Use With: OM--04151 MR--04280



# PUMP MODELS

S2F1-E1 115/1, S2F1-E1 230/1

S2F1-E1 200/3, S2F1-E1 230/3

S2F1-E1 460/3, S2F1-E1 575/3

MANUAL PART 2 of 3

PARTS
LIST
WITH
PERFORMANCE CURVE

S SERIES PUMP PL--04241

#### 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 <u>Installation/Operation Manual</u> 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.

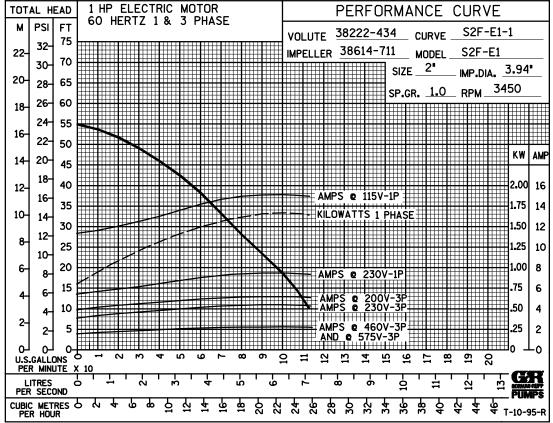
PERFORMANCE CURVES

The performance curve below is based on 70° F (21° C) clear water at sea level. 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).

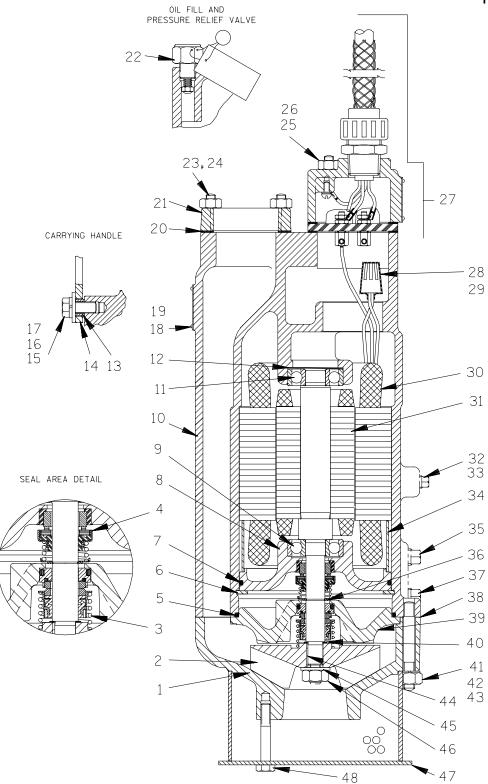


Performance Curve - Model S2F1-E1 115/230/1 And S2F1-E1 200/230/460/575/3

PART LIST MANUAL PAGE A -- 1

S2F1-E1 115/1, S2F1-E1 230/1, S2F1-E1 200/3, S2F1-E1 230/3, S2F1-E1 460/3, S2F1-E1 575/3

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## THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

S2F1-E1 115/1, S2F1-E1 230/1, S2F1-E1 200/3, S2F1-E1 230/3, S2F1-E1 460/3, S2F1-E1 575/3

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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.

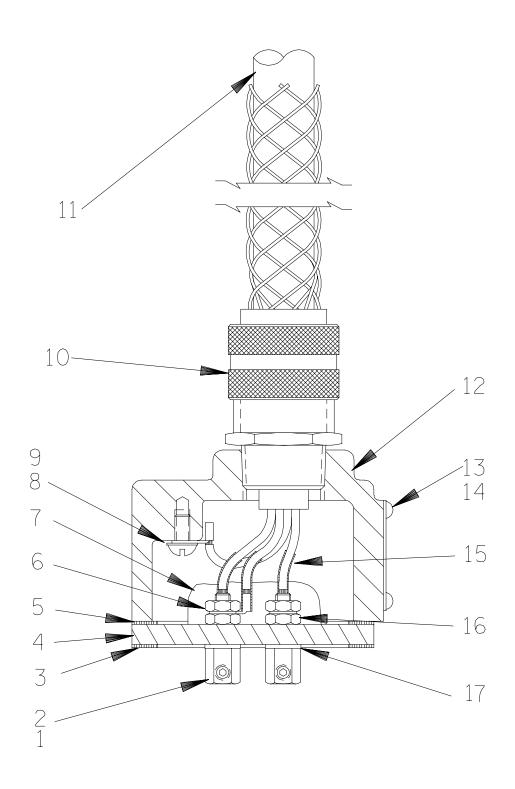
| ITEM<br>NO.     | PART NAME              | PART<br>NUMBER            | MAT′L<br>CODE  | QTY | ITEM<br>NO. | PART NAME                              | PART<br>NUMBER             | MAT'L<br>CODE | QTY    |
|-----------------|------------------------|---------------------------|----------------|-----|-------------|--|----------------------------|---------------|--------|
| 1               | SUCTION CASING         | 38222-434                 | 1101H          | 1   | 38 *        | SUCT CASING GSKT                       | 38674-807                  | 20000         | 1      |
| 2 *             | IMPELLER               | 38614-711                 | 1101H          | 1   | 39          | SEAL PLATE                             | 38272-830                  | 10010         | 1      |
|                 | LOWER SEAL ASSY        | 46512-036                 |                | 1   | 40 *        | IMP ADJ SHIM SET                       | 669                        | 14990         | 1      |
|                 | UPPER SEAL ASSY        | 25271-824                 |                | 1   | 41          | STUD                                   | C0609                      | 17000         | 4      |
|                 | SEAL PLATE O-RING      | 25152-250                 |                | 1   | 42          | LOCK WASHER                            | J06                        | 17000         | 4      |
| 6               | RETAINING RING         | 24121-077                 |                | 1   | 43          | HEX NUT                                | D06                        | 17000         | 4      |
|                 | INTERMEDIATE O-RING    | 25152-248                 |                | 1   | 44 *        | IMPELLER KEY                           | N0202 - 1/2                | 17000         | 1      |
| 8               | INTERMEDIATE BRACKET   |                           | 13040          | 1   | 45          | FLAT WASHER                            | 21161-808                  |               | 1      |
|                 | LOWER BALL BEARING     | S1512                     |                | 1   | 46          | IMPELLER NUT                           | D06                        | 17000         | 1      |
| 10              | MOTOR HOUSING          | 38311-050                 | 13000          | 1   | 47 *        | STRAINER ASSY                          | 46611-013                  | 2415V         | 1      |
|                 | UPPER BALL BEARING     | S1512                     |                | 1   | 48          | NYLOCK CAPSCREW                        | BT0506                     | 15991         | 4      |
| 12              | BRG SPRING WASHER      | S1554                     |                | 1   |             |  |                            |               |        |
|                 | BAIL BUSHING           | 10194                     | 15071          | 2   | NOT SI      | HOWN:                                  |                            |               |        |
| 14              | HOIST BAIL             | 10185A                    | 15071<br>1502V | 1   |             | CABLE TIE                              | 27111 – 212                |               | 1      |
| 15              | HEX HD CAPSCREW        | B0604                     | 15991          | 2   |             | SUB. PUMP OIL                          | 9568                       |               | 1      |
| 16              | FLAT WASHER            | K06                       | 15991          | 2   |             | DRIVE SCREW                            | BM#04-03                   | 17000         | 4      |
| 17              | LOCK WASHER            | J06                       | 15991          | 2   |             | MOTOR WIRING PLATE                     |                            |               | _      |
| 18              | NAME PLATE             | 38814-055                 | 17000          | 1   |             | -115/230V 1P                           | 38816-184                  | 17000         | 1      |
| 19              | DRIVE SCREW            | BM#04-03                  | 17000          | 4   |             | – 200/230/460V 3P<br>MOTOR VOLTAGE TAG | 10436                      | 17000         | 1      |
| 20 *            | DISCH FLANGE GSKT      | 10195G                    | 20000          | 1   |             | -115V 1P                               | 38816-185                  |               | 1      |
| 21              | DISCHARGE FLANGE       | 10195                     | 13040          | 1   |             | - 230V 1P                              | 38816-186                  |               | 1      |
| 22 <del>*</del> | RELIEF VALVE ASSY      | 46431-608                 |                | 1   |             | -200V 3P                               | 38816-200                  |               | 1      |
| 23              | STUD                   | C0506                     | 15991          | 4   |             | -230V 3P                               | 38816-094                  |               | 1      |
| 24              | HEX NUT                | D05                       | 15991          | 4   |             | -460V 3P                               | 38816-093                  |               | 1      |
| 25              | STUD                   | C0511                     | 15991          | 4   |             | -575V 3P                               | 38816-128                  |               | 1      |
| 26              | HEX NUT                | D05                       | 15991          | 4   |             | CONTROL BOX                            | 000.0 .20                  |               | •      |
| 27              | TERM HSG/CABLE ASSY    | 47367-051                 |                | 1   |             | –115V 1P                               | 27511 – 101                |               | 1      |
| 28              | CONNECTOR              |                           |                |     |             | -230V 1P                               | 27511 – 102                |               | 1      |
|                 | –115V 1P               | NOT REQUIR                | RED            |     |             | -200V 3P                               | 27515-561                  |               | 1      |
|                 | –230V 1P               | 27284-021                 |                | 2   |             | -230V 3P                               | 27515-561                  |               | 1      |
|                 | -200V 3P               | NOT REQUIR                |                |     |             | -460V 3P                               | 27515-561                  |               | 1      |
|                 | -230V 3P               | 27284 – 021               |                | 1   |             | –575V 3P                               | 27515-565                  |               | 1      |
|                 | -460V 3P               | 27284 – 021               |                | 3   |             | HEATER PACK                            |                            |               |        |
| V               | -575V 3P               | NOT REQUIR                | ED             |     |             | – 115V 1P                              | NOT REQUI                  |               |        |
| 29 🛧            | HEAT-SHRINK TUBE       | NOT DECLUE                | יבט            |     |             | -230V 1P                               | NOT REQUI                  |               | _      |
|                 | –115V 1P               | NOT REQUIR                |                | 2   |             | -200V 3P                               | 27521 – 201                |               | 1      |
|                 | – 230V 1P<br>– 200V 3P | 31411 – 340<br>NOT REQUIR |                | 2   |             | -230V 3P                               | 27521 - 201                |               | 1      |
|                 | -230V 3P               | 31411-340                 | 19450          | 1   |             | – 460V 3P<br>– 575V 3P                 | 27521 – 219<br>27521 – 222 |               | 1<br>1 |
|                 | -460V 3P               |                           | 19450          | 3   |             | -575V 3P                               | 2/321-222                  |               | '      |
|                 | -575V 3P               | NOT REQUIR                |                | 3   | OPTIO       | NIAI ·                                 |                            |               |        |
| 30              | STATOR                 |                           |                |     | I .         | REPAIR GASKET SET                      | 11000T                     |               | 1      |
| 30              | -115V 1P AND 230V 1P   | 47113-841                 |                | 1   | 1           | STAGING ADAPTOR KIT                    | 48272-002                  |               | 1      |
|                 | -200V 3P               | 47113-839                 |                | 1   |             | STAGING ADAI TOK KIT                   | 40272-002                  |               | '      |
|                 | -230V 3P AND 460V 3P   | 47113-825                 |                | 1   |             | LIQUID LEVEL DEVICES:                  |                            |               |        |
|                 | -575V 3P               | 47113-826                 |                | 1   |             | - DIAPHRAGM TYPE                       | GRP48-03 o                 | r GRP48-0     | 6 1    |
| 31 <del>*</del> | ROTOR W/SHAFT ASSY     | 47112-814                 |                | 1   |             | -FLOAT TYPE                            | 27471 – 180                |               | 1      |
| 32              | ALLEN HD SETSCREW      | GA0501 – 1/4              | 15990          | 1   |             | 120V LIQUID LEVEL CON                  |                            |               | •      |
| 33              | PIPE PLUG              | P02                       | 17000          | 1   |             | -115V 1P                               | 27521 – 323                |               | 1      |
| 34              | MOTOR BUSHING          | 31173-018                 | 23010          | 1   |             | -230V 1P                               | 47631-070                  |               | 1      |
| 35              | PIPE PLUG              | P04                       | 17000          | 1   |             | -200V 3P                               | 27521 – 322                |               | 1      |
| 36              | SEAL SNAP RING         | S668                      |                | 1   |             | -230/460V 3P                           | 47631 – 136                |               | 1      |
| 37              | SEAL CVTY DRAIN PLUG   | P04                       | 17000          | 1   | I           | –575V 3P                               | 47631-072                  |               | 1      |

<sup>\*</sup> INDICATES PARTS RECOMMENDED FOR STOCK

#### THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

S2F1-E1 115/1, S2F1-E1 230/1, S2F1-E1 200/3, S2F1-E1 230/3, S2F1-E1 460/3, S2F1-E1 575/3

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## THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

S2F1-E1 115/1, S2F1-E1 230/1, S2F1-E1 200/3, S2F1-E1 230/3, S2F1-E1 460/3, S2F1-E1 575/3 S/N 1225729 Up

PUMP ISSUE 2

## **Terminal Housing**

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<br>NO. |     | PART NAME                 | PART<br>NUMBER | MAT'L<br>CODE | QTY |
|-------------|-----|---------------------------|----------------|---------------|-----|
| 1           |     | TERMINAL                  | 11181          | 14100         | 3   |
| 2           |     | ALLEN HD SETSCREW         | GA#10-01S      | 15991         | 3   |
| 3           | *   | LOWER FLANGE GASKET       | 10195G         | 20000         | 1   |
| 4           |     | TERMINAL PLATE            | 38713-007      | 23010         | 1   |
| 5           | *   | UPPER FLANGE GASKET       | 10195G         | 20000         | 1   |
| 6           |     | HEX NUT                   | D#10           | 14990         | 3   |
| 7           |     | 1 OZ RTV SEALANT          | 18771 – 106    |               | 1   |
| 8           |     | ROUND HEAD MACUHINE SCREW | X#10-01 1/2    | 14990         | 1   |
| 9           |     | T TYPE LOCK WASHER        | AK#10          | 15991         | 1   |
| 10          |     | CABLE GRIP                | S1553          |               | 1   |
| 11          | *   | CABLE ASSEMBLY            | 10551A         |               | 1   |
| 12          |     | TERMINAL HOUSING          | 38381-224      | 13040         | 1   |
| 13          |     | DRIVE SCREW               | BM#04-03       | 17000         | 4   |
| 14          |     | INFORMATION PLATE         | 38816-047      | 17990         | 1   |
| 15          | *   | HEAT-SHRINK TUBE          | 31411-203      | 19530         | 3   |
| 16          |     | HEX NUT                   | D#10           | 14990         | 3   |
| 17          | *   | DYNA-SEAL WASHER          | S1590          |               | 3   |
| OPTIONA     | AL: | LIEAT CURING TERMINAL GIT | 40245 000      |               | 1   |
|             |     | HEAT SHRINK TERMINAL KIT  | 48315 – 008    |               | 1   |

<sup>\*</sup> INDICATES PARTS RECOMMENDED FOR STOCK

# 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