

"QUALITY PUMPS SINCE 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER
PUMP CO.



SECTION: 2.50.010

FM1478

1006

Supersedes

0405

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:
www.zoeller.com

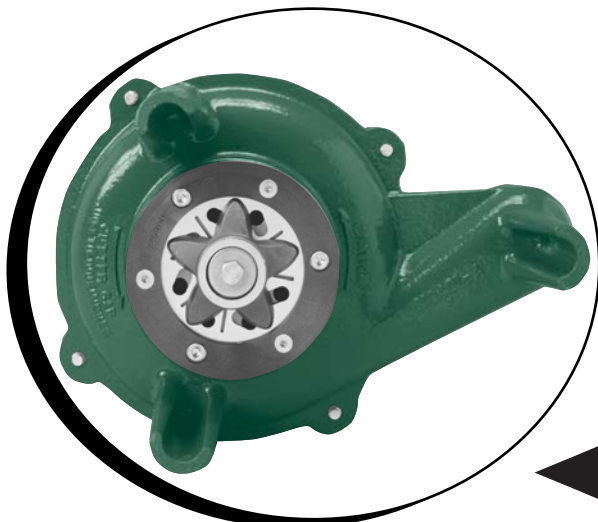
THE SHARK

Series

820 GRINDER PUMP

FEATURES:

- Automatic with Integral Control, Nonautomatic available.
- UL Listed.
- Durable Heavy Duty Finned Cast Iron Construction.
- Legs provide for free standing installation.
- Motor - 2 HP, 60 Hz, 3450 RPM, Oil-filled, Hermetically Sealed with Class B Insulation, Automatic Reset Thermal Overload Protected.
- Upper and Lower Ball Bearings Running in Bath of Oil.
- Hardened Stainless Steel Cutter and Disc.
- Cutters Protected from Abrasive Solids.
- Stainless Steel Lifting Handle, Screws, and Bolts.
- Easily adapts to Rail Systems.
- Mechanical Shaft Seal - Carbon/Ceramic.
- Control panels are not required.
- Simplex Grinder Package Systems (Unassembled and Job Ready/Assembled) available.
- Corrosion resistant powder coated epoxy finish.
- Maximum operating temperature 130°F (54°C).
- 20' Power Cord.



UNIQUELY DESIGNED PUMP WITH INTEGRAL CONTROL

(For Pump Prefix Identification see News & Views 0052)



Tested to UL Standard UL778



WD820/WH820
AUTOMATIC

POWDER
COATED
TOUGH™

E820/I820
NONAUTOMATIC

Submersible Wastewater
Pump Association
SWPA
MEMBER



Product may not be exactly as pictured.

GRINDER SYSTEMS

(A) GRINDER MODEL 820

STANDARD FEATURES:

- 1 1/4" NPT Vertical discharge
- Carbon/Ceramic Seal
- Thermal Overload protection
- Balanced Bronze Impeller
- Stainless Steel Cutter Plate/Cutter
- Stainless Steel Shaft
- Stainless Steel Hardware
- 20' Power Cord

OPTIONS:

- Extra Length Cords (Consult Factory)

(A)

820 GRINDER 2 HP, 1 1/4" N.P.T. VERTICAL DISCHARGE

P/N	WGT.	MODEL	VOLTS	PH	MODE	AMP
<input type="checkbox"/> 820-0011	92	WD820*	230	1	Auto	13.7
<input type="checkbox"/> 820-0004	91	E820	230	1	Nonauto	13.7
<input type="checkbox"/> 820-0005	92	WH820*	200	1	Auto	15.5
<input type="checkbox"/> 820-0006	91	I820	200	1	Nonauto	15.5

* WD & WH grinder pumps are completely automatic with starting controls in pump switch case.

Note: 230V pumps are supplied with a 20 amp plug.

(B) CONTROL PANELS & ALARM SYSTEMS

STANDARD FEATURES:

- Audible & Visual Alarm
- Alarm Silence Switch
- Test Switch for Alarm and Light
- UL Listed

Simplex Panels:

- P/N 10-1037 Includes Alarm & 3 Floats for E820.
- P/N 10-1038 Includes Alarm & 3 Floats for I820.
- P/N 10-0125* Includes Alarm & 3 Floats for E or I Models.

Alarm Paks Only:

- P/N 10-0053 Indoor only. † **NEMA 4X SIMPLEX CONTROL PANEL WITH ALARM**
- P/N 10-0623 Outdoor.
- P/N 10-0126 Outdoor w/ Dry Alarm Contacts.

*Branch circuit protection provided by electrical installer.

INDOOR/OUTDOOR SYSTEM NEMA 4X SIMPLEX CONTROL PANEL WITH ALARM



INDOOR INSTALLATIONS NEMA 1

- P/N 10-1494

INDOOR/OUTDOOR SYSTEM STANDARD DELUXE

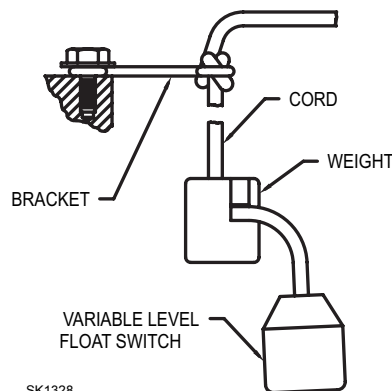
- P/N 10-0623
- P/N 10-0682

† Low voltage terminal connector for float switch.

(C) VARIABLE LEVEL FLOAT SWITCHES

- P/N 10-0033* Switch without Weight & Bracket for E820. WGT. 2.0
- P/N 10-0748 Switch without Weight & Bracket for I820. WGT. 2.0
- P/N 10-0661 1 Weight & Bracket only. WGT. 3.0
- P/N 10-0689 1 Weight only. WGT. 2.5
- P/N 10-1366 Set of Weights & Brackets. WGT. 6.5

*Remove plug.

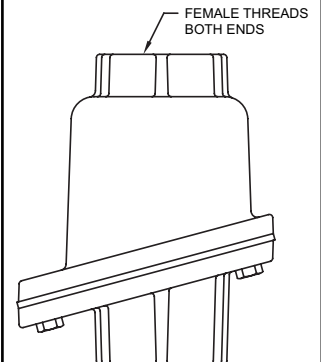


SK1328

Note: All variable level float switches in this section are mechanically activated and do not contain mercury.

(D) CHECK VALVES

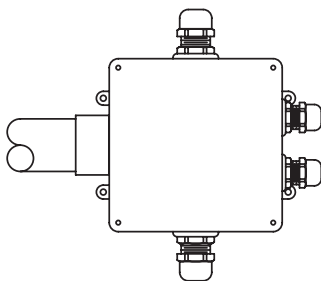
- 1 1/4" Cast Iron NPT Female
- P/N 30-0163 WGT. 7.5
- 1 1/2" Cast Iron NPT Female
- P/N 30-0164 WGT. 7.5
- 2" Cast Iron NPT Female
- P/N 30-0152 WGT. 10.0



SK1330

(E) JUNCTION BOXES (Contact factory if used in conjunction with a control panel)

INDOOR BASIN INSTALLATIONS

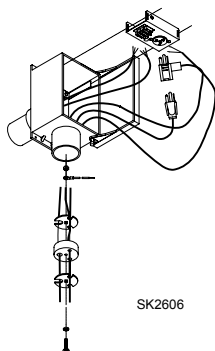


SK1628A

4 Holes with Seals for (1) Power Cord, (1) Pump Cord, (1) Alarm Switch, & (1) Alarm Return Feed.

- P/N 10-0666 WGT. 2.5

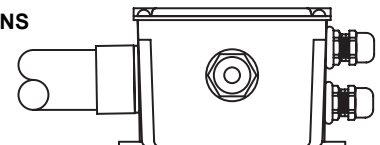
OUTDOOR BASIN INSTALLATIONS



SK2606

Quik-Box Connection (For use with WD Models only) with Seals for (1) Power Cord, (1) Pump Cord, and (1) Alarm Switch Cord. Alarm float switch must operate on low voltage to be used w/ Quik Box.

- P/N 10-0580 WGT. 3.0



SK1628B

4 Holes with Seals for (1) Pump Cord, (3) Control Float Switch Cords and (1) Conduit Connection, use with Control Panel/s (B).

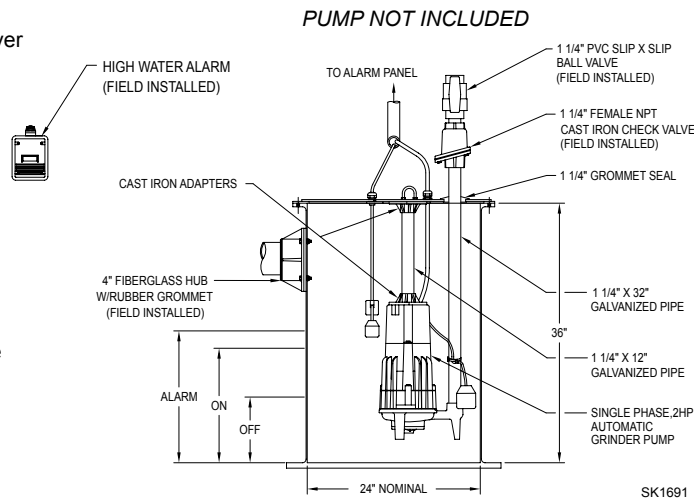
- P/N 10-0647 WGT. 2.5

4 Holes with Seals for (1) Pump Cord, (1) Control Float, (1) Alarm Switch, and (1) Conduit Connection for incoming power and alarm return.

- P/N 10-0677 WGT. 2.5

(F) INDOOR BASIN, COVER, AND HARDWARE - PREPACKAGED STANDARD EQUIPMENT

- Fiberglass Basin
- Rust Resistant Steel Cover (epoxy coated)
- Inspection Plate
- Pump Cover
- 3" Adaptaflex Vent Seal
- 1 1/4" Adaptaflex Discharge Pipe Seal
- Cord Seal
- 1-4" Hub
- Pump Support Hardware
- 1 1/4" Check Valve
- Ball Valve



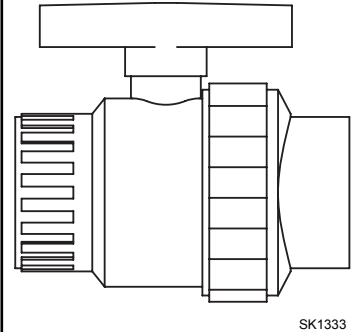
SIMPLEX

□ 24" x 36" P/N 32-0011 WGT. 107

USE WITH AUTOMATIC PUMPS ONLY

(I) BALL VALVE

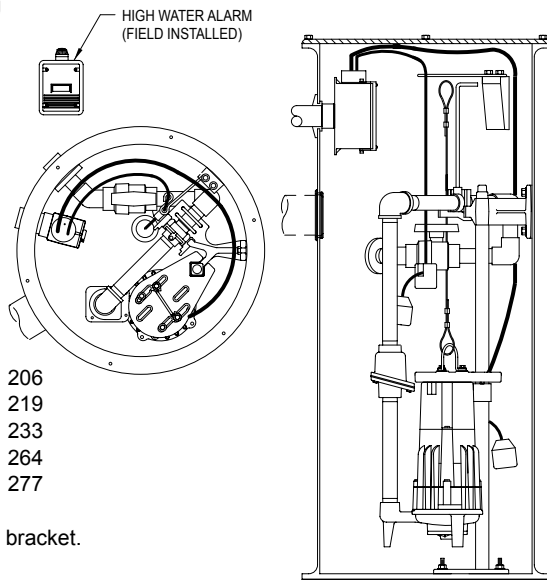
- 1 1/4" IPS
 - P/N 30-0165 WGT. 2.0
- 1 1/2" IPS
 - P/N 30-0166 WGT. 2.0
- 2" IPS
 - P/N 30-0167 WGT. 2.5



SK1333

(G) OUTDOOR BASIN, COVER, AND RAIL SYSTEM ASSEMBLIES - STANDARD EQUIPMENT

- Fiberglass Basin with Anti-flotation Ring
- 1 1/4" PVC Discharge Pipe
- 1 1/4" Rubber Discharge Pipe Seal
- Stainless Steel Square Guide Rail
- 1' Pull Rod
- 8' SS Lifting Cable for basin depths to 84" (12' SS Lifting Cable for basin depths of 96")
- 1 1/4" PVC Ball Valve
- 1 1/4" Cast Iron Check Valve
- 1-4" C.I. Hub
- Fiberglass Cover



SIMPLEX

- 24" x 48" P/N 33-0185 WGT. 206
- 24" x 60" P/N 33-0186 WGT. 219
- 24" x 72" P/N 33-0187 WGT. 233
- 24" x 84" P/N 33-0188 WGT. 264
- 24" x 96" P/N 33-0189 WGT. 277

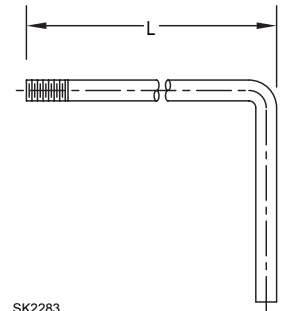
OPTIONS:

- 1 1/4" Stainless Steel pipe from pump to bracket.
- Anti-siphon Device.
- Pre-wired Conduit. (Consult Factory)
- *Other sizes available. (Consult factory).

SK1670

(J) PULL RODS FOR SQUARE GUIDE RAIL SYSTEMS ONLY (Field Installed Systems)

- 1 Ft. "L"
 - P/N 39-0069 WGT. 0.5
- 2 1/2 Ft. "L"
 - P/N 39-0006 WGT. 1.0
- 3 1/2 Ft. "L"
 - P/N 39-0007 WGT. 1.5
- 4 1/2 Ft. "L"
 - P/N 39-0008 WGT. 1.5
- 5 1/2 Ft. "L"
 - P/N 39-0009 WGT. 2.0



SK2283

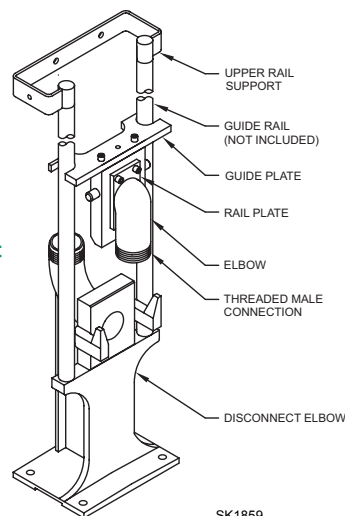
(H) RAIL SYSTEMS - (FIELD INSTALLED)

E-Z out Rail System for 1 1/4" pump discharges (Rail System discharge is 2" NPT male thread)

- Galvanized Fitted**
 - P/N 39-0087 WGT. 43
- Stainless Steel Fitted**
 - P/N 39-0088 WGT. 43

Intermediate Stabilizer Bracket for every 12' of depth.

- Galvanized**
 - P/N 39-0089 WGT. 6.0
- Stainless Steel**
 - P/N 39-0090 WGT. 6.0



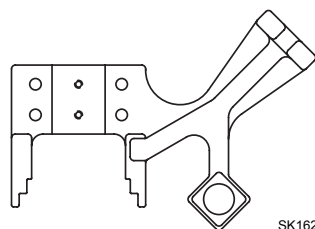
SK1859

Square Guide Rail System for systems less than 96" deep

- BASIN DEPTH**
 - 48" P/N 39-0057 WGT. 90.5
 - 60" P/N 39-0058 WGT. 94.5
 - 72" P/N 39-0059 WGT. 98.5

Fits both round and square basins
Includes Square Guide Rail

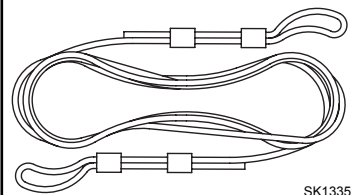
Basins over 72" deep require one additional angle arm bracket.
□ P/N 39-0070 WGT. 11



SK1626

(K) SS LIFTING CABLE (Field Installed Systems)

- 8 Ft.**
 - P/N 39-0031 WGT. 1.0
- 12 Ft.**
 - P/N 39-0032 WGT. 1.0
- 16 Ft.**
 - P/N 39-0033 WGT. 1.0
- 20 Ft.**
 - P/N 39-0034 WGT. 1.0
- 24 Ft.**
 - P/N 39-0035 WGT. 1.0



SK1335

PREPACKAGED AND JOB READY SYSTEMS

INDOOR	
REQ.	
1 Grinder (Auto or Nonauto)	P/N _____ (A)
1 Alarm System (Optional)	P/N _____ (B)
1 Weight Only (Required if alarm is used)	P/N 10-0689 (C)
1 Junction Box (Optional)	P/N 10-0666 (E)
1 Basin, Cover and Hardware	P/N _____ (F)

OUTDOOR	
REQ.	
1 Grinder (Auto or Nonauto)	P/N _____ (A)
1 Control Panel/Alarm System	P/N _____ (B)
1 Float Switch/es (if required)	P/N _____ (C)
1 Weight/s and Bracket/s	P/N _____ (C)
1 Junction Box	P/N _____ (E)
1 Basin, Cover and Rail System	P/N _____ (G)

FIELD MOUNT SYSTEMS

SIMPLEX	
REQ.	
1 Grinder (Auto or Nonauto)	P/N _____ (A)
1 Alarm System (Optional)	P/N _____ (B)
1 Variable Level Fl. Sw. Assm. ⁽²⁾ (Not required for auto pumps)	P/N _____ (C)
1 Weight and Bracket Only (2 required if alarm is used)	P/N 10-0661 (C)
1 Junction Box (Optional)	P/N _____ (E)
1 Rail System (Optional)	P/N _____ (H)
1 Angle Arm/Intermediate Bracket ⁽¹⁾	P/N _____ (H)
1 Pull Rod ⁽³⁾	P/N _____ (J)
1 S.S. Cable	P/N _____ (K)

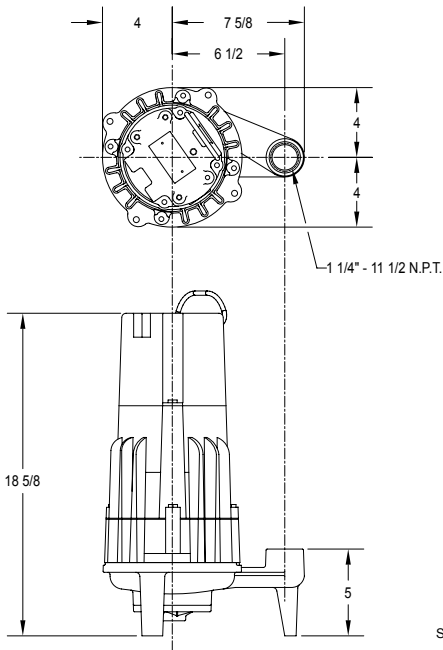
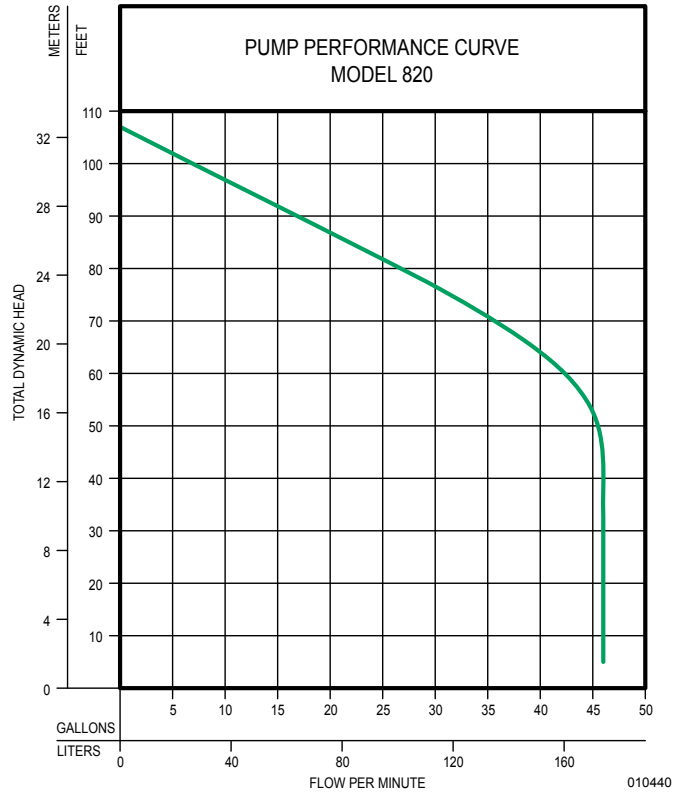
⁽¹⁾ Required for basins over 72" deep (Square Guide Rail) and over 12" (E-Z Out Rail). Allow for overhead clearances.

⁽²⁾ Hardwire pump, float switch, and power supply inside junction box.

⁽³⁾ For Square Guide Rail Only

Note: Contact factory for control panel selection.

Note: Access Doors Available on Field Mount Systems - Consult Factory
Special Basin Configurations - Consult Factory



SK1621

Manufacturers of... **"QUALITY PUMPS SINCE 1939"**