/N 1050487 Up
PUMP ISSUE 1**

**PARTS LIST
Pump Model RS2A31-B**

If your pump serial number is followed by an "N", your pump is **NOT** a standard production model. Contact the Gorman-Rupp Company to verify part numbers.

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	PUMP CASING	W0729	11010	1	22 †	WEAR RING	NOT AVAILABLE		2
2 *	IMPELLER	K76048	13040	1	23	PIPE PLUG	P02	15079	1
3 *	SHAFT KEY	N0406	15990	1	24 *	PUMP CASING GASKET	R08108	20000	1
4	BRG HOUSING ASSY	44143-087	-----	1	25	STUD	C0606	15991	12
5	PRIMING TUBE ASSY	K85674	-----	1	26	HEX NUT	D06	15991	12
6	MALE ELBOW	26351-133	-----	1	NOT SHOWN:				
7	PIPE PLUG	P02	15079	1		DISCH CHK VALVE GSKT	11589GA	18000	1
8 *	IMPELLER KEY	K79328-23	15990	1	*	DISCH FLANGE GASKET	N14226	18000	1
9	BRG LOCKWASHER	23962-506	-----	1		INSTRUCTION TAG	38817-011	-----	1
10	PIPE PLUG	P02	15079	1		BEARING TAG	6588ABB	-----	1
11	PIPE PLUG	P02	15079	1		ROTATION DECAL	2613M	-----	1
12	SCREW	21513-314	-----	2		NAME PLATE	2613DZ	13990	1
13	T-TYPE LOCKWASHER	AL04	17170	2		DRIVE SCREW	BM#04-03	15990	2
14	GUIDE	K74251	15991	1		SUCTION STICKER	6588AG	-----	1
15	VALVE STEM	K74008	15991	1		LUBE DECAL	38816-081	-----	1
16	VALVE SPRING	K68834	-----	1		DISCHARGE STICKER	6588BJ	-----	1
17	HEX NUT	D04	15991	1	OPTIONAL:				
18	T-TYPE LOCKWASHER	AL04	17170	1		COMPANION FLANGES (SUCTION AND DISCHARGE)			
19	DISCHARGE VALVE	K74010A	14000	1		-COMPANION FLG KIT	K33849	-----	1
20 *	O-RING	25152-330	-----	1		BRONZE IMPELLER	K76048	14150	1
21	IMPELLER NUT	K75775	15111	1					

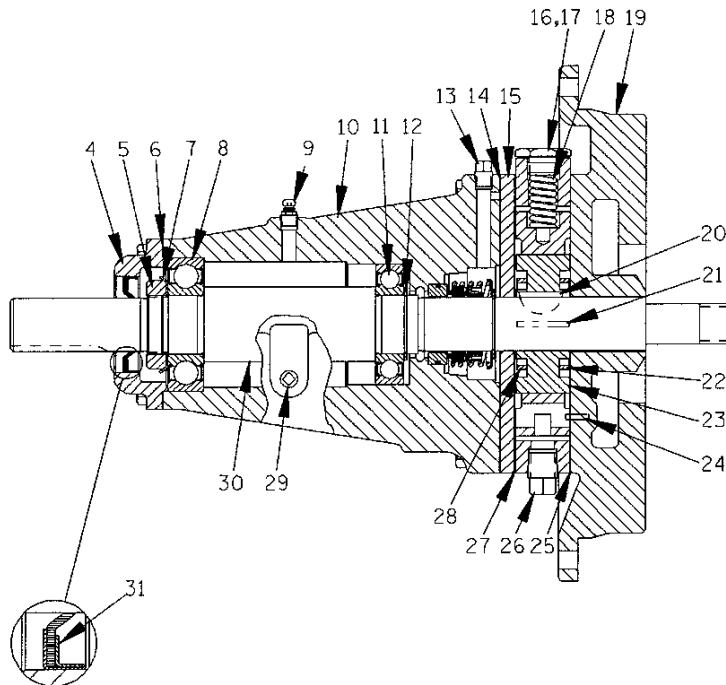
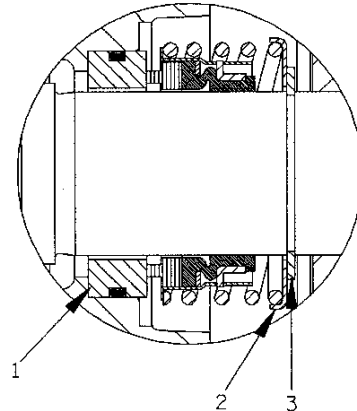
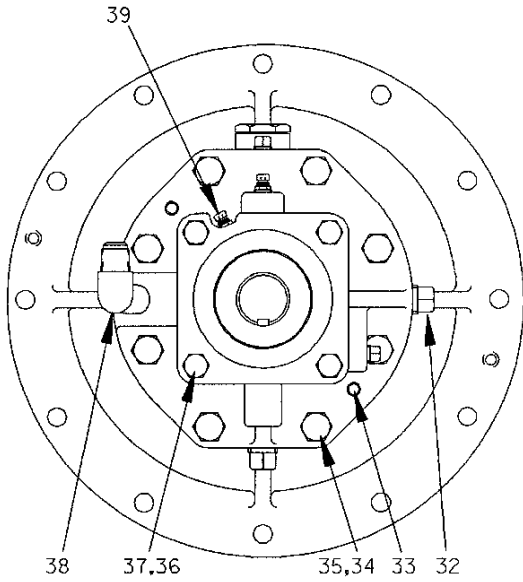
* INDICATES PARTS RECOMMENDED FOR STOCK

Above Serial Numbers Do Not Apply To Pumps Made In Canada.

CANADIAN SERIAL NO. AND UP

† ALL ROTO-PRIME® IMPELLERS ARE TRIMMED AND INCLUDE WEAR RINGS AND GROOVE PINS. WEAR RINGS ARE NOT SOLD SEPARATELY.

SEAL AREA DETAIL



S/N 1050487 Up
PUMP ISSUE 1

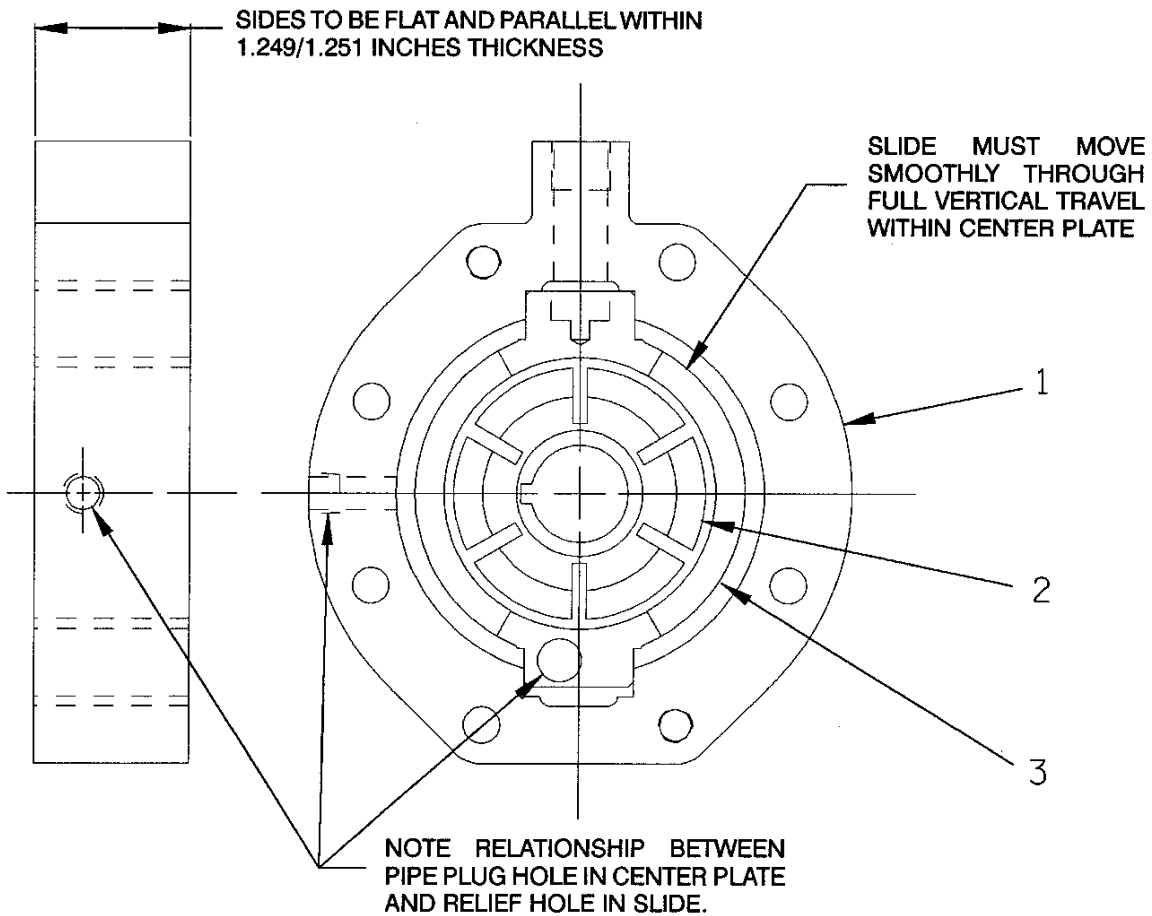
PARTS LIST
44143-087 Bearing Housing Assembly

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1 *	SEAL ASSEMBLY	25271-192	-----	1	26	PIPE PLUG	P06	15079	1
2 *	SPRING CTR WASHER	25273-266	-----	1	27 *	CENTER PLATE GASKET	N14145	18010	1
3	SEAL RETAINING RING	S700	-----	1	28	ROTOR BLADE SPACER	K74031	15030	1
4	BEARING CAP	N14130	10010	1	29	PIPE PLUG	P02	15079	1
5	BEARING LOCK NUT	S301	-----	1	30 *	IMPELLER SHAFT	R09454	15010	1
6 *	BEARING CAP GASKET	K74033	18000	1	31 *	OIL SEAL	25227-230	-----	1
7	TAB WASHER	S302	-----	1	32	PIPE PLUG	P06	15079	1
8 *	OUTBOARD BEARING	23282-008	-----	1	33	DOWEL PIN	21133-073	-----	2
9	AIR VENT	S2162	-----	1	34	HEX HD CAPSCREW	21632-611	-----	8
10	BEARING HOUSING	T02990	11010	1	35	LOCKWASHER	J06	15991	8
11 *	INBOARD BEARING	23257-012	-----	1	36	HEX HD CAPSCREW	B0504	15991	4
12	BEARING RET RING	S248	-----	1	37	LOCKWASHER	J05	15991	4
13	PIPE PLUG	P02	15079	1	38	MALE ELBOW	26351-133	-----	1
14 *	SPACER PLATE GASKET	N14144	18000	1	39	AIR VENT	S2162	-----	1
15	SPACER PLATE	N14129	11010	1					
16	PRESS REG SPRING CAP	K68064	15991	1		OPTIONAL:			
17 *	SPRING CAP GASKET	K86067	-----	1		SST IMPELLER SHAFT	R09454	17080	1
18 *	PRESS REG SPRING	K76301	-----	1		TEFLON SEAL ASSY	25271-743	-----	1
19	BODY COVER	T03532	11010	1		● OIL LUBE BEARING	44143-094	-----	1
20 *	ROTOR WOODRUFF KEY	K61559	15990	1		HOUSING ASSEMBLY			
21 *	ROTOR BLADE	K79300-20	-----	6		-INBOARD BEARING	S310	-----	1
22	ROTOR BLADE SPACER	K74031	15030	1		-OUTBOARD BEARING	23275-008	-----	1
23	GROUP GRIND	42212-013	-----	1		-OIL CUP	26713-051	-----	1
24 *	LOCATING PIN	21154-666	-----	1		GROUP GRIND WITH C.I. ROTOR			
25 †	CENTER PLATE GASKET	N14145	18010	2		-C.I. GROUP GRIND	LK05266	-----	1

* INDICATES PARTS RECOMMENDED FOR STOCK

† 2 GASKETS REQUIRED WHEN ROTOR OR SLIDE IS THICKER THAN CENTER PLATE.

● ALL OTHER COMPONENTS SAME AS STANDARD BEARING HOUSING ASSEMBLY.



PARTS LIST
42212-013 Group Grind

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	CENTER PLATE	NOT AVAILABLE	-----	1
2	ROTOR	NOT AVAILABLE	-----	1
3	SLIDE	NOT AVAILABLE	-----	1

NOTE: THE GROUP GRIND MUST BE REPLACED AS A COMPLETE UNIT. INDIVIDUAL PIECE PARTS ARE NOT SOLD SEPARATELY.

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**For U.S. and International Warranty Information,
Please Visit www.grpumps.com/warranty**

or call:

U.S.: 419-755-1280

International: +1-419-755-1352

**For Canadian Warranty Information,
Please Visit www.grcanada.com/warranty**

or call:

519-631-2870

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