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Pump Issue 1
May 9, 1994



PUMP MODEL RD3A31-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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PERFORMANCE CURVE – 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

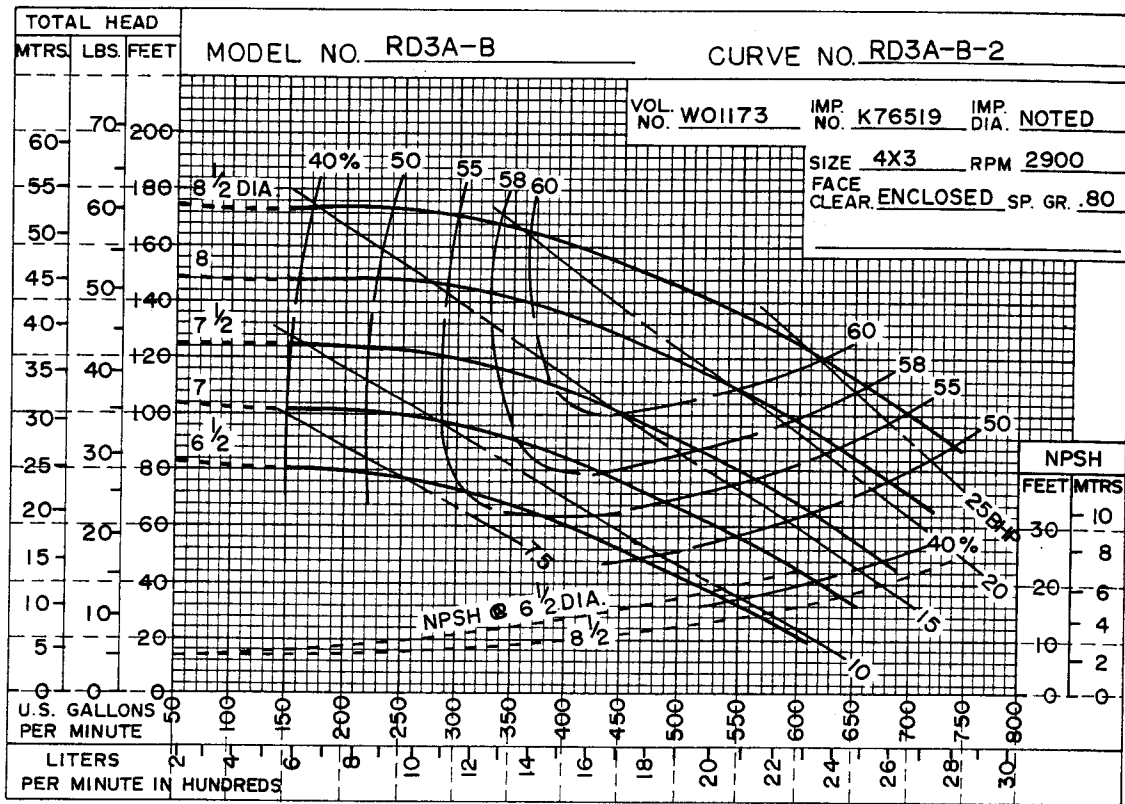
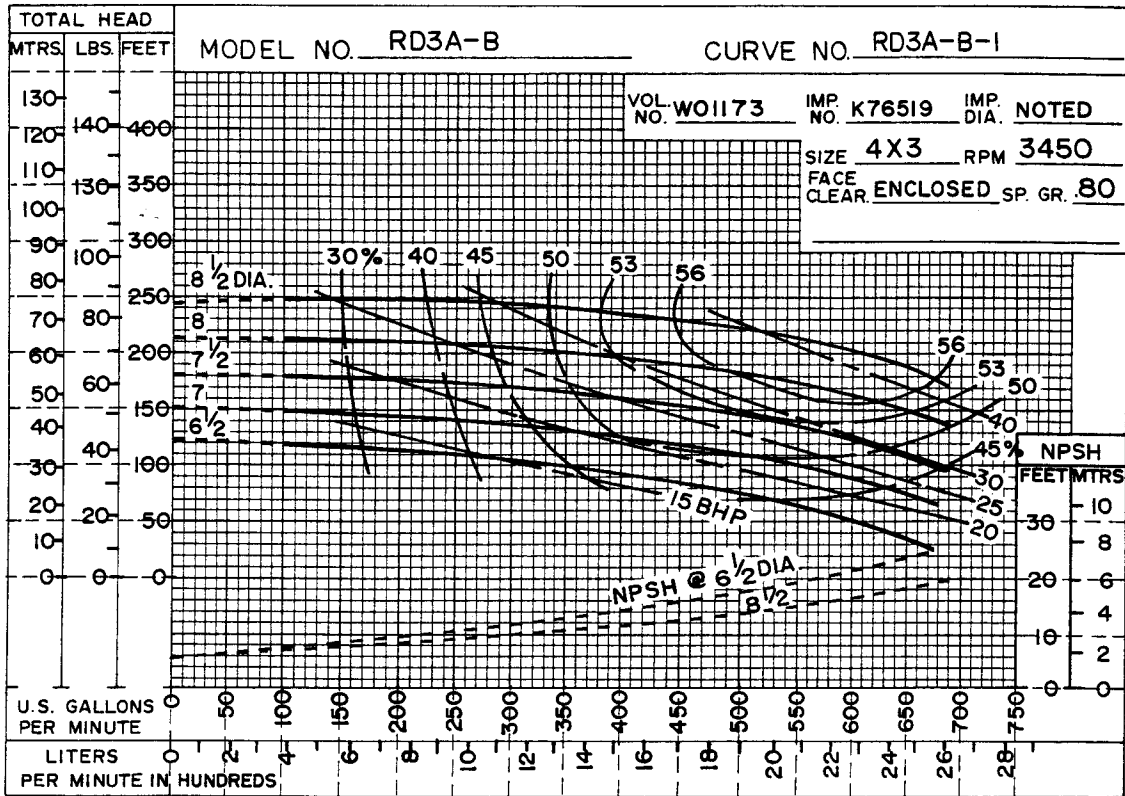
The performance curves on the following page are based on 70° F (21° C) clear water at sea level, corrected to 0.80 specific gravity, with minimum suction lift. Since pump installations are seldom identical, your performance may be different due to such factors as viscosity, specific gravity, elevation,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

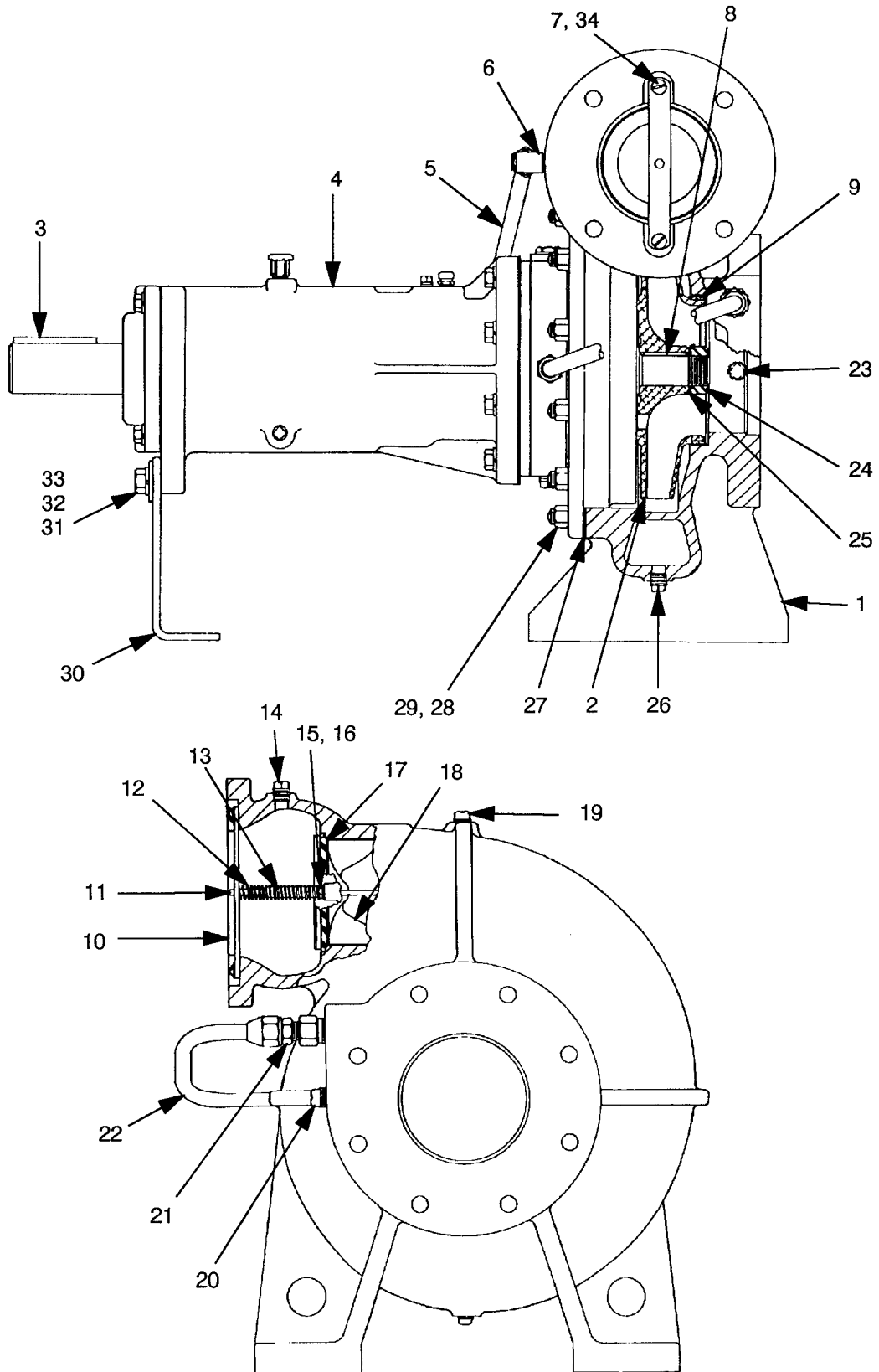


Pump speed and operating condition points must be within the continuous performance range shown on the curve(s).

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Performance Curve - Model RD3A31-B



THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

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**S/N 1056798 Up
PUMP ISSUE 1**

**PARTS LIST
Pump Model RD3A31-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	W01173-02	11010	1	27 *	PUMP CASING GASKET	R12531	20000	1
2 *	IMPELLER	K76519	13040	1	28	STUD	C0807	15991	12
3 *	SHAFT KEY	N0611	15990	1	29	HEX NUT	D08	15991	12
4	BRG HOUSING ASSY	44143-078	-----	1	30	BEARING HSG SUPPORT	R12852-01	15990	1
5	DISCH TUBE ASSY	N19129	-----	1	31	HEX HD CAPSCREW	B0805	15991	2
6	MALE ELBOW	26351-133	-----	1	32	LOCKWASHER	J08	15991	2
7	SCREW	21513-314	-----	2	33	FLAT WASHER	K08	15991	2
8 *	IMPELLER KEY	K79329-23	15990	1	34	T-TYPE LOCKWASHER	AL04	17170	2
9 †	WEAR RING	NOT AVAILABLE		2	NOT SHOWN:				
10	GUIDE	K86489	15991	1		NAME PLATE	2613DZ	13990	1
11	VALVE STEM	K86487	15991	1		DRIVE SCREW	BM#04-03	15990	2
12	DISCH VALVE SPRING	K86490	-----	1	*	DISCH CHK VALVE GSKT	11589GA	18000	1
13	VALVE STEM	K86488	15991	1	*	DISCH FLANGE GASKET	N14147	18000	1
14	PIPE PLUG	P02	15079	1		STRAINER	26841-074	-----	1
15	HEX NUT	D#10S	15991	1		ROTATION DECAL	2613M	-----	1
16	T-TYPE LOCKWASHER	AK#10	15991	1		LUBE DECAL	38816-081	-----	1
17	O-RING	25152-335	-----	1		SUCTION STICKER	6588AG	-----	1
18	DISCHARGE VALVE	N14133B	14000	1		DISCHARGE STICKER	6588BJ	-----	1
19	PIPE PLUG	P02	15079	1		BEARING TAG	6588ABB	-----	1
20	PIPE PLUG	P06	15079	1		INSTRUCTION TAG	38817-011	-----	1
21	CONNECTOR	26351-062	-----	1	OPTIONAL:				
22	SUCT TUBE ASSY	R12859	-----	1		COMPANION FLANGES (SUCT AND DISCHARGE)			
23	PIPE PLUG	P02	15079	1		-COMPANION FLG KIT	K33850	-----	1
24	IMPELLER NUT	K75776	15111	1		BRONZE IMPELLER	T06235-22	14150	1
25	BRG LOCKWASHER	23962-506	-----	1					
26	PIPE PLUG	P02	15079	1					

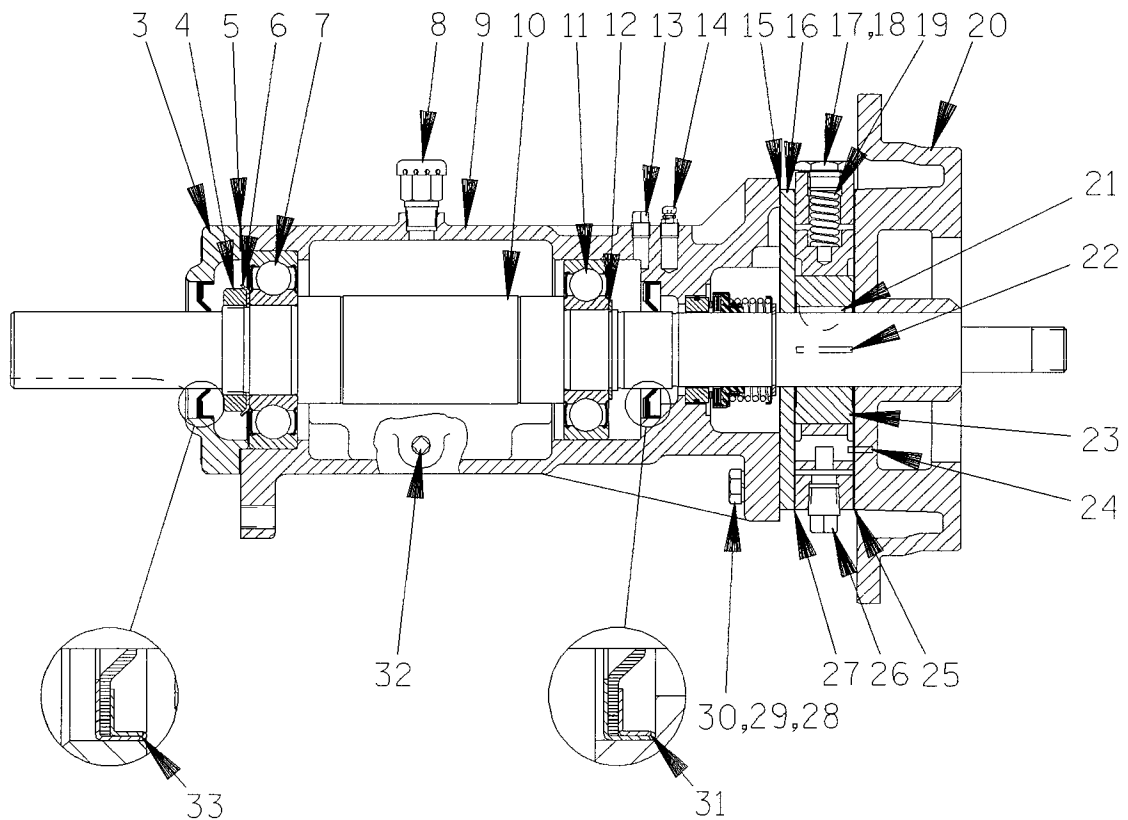
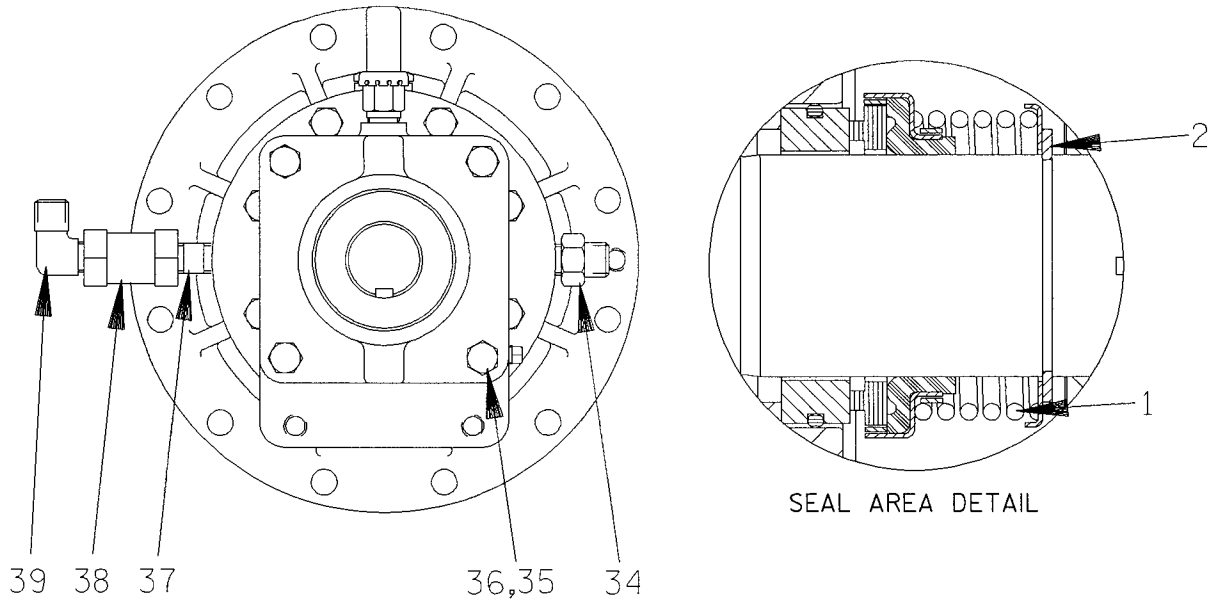
* INDICATES PARTS RECOMMENDED FOR STOCK

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.

● SEE ACCOMPANYING LITERATURE FOR INDIVIDUAL PARTS, MAINTENANCE AND REPAIR.



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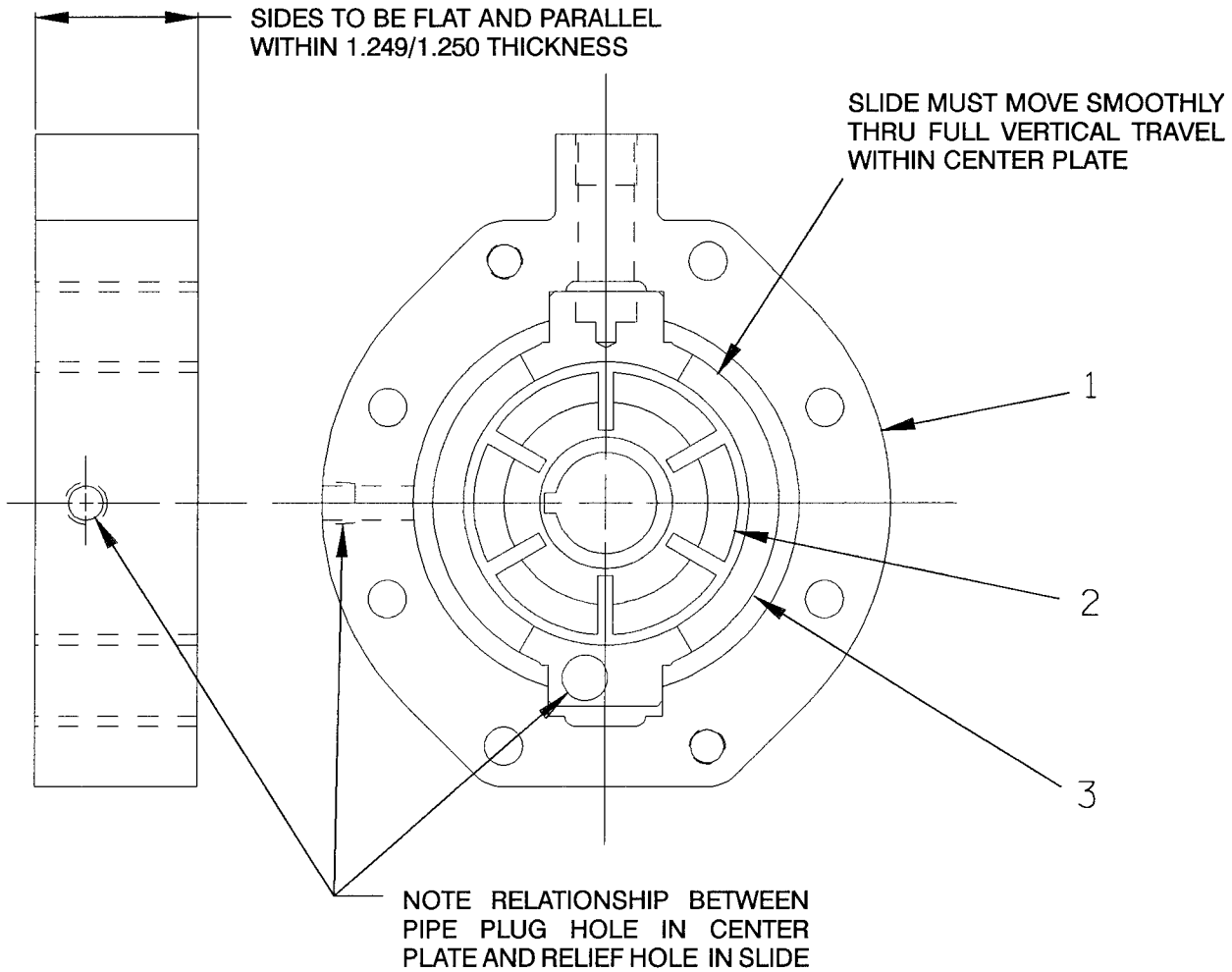
PARTS LIST
44143-078 Bearing Housing Assembly

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1 *	SEAL ASSEMBLY	25271-921	-----	1	26	PIPE PLUG	P06	15079	1
2	SEAL RETAINING RING	24124-243	-----	1	27 *	CENTER PLATE GASKET	N14145	18010	1
3	BEARING CAP	R12770-02	10010	1	28	HEX HD CAPSCREW	21632-611	-----	8
4	BEARING LOCK NUT	23962-011	-----	1	29	LOCKWASHER	J06	15991	8
5 *	BEARING CAP GASKET	N18938-01	18000	1	30	DOWEL PIN	21133-073	-----	2
6	TAB WASHER	23962-511	-----	1	31 *	OIL SEAL	25227-240	-----	1
7 *	OUTBOARD BEARING	23282-011	-----	1	32	PIPE PLUG	P02	15079	1
8	AIR VENT	S1703	-----	1	33 *	OIL SEAL	25227-240	-----	1
9	BEARING HOUSING	W01172-03	11010	1	34	CONNECTOR	26351-062	-----	1
10 *	IMPELLER SHAFT	T08467-02	15010	1	35	HEX HD CAPSCREW	21632-597	-----	4
11 *	BALL BEARING	23282-010	-----	1	36	LOCKWASHER	J06	15991	4
12	BEARING RET RING	24124-245	-----	1	37	PIPE NIPPLE	T0606	15079	1
13	PIPE PLUG	P02	15079	1	38	CHECK VALVE	26641-082	-----	1
14	AIR VENT	S2162	-----	1	39	MALE ELBOW	26351-133	-----	1
15 *	SPACER PLATE GASKET	N14144	18000	1	OPTIONAL:				
16	SPACER PLATE	N14129-02	11010	1		AUTO AIR RELEASE	GRP52-03A	-----	1
17	PRESS REG SPRING CAP	K68064	15991	1		SST IMPELLER SHAFT	T08467-02	17080	1
18 *	SPRING CAP GASKET	K86067	-----	1	●	OIL LUBE BEARING			
19 *	PRESS REG SPRING	K76301	-----	1		HOUSING ASSEMBLY	44143-097	-----	1
20	BODY COVER	T07826-04	11010	1		-INBOARD BEARING	S1088	-----	1
21 *	ROTOR WOODRUFF KEY	K61559	15990	1		-OUTBOARD BEARING	S1077	-----	1
22 *	ROTOR BLADE	K79300-22	-----	6		-OIL CUP	26713-051	-----	1
23	GROUP GRIND	42212-014	-----	1		GROUP GRIND WITH			
24 *	LOCATING PIN	21154-666	-----	1		C.I. ROTOR	LK05403	-----	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.



PARTS LIST
42212-014 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**