

Use With: OM-03989
MR-03991

PUBLICATION NUMBER PL-04075-02
Pump Issue 2
May 17, 1999
Rev. C 11-7-2023



PUMP MODEL RS2A31-B

**MANUAL
PART 2 of 3**

**PARTS
LIST
WITH
PERFORMANCE CURVE**

THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

www.grpumps.com

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Register your new
Gorman-Rupp pump online at
www.grpumps.com

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: _____

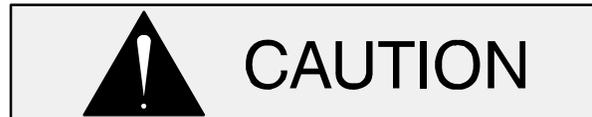
WARRANTY INFORMATION

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

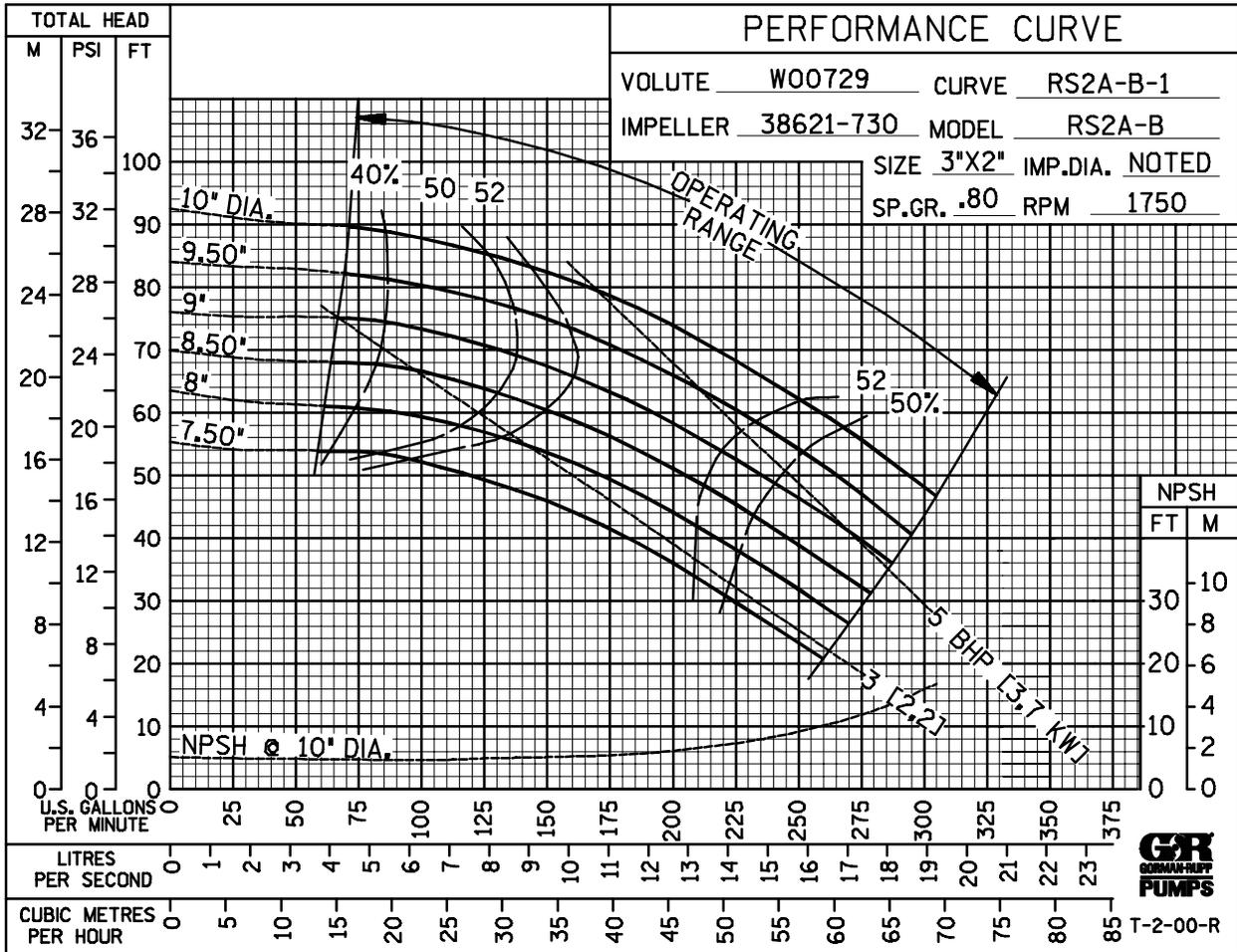
The performance curves on the following pages are based on 70° F (21° C) clear water at sea level, corrected to 0.80 specific gravity, with minimum suction lift. Since pump installations are seldom identical, your performance may be different due to such factors as viscosity, specific gravity, elevation,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

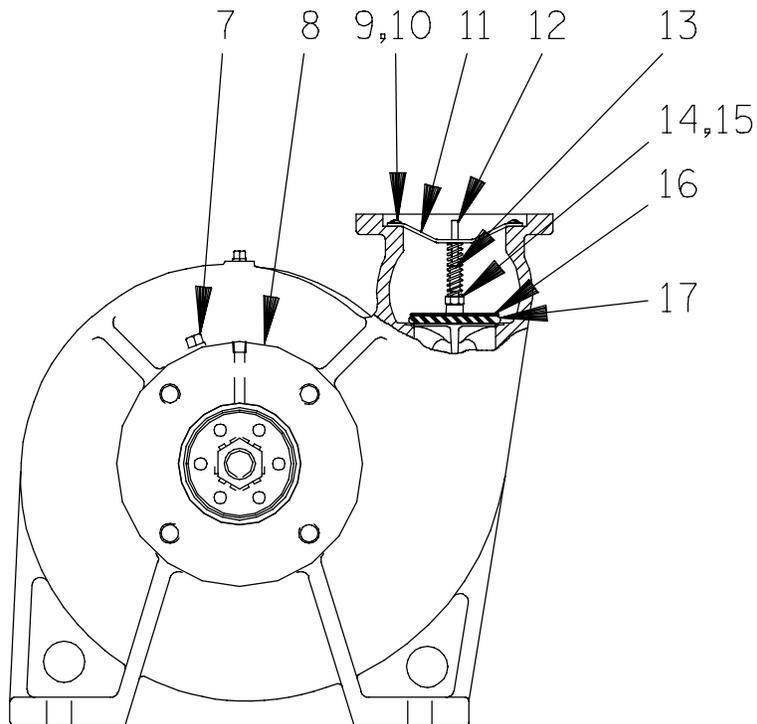
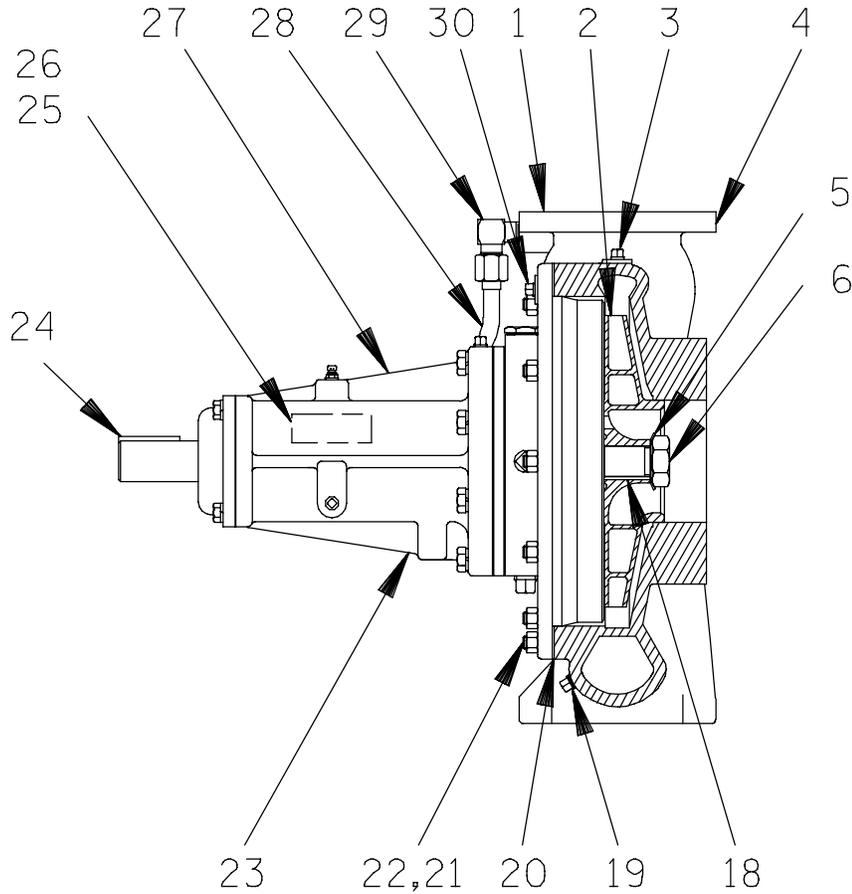


Pump speed and operating condition points must be within the continuous performance range shown on the curve(s).

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Performance Curve – Model RS2A31–B



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RS2A31—B**B****S/N 1182255 Up
PUMP ISSUE 2****PARTS LIST
Pump Model RS2A31—B**

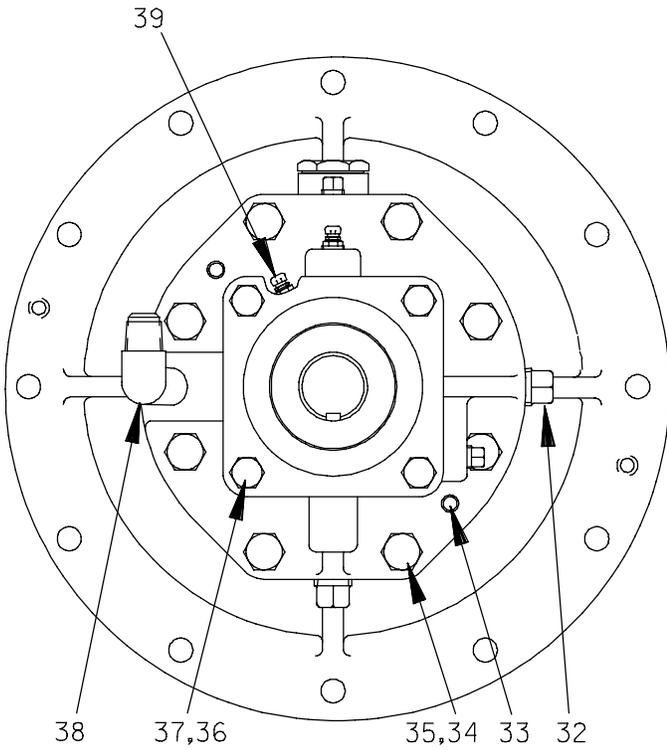
If your pump serial number is followed by an "N", your pump is **NOT** a standard production model. Contact the Gorman-Rupp Company to verify part numbers.

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	HEX NUT	D06	15991	12
2 *	IMPELLER	38621—730	13048	1	23	BRG HOUSING ASSY	44143—087	----	1
3	PIPE PLUG	P02	15079	1	24 *	SHAFT KEY	N0406	15990	1
4	DISCHARGE STICKER	6588BJ	----	1	25	NAME PLATE	2613DZ	13990	1
5	BRG LOCKWASHER	23962—506	----	1	26	DRIVE SCREW	BM#04—03	17000	2
6	IMPELLER NUT	K75775	15111	1	27	LUBE DECAL	38816—081	----	1
7	PIPE PLUG	P02	15079	1	28	PRIMING TUBE ASSY	46335—058	----	1
8	SUCTION STICKER	6588AG	----	1	29	MALE ELBOW	25812—011	----	1
9	SCREW	CM0401-1/2	15991	2	30	PIPE PLUG	P02	15079	1
10	T-TYPE LOCKWASHER	AL04	17170	2					
11	GUIDE	K74251	15991	1		NOT SHOWN:			
12	VALVE STEM	K74008	15991	1		SUCTION FLANGE GSKT	11589GA	19060	1
13	VALVE SPRING	K68834	----	1		* DISCH FLANGE GASKET	N14226	19060	1
14	HEX NUT	D04	15991	1		INSTRUCTION TAG	38817—011	----	1
15	T-TYPE LOCKWASHER	AL04	17170	1		BEARING TAG	6588ABB	----	1
16	DISCHARGE VALVE	38345—630	13047	1		ROTATION DECAL	2613M	----	1
17 *	O-RING	25152—330	----	1					
18 *	IMPELLER KEY	K79328—23	15990	1		OPTIONAL:			
19	PIPE PLUG	P02	15079	1		COMPANION FLANGES (SUCTION AND DISCHARGE)			
20 *	PUMP CASING GASKET	R08108	19060	1		—COMPANION FLG KIT	K33849	----	1
21	STUD	C0606	15991	12		BRONZE IMPELLER	K76048	14150	1

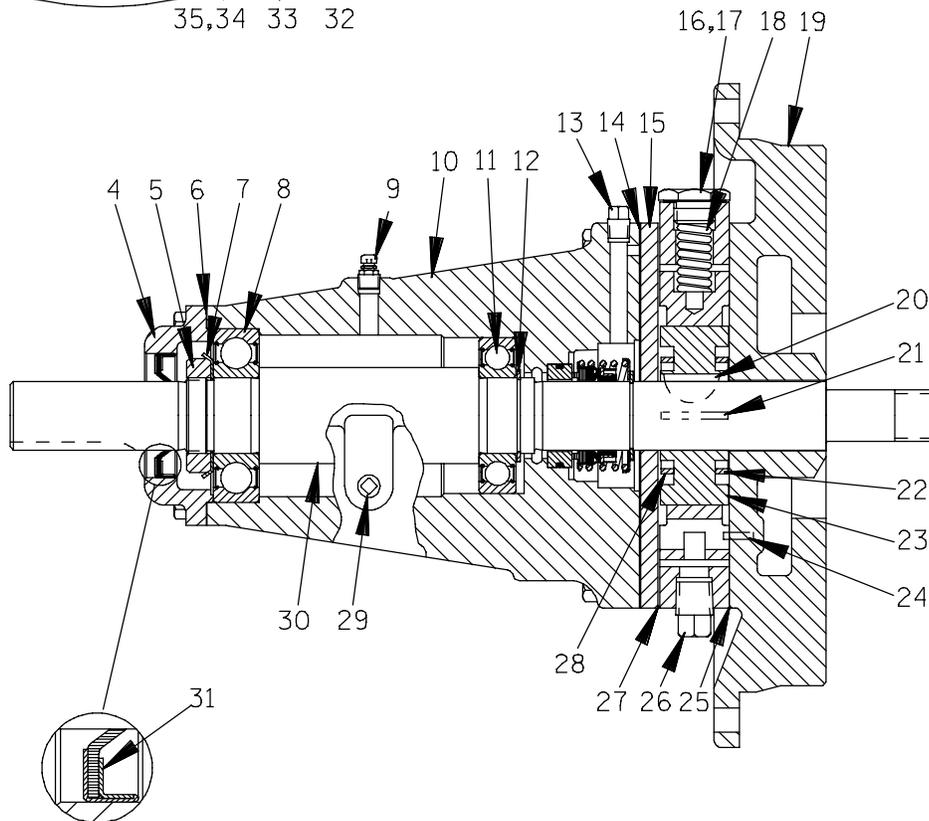
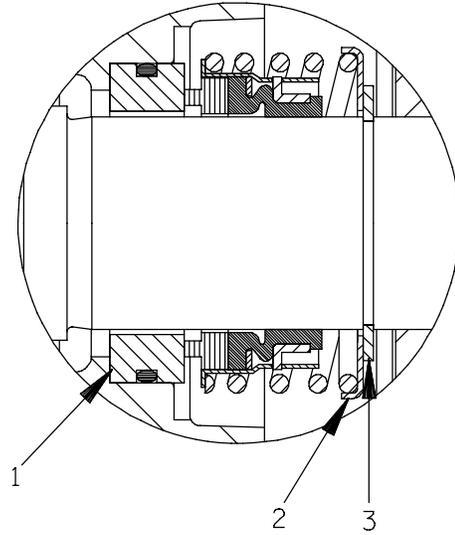
* INDICATES PARTS RECOMMENDED FOR STOCK

† ALL ROTO-PRIME[®] IMPELLERS ARE TRIMMED.

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SEAL AREA DETAIL



S/N 1182255 Up
PUMP ISSUE 2

PARTS LIST
44143—087 Bearing Housing Assembly

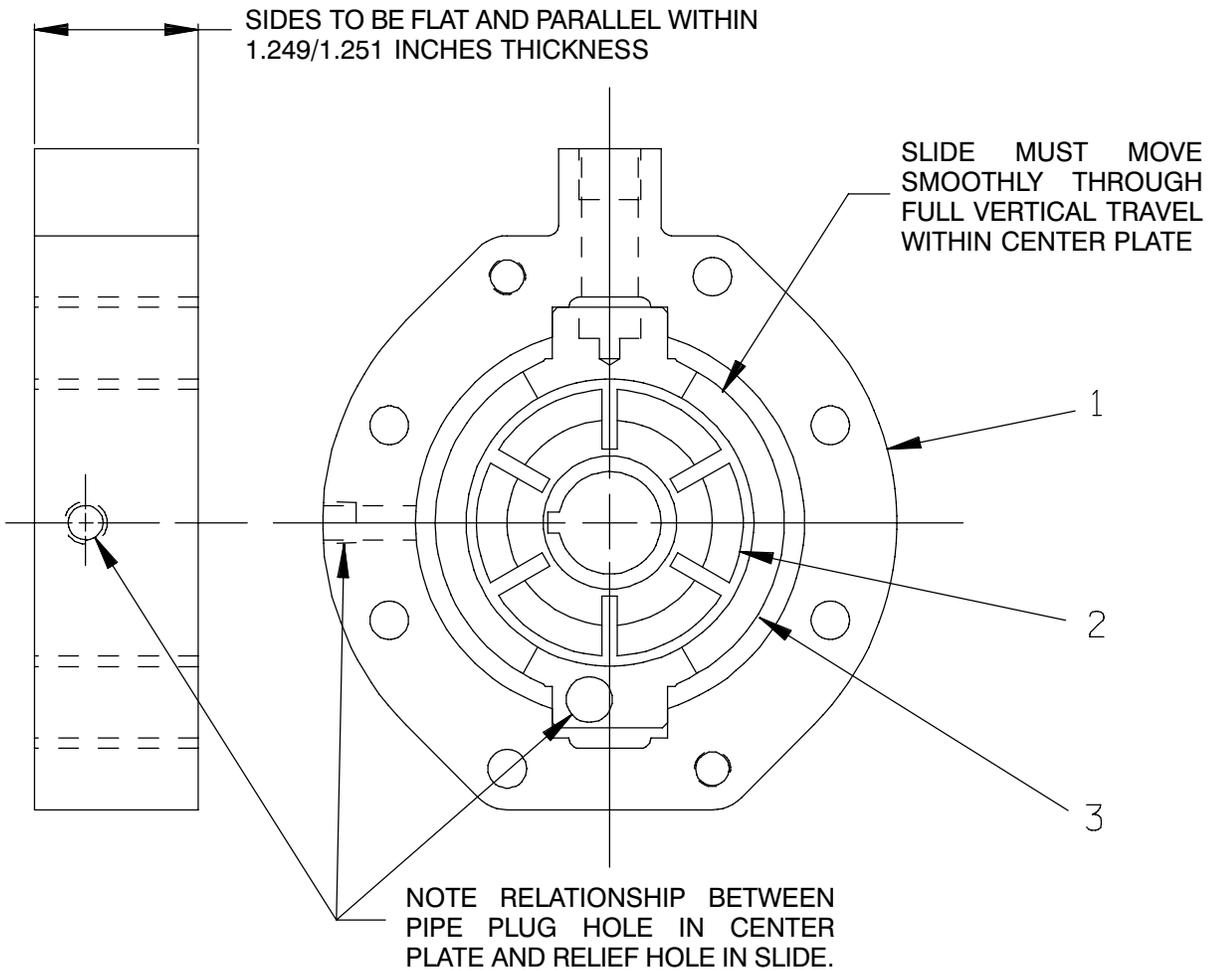
ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1 *	SEAL ASSEMBLY	25271—192	----	1	26	PIPE PLUG	P06	15079	1
2 *	SPRING CTR WASHER	25273—266	----	1	27 *	CENTER PLATE GASKET	N14145	18010	1
3	SEAL RETAINING RING	S700	----	1	28	ROTOR BLADE SPACER	K74031	15030	1
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	B0612	15991	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	25812—011	----	1
14 *	SPACER PLATE GASKET	N14144	18000	1	39	AIR VENT	S2162	----	1
15	SPACER PLATE	N14129	11010	1		OPTIONAL:			
16	PRESS REG SPRING CAP	K68064	15991	1		SST IMPELLER SHAFT	R09454	17080	1
17 *	SPRING CAP GASKET	K86067	----	1		TEFLON SEAL ASSY	25271—743	----	1
18 *	PRESS REG SPRING	K76301	----	1		● OIL LUBE BEARING	44143—094	----	1
19	BODY COVER	T03532	11010	1		HOUSING ASSEMBLY			
20 *	ROTOR WOODRUFF KEY	K61559	15990	1		—INBOARD BEARING	S310	----	1
21 *	ROTOR BLADE	K79300—20	----	6		—OUTBOARD BEARING	23275—008	----	1
22	ROTOR BLADE SPACER	K74031	15030	1		—OIL CUP	26713—051	----	1
23	GROUP GRIND	42212—013	----	1		GROUP GRIND WITH C.I. ROTOR			
24 *	LOCATING PIN	21154—666	----	1		—C.I. GROUP GRIND	LK05266	----	1
25 †	CENTER PLATE GASKET	N14145	18010	2					

* 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.

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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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**THE GORMAN-RUPP COMPANY AND
GORMAN-RUPP OF CANADA LIMITED
12 MONTH LIMITED WARRANTY**

EXTENT AND DURATION OF WARRANTY

Coverage: The Gorman-Rupp Company or Gorman-Rupp of Canada Limited (herein individually referred to as "GR") each individually warrant that its products and parts shall be free from defects in material and workmanship for twelve (12) months from the date of purchase by the original end user.

Exceptions: This Limited Warranty shall not apply to the following products and parts: engines, motors, trade accessories and other products, components or materials not manufactured by GR. With respect to submersible pumps, the pump and motor are an integral unit and are therefore warranted as a unit. However, with respect to the electrical components in submersible pumps, this warranty is valid **only** when electrical controls for the pump have been specified and/or provided by GR. Wear and tear on any product resulting from normal use is not covered by this Limited Warranty.

LIMITATIONS

GR'S SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO ITS PRODUCTS AND PARTS IS THIS LIMITED WARRANTY. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS AND/OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

EXCLUSIVE REMEDY AND DAMAGES

The sole and exclusive remedy for breach of this Limited Warranty by GR, and the entire extent of its liability for such breach or for damages arising and/or resulting from the use of the products and parts covered by this Limited Warranty shall be as follows:

1. **Repair or replacement:** If inspection shows that any GR product or part covered under this Limited Warranty is defective in materials or workmanship, GR shall repair or replace the defective product or part at its option, without charge. You must have properly installed, maintained and used the product or part claimed to be defective in accordance with the maintenance schedule and/or manual which comes with the product. *No allowance will be made for labor, transportation or other charges incurred by you in connection with such repair or replacement.*
2. **To obtain the above remedy:**
 - a) Immediately notify GR at the address below of the claimed defect in materials or workmanship and provide the serial number or date code of the product and/or part and provide a copy of the invoice or bill of sale referencing the product and/or part by no later than the expiration date of the Limited Warranty period.
 - b) GR will advise whether inspection of the product and/or part will be necessary and whether and how repair or replacement will be effected. If inspection by GR is necessary, the product or part must be sent freight prepaid to GR at the address stated below. Return shipment of the repaired product or part will be F.O.B. the address stated below.
3. **Damages:** GR's liability for damages for breach of this Limited Warranty shall not exceed the amount of the purchase price of the product or part in respect to which damages are claimed. **IN NO EVENT SHALL GR BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES FOR BREACH OF THIS LIMITED WARRANTY OTHER THAN AS STATED HEREIN.**

Some states do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, the above may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province.

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