

## TECHNICAL BROCHURE

BGPGS R1



TYPICAL GUIDE RAIL BASIN KIT

TYPICAL SWITCH

S10020 NEMA 4X OUTDOOR  
CONTROL PANEL

### FEATURES

#### Pump:

Capacities: to 41 GPM, Total Heads: to 95' TDH

Discharge: 1 1/4" NPT

Temperature: 104° F continuous, 140° F intermittent.

**Single mechanical seal:** silicon carbide rotary/silicon carbide stationary, 300 series stainless steel metal parts, BUNA-N elastomers.

**Rotating cutter and cutter ring:** 440 C stainless steel, hardened to 55 - 60 Rockwell C.

#### Motor:

Single phase: 2 HP, 60 Hz, 3450 RPM, 208/230V, capacitor start with on winding thermal protector.

Class F insulation

Shaft: 300 series stainless steel threaded design.

Bearings: ball bearings upper and lower.

Power cord: 20 feet standard 14/3 STOW.

See BRGS2012 pump bulletin for additional data.

### AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards  
By Canadian Standards Association  
File #LR38549



# RGS

GRINDER PACKAGES

| Pump/Control Kit | Order No.   | Description                                 |
|------------------|-------------|---|
| Simplex          | SIMRGSKTN4* | (1) RGS2012 2HP, 230 V, single phase, pump  |
|                  |             | (1) S10020 Simplex outdoor control panel    |
|                  |             | (3) A2D23W Mechanical level switch          |
|                  |             | 4K639 Cast iron pump leg (set of 3)         |
| Duplex           | DUPRGSKTN4* | (2) RGS2012 2 HP, 230 V, single phase, pump |
|                  |             | (1) D10020 Duplex outdoor control panel     |
|                  |             | (3) A2D23W Mechanical level switch          |
|                  |             | 4K639 Cast iron pump leg (set of 3)         |

\* For indoor panel delete suffix "N4", SIMRGSKT includes a S10020N1 panel.  
DUPGRSKT includes a D10020N1 panel.

### GRINDER PUMP PACKAGES

A complete simplex or duplex installation consists of a simplex or duplex pump kit AND a simplex or duplex basin kit.

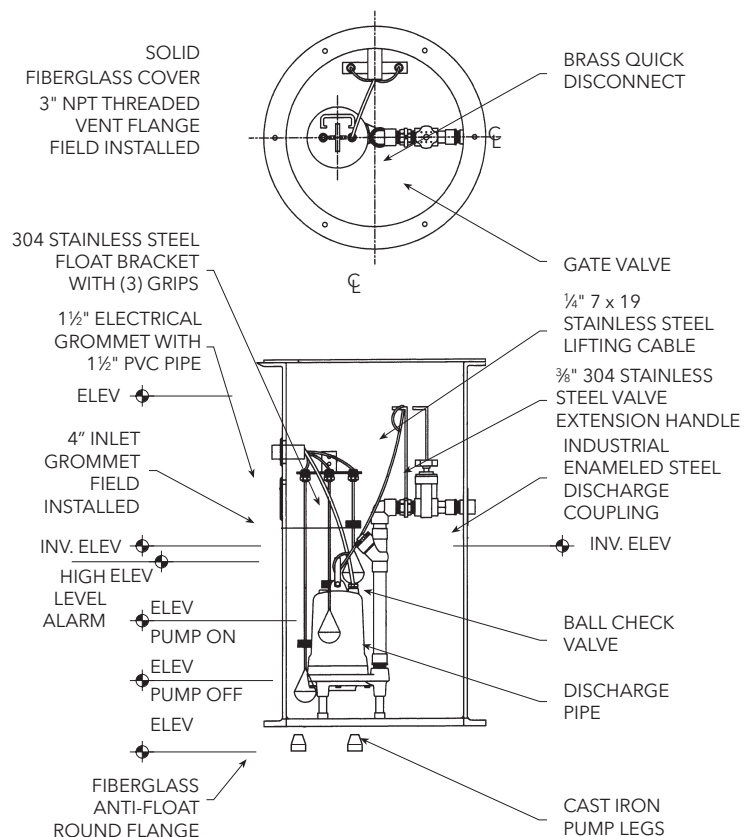
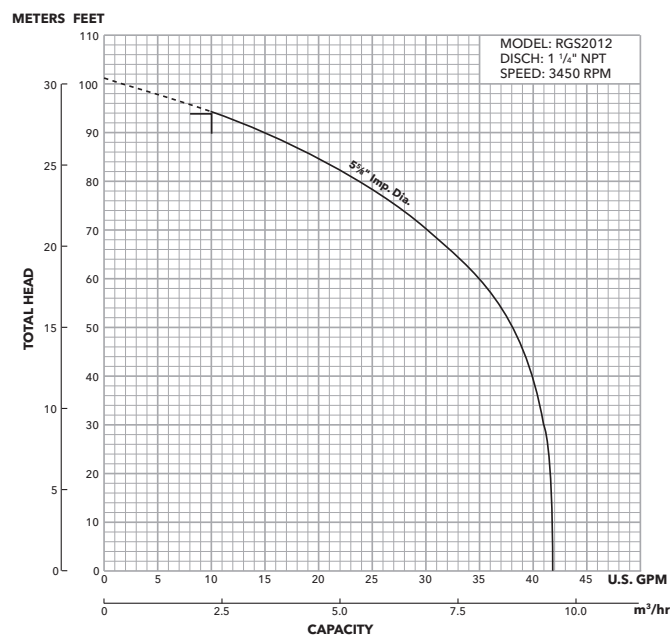
Choose the simplex or duplex basin kit from the chart on the following pages to best suit your installation needs and make sure it is included in your order.

Both pump/control kit and basin kit must be ordered for a complete installation.

### PUMP AND CONTROL DATA

| Component | HP                        | Volts   | Phase | RPM  | Maximum Amps | LRA | Full Load Motor Efficiency | Resistance      |           | Power Cable | Fuse/Circuit Breaker | Weight (lbs.) |
|-----------|---------------------------|---------|-------|------|--------------|-----|----------------------------|-----------------|-----------|-------------|----------------------|---------------|
|           |                           |         |       |      |              |     |                            | Start           | Line-Line |             |                      |               |
| RGS2012   | 2                         | 208/230 | 1     | 3450 | 15           | 59  | 70                         | 2.47            | 0.6       | 14/3        | 30                   | 75            |
| S10020    | Simplex Outdoor N4X Panel |         |       |      |              |     |                            | 20 Maximum Amps |           |             |                      |               |
| S10020N1  | Simplex Indoor N1 Panel   |         |       |      |              |     |                            | 20 Maximum Amps |           |             |                      |               |
| D10020    | Duplex Outdoor N4X Panel  |         |       |      |              |     |                            | 20 Maximum Amps |           |             |                      |               |
| D10020N1  | Duplex Indoor N1 Panel    |         |       |      |              |     |                            | 20 Maximum Amps |           |             |                      |               |

### TYPICAL INSTALLATION



### **BASIN KITS** (Each pump kit requires one of the following basin kits to complete the Residential Pump Package.)

\* Basins are not pre-drilled for 1.5" electrical grommet or for 4" inlet grommet. Parts are shipped loose. Installer must drill holes for grommets.

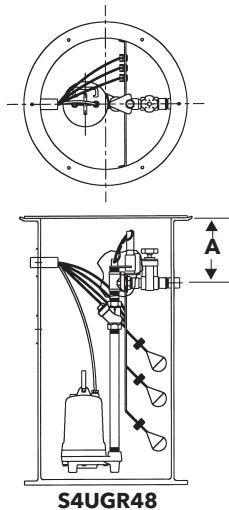
#### **Guide Rail Equipped Basin Installation** (pump is suspended by its discharge)

##### **Simplex**

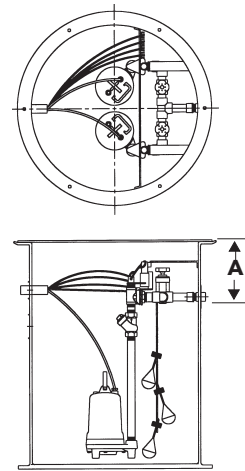
- 24" diameter fiberglass basin with integral anti-floatation ring.
- Stainless steel hardware.
- Grass green solid fiberglass cover.
- 1.5" electrical grommet. \*
- 4" inlet grommet. \*
- Brass quick disconnect coupling.
- Schedule 40 galvanized steel discharge pipe.
- Cast iron ball type check valve.
- Bronze gate valve.
- 1/4" stainless steel pump lifting cable
- Pump slide rail system complete with PVC guide pipe and integral stainless steel guide bracket for those installations requiring a guide rail type system.

##### **Duplex**

- 36" diameter fiberglass basin with integral anti-floatation ring.
- Stainless steel hardware.
- Grass green solid fiberglass cover.
- 1.5" electrical grommet. \*
- 4" inlet grommet. \*
- (2) Brass quick disconnect couplings.
- Schedule 40 galvanized steel discharge pipes.
- (2) Cast iron ball type check valves.
- (2) Bronze gate valves.
- (2) 1/4" stainless steel pump lifting cables.
- Pump slide rail system complete with dual pipe stainless steel guide rail system assembly for those installations requiring a guide rail type system.



**S4UGR48**



**D4UGR48**

| Kit No. | Discharge Piping (SS) | Slide Rail                                       | Basin Dia. | Basin Depth | "A" Dim. |
|---------|-----------------------|--|------------|-------------|----------|
| S4UGR48 | 1.25"                 | Stainless steel guide bracket and PVC guide pipe | 24"        | 48" (tall)  | 20"      |
| S4UGR84 | 1.25"                 |  | 24"        | 84" (tall)  | 42"      |

| Kit No. | Discharge Piping (SS) | Slide Rail                                       | Basin Dia. | Basin Depth | "A" Dim. |
|---------|-----------------------|--|------------|-------------|----------|
| D4UGR48 | 1.25"                 | Stainless steel guide bracket and PVC guide pipe | 36"        | 48" (tall)  | 20"      |
| D4UGR84 | 1.25"                 |  | 36"        | 84" (tall)  | 42"      |

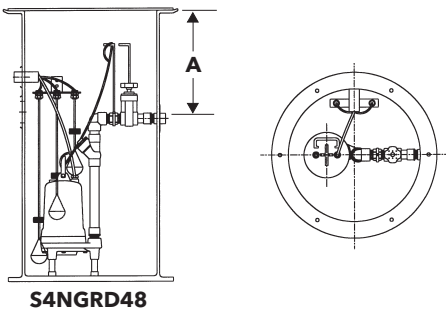
## **BASIN KITS** (Each pump kit requires one of the following basin kits to complete the Residential Pump Package.)

\* Basins are not pre-drilled for 1.5" electrical grommet or for 4" inlet grommet. Parts are shipped loose. Installer must drill holes for grommets.

### **Non-Guide Rail Equipped Basin Installation**

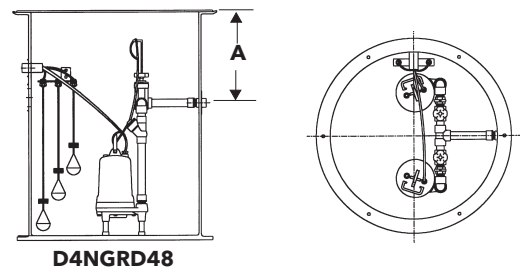
#### **Simplex**

- 24" diameter fiberglass basin with integral anti-floatation ring.
- Stainless steel hardware.
- Grass green solid fiberglass cover.
- 1.5" electrical grommet. \*
- 4" inlet grommet. \*
- Brass quick disconnect coupling with stainless steel pull rod.
- Schedule 80 PVC discharge pipe.
- PVC ball type check valve.
- PVC gate valve.
- ¼" stainless steel pump lifting cable.



#### **Duplex**

- 36" diameter fiberglass basin with integral anti-floatation ring.
- Stainless steel hardware.
- Grass green solid fiberglass cover.
- 1.5" electrical grommet. \*
- 4" inlet grommet. \*
- (2) brass quick disconnect couplings with stainless steel pull rods.
- Schedule 80 PVC discharge pipes.
- (2) PVC ball type check valves.
- (2) PVC gate valves.
- ¼" stainless steel pump lifting cable.



| Kit No.  | Discharge Piping (PVC) | Basin Diam. | Basin Depth | "A" Dim. |
|----------|------------------------|-------------|-------------|----------|
| S4NGRD48 | 1.25"                  | 24"         | 48" (tall)  | 20"      |
| S4NGRD84 | 1.25"                  | 24"         | 84" (tall)  | 42"      |
| S2NGRD48 | 2.00"                  | 24"         | 48" (tall)  | 20"      |
| S2NGRD84 | 2.00"                  | 24"         | 84" (tall)  | 42"      |

| Kit No.  | Discharge Piping (PVC) | Basin Diam. | Basin Depth | "A" Dim. |
|----------|------------------------|-------------|-------------|----------|
| D4NGRD48 | 1.25"                  | 36"         | 48" (tall)  | 20"      |
| D4NGRD84 | 1.25"                  | 36"         | 84" (tall)  | 42"      |
| D2NGRD48 | 2.00"                  | 36"         | 48" (tall)  | 20"      |
| D2NGRD84 | 2.00"                  | 36"         | 84" (tall)  | 42"      |

**xylem**  
Let's Solve Water

Xylem Inc.  
2881 East Bayard Street Ext., Suite A  
Seneca Falls, NY 13148  
Phone: (866) 325-4210  
Fax: (888) 322-5877  
[www.gouldswatertechnology.com](http://www.gouldswatertechnology.com)

Goulds is a registered trademark of Goulds Pumps, Inc. and is used under license.  
© 2012 Xylem Inc. BGPGS R1 April 2012