Use With: OM–03989
MR–03991

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GORMAN-RUPP PUMPS

PUMP MODEL RD3A31–BAR

MANUAL PART 2 of 3

PARTS LIST
WITH PERFORMANCE CURVE

THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO
www.grpumps.com
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.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 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

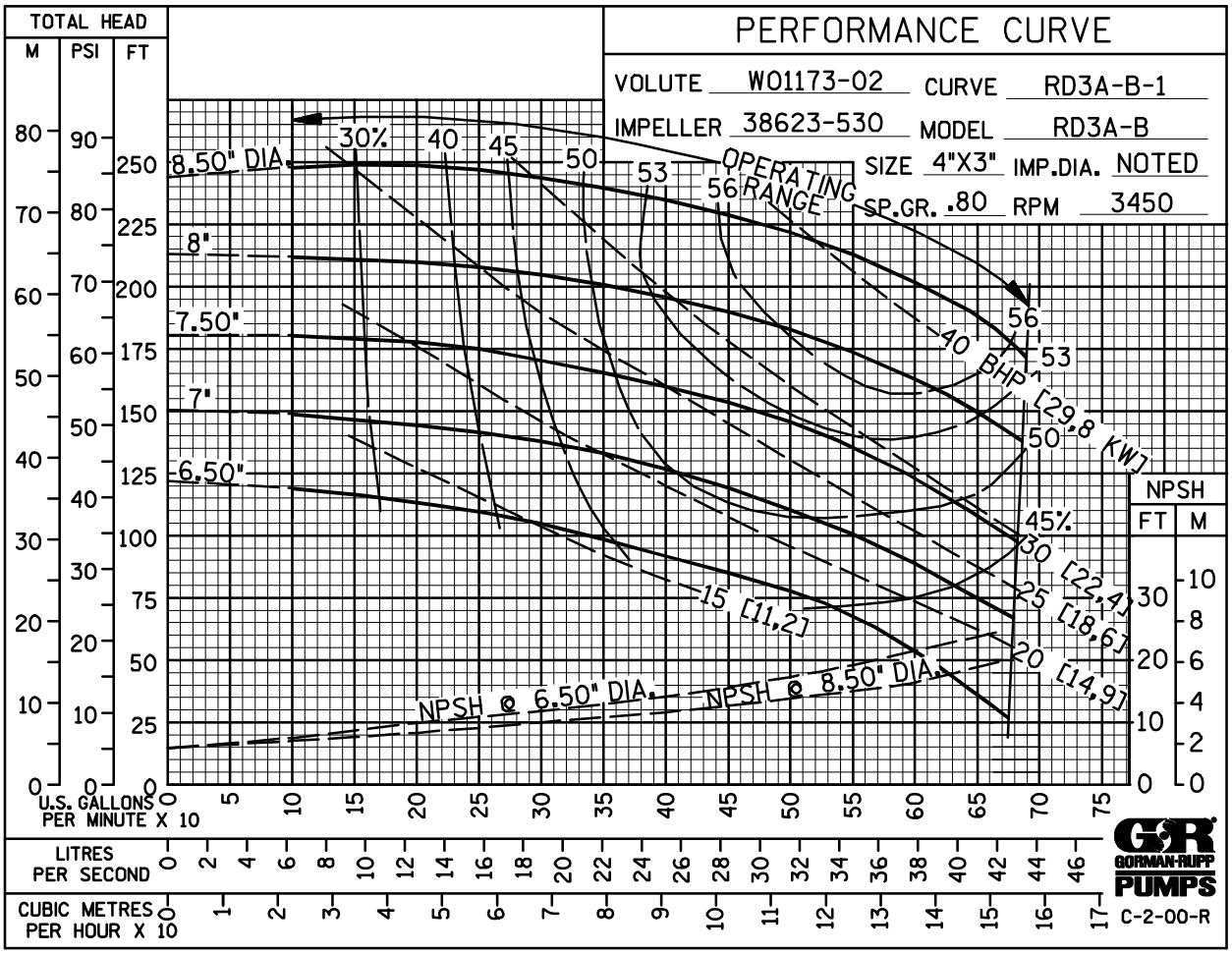
The pump warranty is provided as part of Gorman-Rupp's support program for customers who operate and maintain their equipment as described in this manual and other accompanying literature. Please note that should the equipment be abused or modified to change its performance beyond the original factory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

PERFORMANCE CURVE

The performance curve on the following page is 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).



Performance Curve — Model RD3A31–BAR

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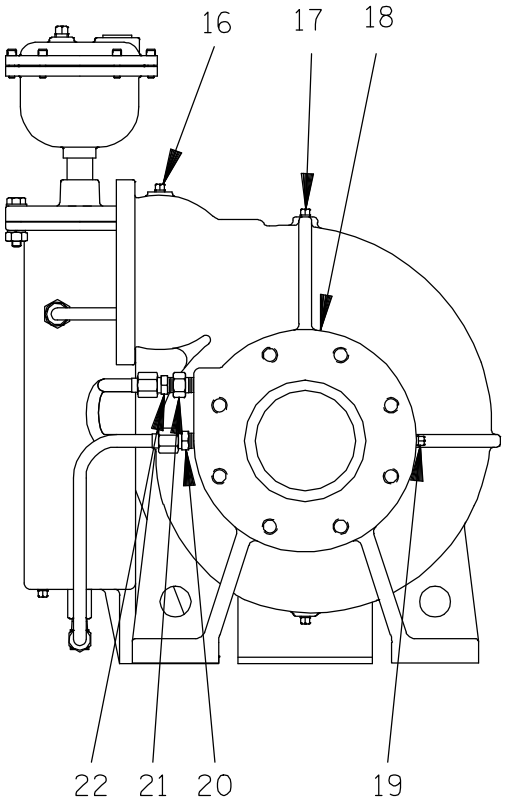

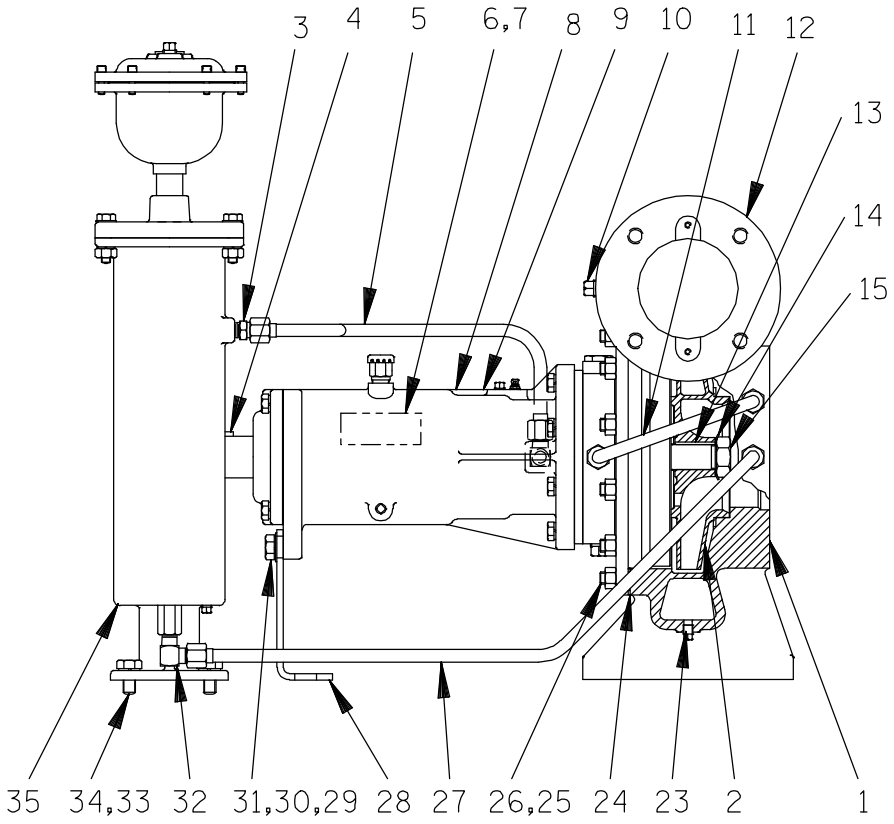

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PARTS LIST
Pump Model RD3A31−BAR

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
1		PUMP CASING	W01173−02	11010	1
2	✳	IMPELLER	38623−530	13048	1
3		CONNECTOR	−−−	−−−	1
4	✳	SHAFT KEY	N0611	15990	1
5		DISCH TUBE ASSY	46335−091	−−−	1
6		NAME PLATE	2613DZ	13990	1
7		DRIVE SCREW	BM#04−03	17000	2
8		LUBE DECAL	38816−081	−−−	1
9		BRG HOUSING ASSY	44143−108	−−−	1
10		PIPE PLUG	P06	15079	1
11		SUCT TUBE ASSY	46335−076	−−−	1
12		DISCHARGE STICKER	6588BJ	−−−	1
13	✳	IMPELLER KEY	K79329−23	15990	1
14		LOCKWASHER	23962−506	−−−	1
15		IMPELLER NUT	K75776	15111	1
16		PIPE PLUG	P02	15079	1
17		PIPE PLUG	P02	15079	1
18		SUCTION STICKER	6588AG	−−−	1
19		PIPE PLUG	P02	15079	1
20		CONNECTOR	25812−214	−−−	1
21		STRAINER	26841−094	−−−	1
22		CONNECTOR	25812−214	−−−	1
23		PIPE PLUG	P02	15079	1
24	✳	PUMP CASING GASKET	R12531	20000	1
25		STUD	C0807	15991	12
26		HEX NUT	D08	15991	12
27		RETURN TUBE ASSY	46335−086	−−−	1
28		BEARING HSG SUPPORT	R12852−01	15990	1
29		HEX HD CAPSCREW	B0805	15991	2
30		LOCKWASHER	J08	15991	2
31		FLAT WASHER	K08	15991	2
32		MALE ELBOW	25812−011	−−−	1
33		HEX HD CAPSCREW	B0805	15991	2
34		LOCKWASHER	J08	15991	2
35	●	AIR RELEASE VALVE	GRP33−06A	−−−	1
NOT SHOWN:					
	✳	DISCH CHK VALVE GSKT	11589GA	19060	1
	✳	DISCH FLANGE GASKET	N14147	19060	1
		INSTRUCTION TAG	38817−011	−−−	1
		ROTATION DECAL	2613M	−−−	1
OPTIONAL:					
		COMPANION FLANGES (SUCT AND DISCHARGE)			
		−COMPANION FLG KIT	K33850	−−−	1
		STEEL TUBING KIT	48263−511	−−−	1

✳ INDICATES PARTS RECOMMENDED FOR STOCK

† ALL ROTO-PRIME™ IMPELLERS ARE TRIMMED.

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

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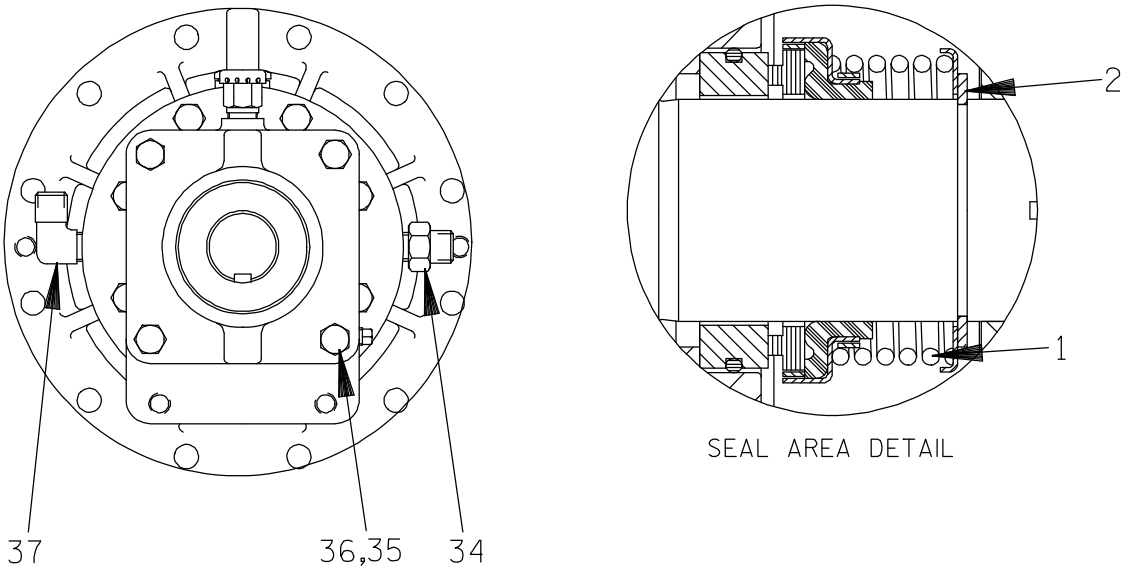

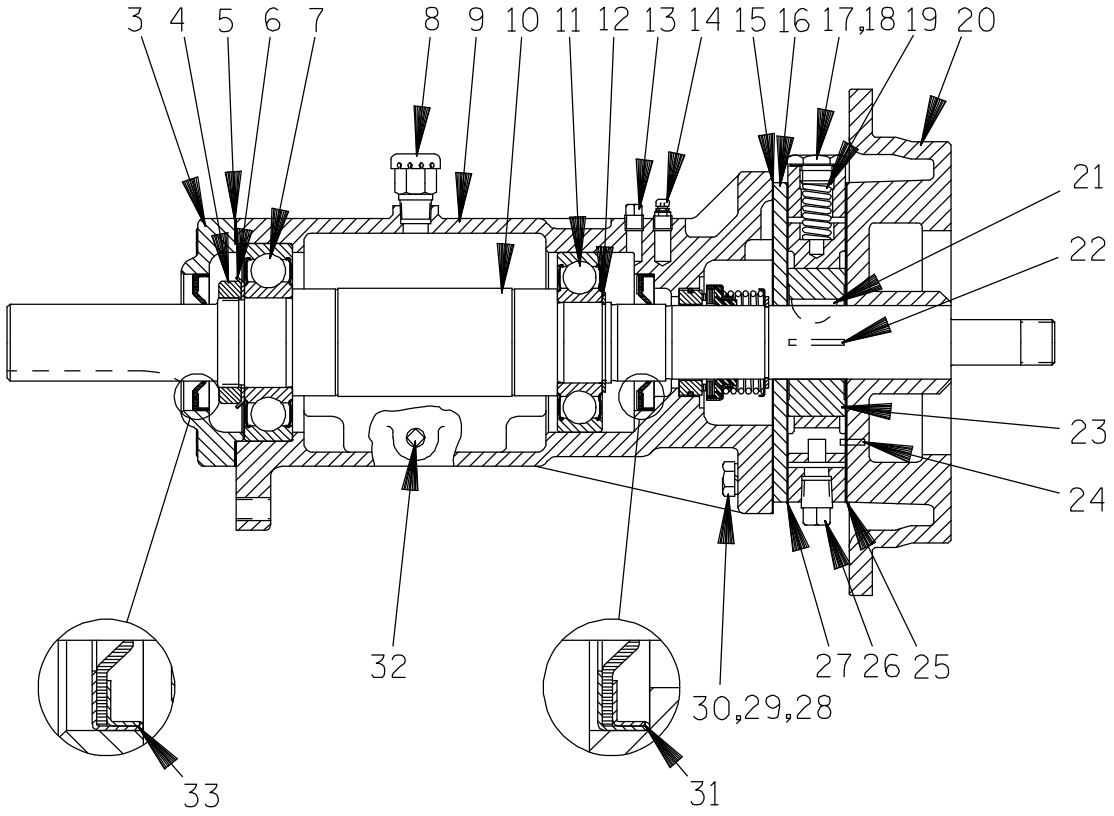

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PARTS LIST
44143−108 Bearing Housing Assembly

ITEM NO.		PART NAME	PART NUMBER	MAT'L CODE	QTY
1	✳	SEAL ASSEMBLY	25271−921	−−−	1
2		SEAL RETAINING RING	24124−243	−−−	1
3		BEARING CAP	R12770−02	10010	1
4		BEARING LOCK NUT	23962−011	−−−	1
5	✳	BEARING CAP GASKET	N18938−01	19060	1
6		TAB WASHER	23962−511	−−−	1
7	✳	OUTBOARD BEARING	23282−011	−−−	1
8		AIR VENT	S1703	−−−	1
9		BEARING HOUSING	W01172−03	11010	1
10	✳	IMPELLER SHAFT	T08467−02	15010	1
11	✳	BALL BEARING	23282−010	−−−	1
12		BEARING RET RING	24124−245	−−−	1
13		PIPE PLUG	P02	15079	1
14		AIR VENT	S2162	−−−	1
15	✳	SPACER PLATE GASKET	N14144	19060	1
16		SPACER PLATE	N14129−02	11010	1
17		PRESS REG SPRING CAP	K68064	15991	1
18	✳	SPRING CAP GASKET	K86067	−−−	1
19	✳	PRESS REG SPRING	K76301	−−−	1
20		BODY COVER	T07826−04	11010	1
21	✳	ROTOR WOODRUFF KEY	K61559	15990	1
22	✳	ROTOR BLADE	K79300−22	−−−	6
23		GROUP GRIND	42212−014	−−−	1
24	✳	LOCATING PIN	21154−666	−−−	1
25	†	CENTER PLATE GASKET	N14145	19210	2
26		PIPE PLUG	P06	15079	1
27	✳	CENTER PLATE GASKET	N14145	19210	1
28		HEX HD CAPSCREW	B0612	15991	8
29		LOCKWASHER	J06	15991	8
30		DOWEL PIN	21133−073	−−−	2
31	✳	OIL SEAL	25227−240	−−−	1
32		PIPE PLUG	P02	15079	1
33	✳	OIL SEAL	25227−240	−−−	1
34		CONNECTOR	26351−062	−−−	1
35		HEX HD CAPSCREW	B0605	15991	4
36		LOCKWASHER	J06	15991	4
37		MALE ELBOW	26351−133	−−−	1
OPTIONAL:					
		SST IMPELLER SHAFT	T08467−02	17080	1
		TEFLON SEAL ASSY	25271−761	−−−	1
	●	OIL LUBE BEARING HOUSING ASSEMBLY			
			44143−111	−−−	1
		−−INBOARD BEARING	S1088	−−−	1
		−−OUTBOARD BEARING	S1077	−−−	1
		−−OIL CUP	26713−051	−−−	1
		GROUP GRIND WITH C.I. ROTOR			
		−C.I. GROUP GRIND	LK05403	−−−	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.

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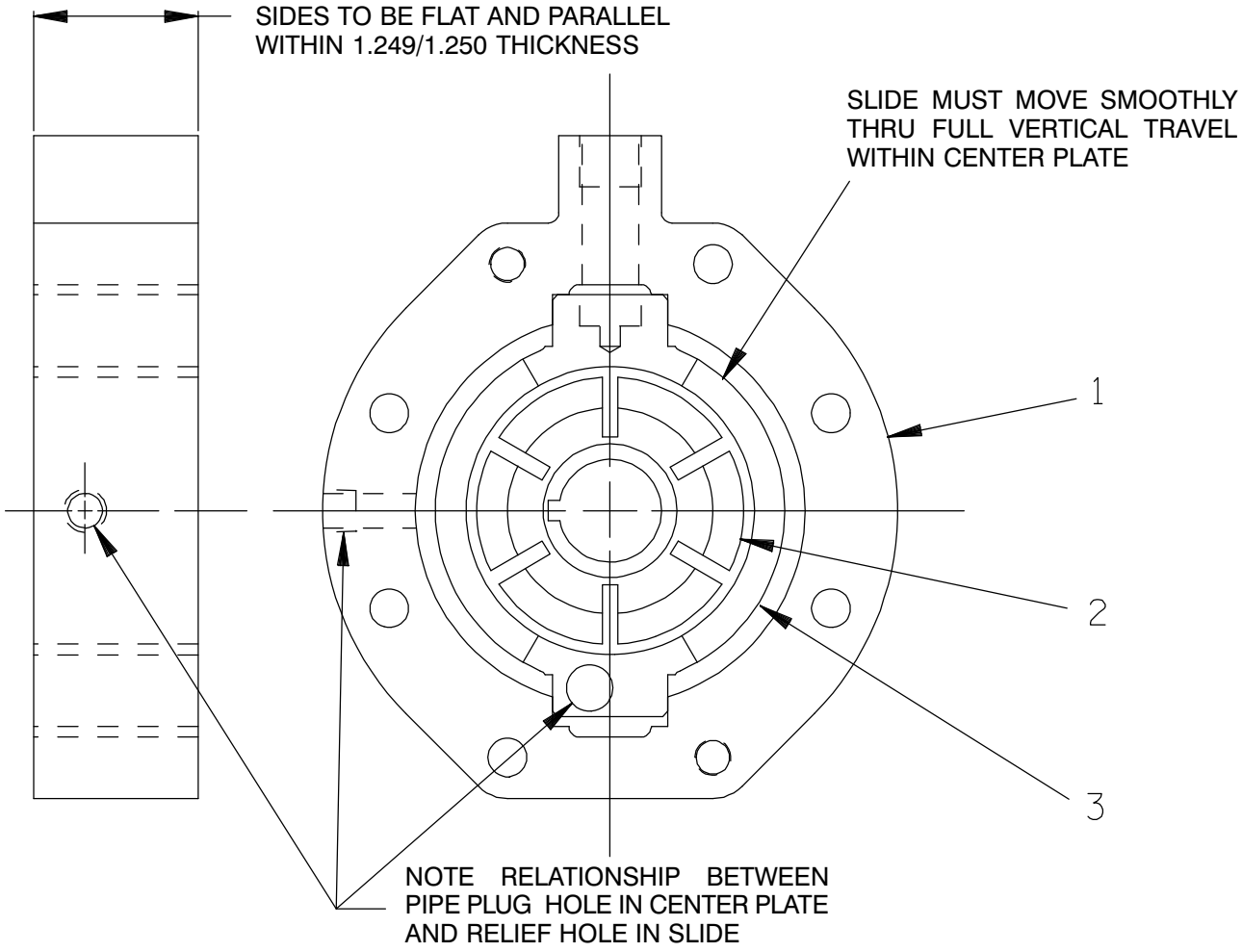

PARTS LIST
42212—014 Group Grind

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

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