

**Stadium Concession Stand Replacement at
Leonardtwn High School
Bid Number: SMCPS-2024-10-DSS-DC**

**Addendum #1
April 25, 2024**

To Bidders:

This Addendum No. One is hereby made part of the Contract Bidding Documents (dated April 8, 2024) on which the contract will be based, and is issued to modify, explain and/or correct the original contract documents. Please attach this addendum to your contract documents and submitted bids and be otherwise governed accordingly. **Receipt of this Addendum must be acknowledged on the Bid Form.** *Failure to do so may subject the Bid to be considered as non-responsive.*

This Addendum consists of five (5) pages.

Reminder:

A St. Mary's County building permit is not required as St. Mary's County Public Schools is considered a State agency. However, typical trade inspections by MDIA are required throughout the construction of this building for the general contractor and its subcontractors as appropriate. These will be scheduled and paid for by the appropriate contractor.

Changes to the Specifications:

1) St. Mary's County Public Schools (SMCPS) will accept "or equal" substitutions to all building materials, finish materials, and equipment for this project. SMCPS reserves the right to accept or deny any or all submitted substitutions as it sees fit.

2) The following items from the equipment schedule are removed from the base bid price and shall be bid as Add Alternate #3.

- EQ-2
- EQ-3
- EQ-4
- EQ-5
- EQ-11

Requests for Information:

Q: *There doesn't appear to be any code signage scheduled or signage specifications included in the project documents. Please confirm there is no signage required for this project.*

A: There is individual room signage required for this project. Specification Section 10 14 00 has been appended to this addendum. There is no requirement for a project site sign.

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Q: Specification Section 12 32 00 – There is a small amount of cabinets on this project. Please advise if custom cabinetry fabricated by Gold Star Cabinetry is an acceptable alternate, matching Steven's Industries product.

A: Gold Star Cabinetry is an acceptable alternate.

Q: At the site visit we located the existing Distribution Panel (DPLC) that needs to be tied into (note 4 on E-2). The electric room that the DPLC is located in is not shown on the plans and exceeds the LOD on the site plan (markup attached).

a. Can the LOD be expanded to accommodate tying in to the DPLC?

b. Please confirm that any sidewalk/asphalt/grass areas affected by the new electric will have to be restored.

c. Note 9 on E-2 indicates to coordinate with civil drawings and make all connections as required. Please provide an electric site plan showing the connection points and design intent for connection to the existing building (i.e. under boring, trenching, entry point for new electric).

A: **a.** Yes, the LOD can be expanded as needed to accommodate tying into the DPLC electrical panel.

b. All areas effected by the construction of this building shall be returned to their preconstruction state at the end of tis project. This includes all asphalt, concrete sidewalks, grassy areas. Damaging or otherwise disturbing the running track shall be avoided by the construction and construction vehicles. Any damage to the track will be the responsibility of the General Contractor to repair via a certified running track installation contractor.

c. The design intent is to trench or bore from the concessions stand to the exterior of the building while avoiding all turf/track, go up the face of the building with the conduit, and punch straight through into the electrical room since it's an exterior facing room.

Q: Lintel Schedule on S1 indicates W8 w/hung plate for MO over 6'-0Detail 9 /A4 shows angles, but refers to beams per 05.P Which is required?

A: Angle lintels are acceptable at this location.

Q: Detail 1/A4 shows a W8 w/hung plate for a 5'-4 opening @ the water fountain recess. Do we allow for a beam at this location?

A: Yes, the beam and hung plate are required at this location; the hung plate is to be extended to cover the cavity per 1/A-4.

Q: Can you provide a point of contact for EMS contractor for this project?

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A: There is currently no EMS for this project. The EMS contractor will be a subcontractor of the GC that is awarded this contract.

Q: *Is the new building sprinkled?*

A: No.

Q: *What route would be preferred to get the power from the panel we were shown at the Prebid to the new building?*

A: The design intent is to trench or bore from the concessions stand to the exterior of the building while avoiding all turf/track, go up the face of the building with the conduit, and punch straight through into the electrical room since it's an exterior facing room.

Q: Please provide an elevation showing the height of the FRP panels to be installed in the Concessions area. Are these panels to be full height, floor to ceiling?

A: Yes, full height floor to ceiling.

Q: *EQ-01 is shown on the floor plan (Drawing A-2) as a 10' long single worktable. The scheduled model number is only 6' long. Please advise.*

A: The correct model # for the 10' table is ST4-30120SSK.

Q: *Structural steel 051200, 1.5 Quality assurance A&B, "Steel fabricator/erector must provide evidence they have experience of previous work experience with Charles County Public Schools". Please confirm this paragraph should refer to St. Mary's County Public Schools in lieu of Charles County.*

A: Previous experience can be with Charles, St. Mary's, or Calvert County Public Schools.

Q: *Please clarify if the counter doors are to be crank-operated or motor-operated.*

A: The design intent is for the overhead coiling counter doors to be manual, hand crank operated rolling counter doors with counterbalance shaft assemblies.

Q: *On page A-2 on the wall type section, there is a small section where the wall meets the ceiling that they want drywall. Says "1/2" or 5/8 gwb". Please clarify? And how tall is the strip? Hard to judge by just looking at the drawing but I would say no more than 6".*

A: The GWB strips in the "Wall Types" detail on A-2 are there to cover up the PT blocking at the top of the CMU walls (the blocking must be there so that moisture from the CMU

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doesn't migrate up into the trusses). Use the thickness GWB needed for the face of the drywall to align with the CMU wall below.

Q: Same section, in the wall type section, #4 states "all gwb to be 5/8" U.N.O. contractor shall provide moisture resistant gwb where gwb partition are scheduled in high moisture spaces". So I guess that partially answers the first question. But it states the partition, so do you want us to hang regular or moisture resistant 5/8" on the ceiling?

A: The ceilings in the concessions room and all toilet rooms shall receive the moisture resistant 5/8" gwb.

Q: Please provide information on how lighting is to be controlled. Specs call for watt stopper system, but the electrical drawings do not depict how they are to be tied together and controlled.

A: Floor plans and Legend depict required lighting controls. Lighting control devices in a given room control all fixtures in that room.

Q: Are we to pull any low voltage or communication wiring to the building for any data or phone?

A: No.

Q: Is there a point-of-sale system that is going to this building? if so I s this something we should account for? if so is there any specs for this?

A: No.

Q: The conduit shown for power to the building from the school is too small, a 4" conduit should be used. Will this be acceptable?

A: Yes, 4" conduit is acceptable.

Q: Are there any details for grinder pump controls?

A: See the appended literature.

Q: Are there any details on the low voltage switches (S4LV) on what fixtures they are to control? It states (4) buttons?

A: Lighting control devices in a given room control all fixtures in that room. Refer to Legend on S4LV button functions on sheet E-1.

Q: The instructions to bidders reference liquidated damages, but do not provide an amount per day. Please advise.

A: TIME IS OF THE ESSENCE under the Contract. Contractor's failure to complete within the time specified will entitle the Owner to assess the sum stated as liquidated damages in the Contract (\$100.00 per day) for each calendar day of delay in completion, in

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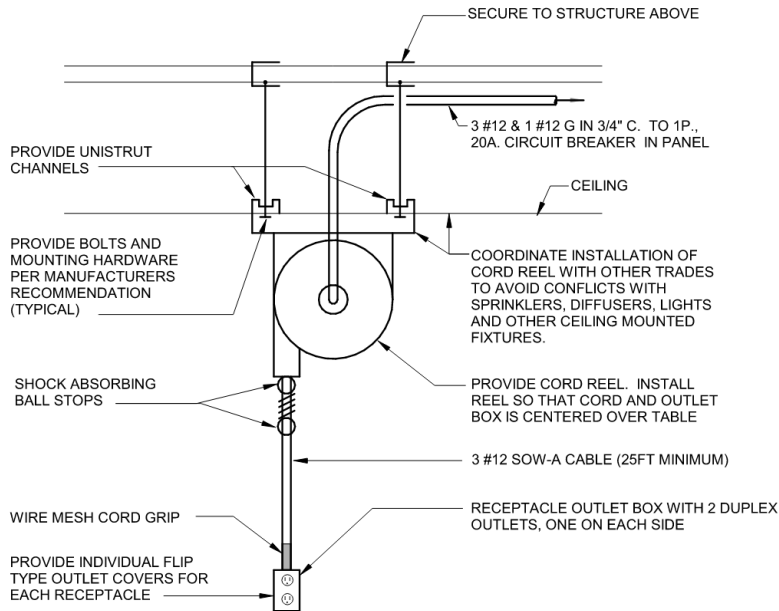
excess of the time stated, including Saturdays, Sundays and legal holidays. The sum shall not be considered as a penalty but as a sum mutually agreed upon as the reasonably ascertained damages suffered by the Owner because of the delay.

Q: Do the receptacles need to be tamper resistant?

A: No.

Q: Please provide a catalog or part number for the two cord reels in concession 100.

A: Legrand 1000 Series Cable Reel with In-Line GFI protection. Or approved equal.



POWER CORD REEL

SCALE = NONE

**--End of Addendum #1
with appended Specification Section 10 14 00,
Revised Sections C and D, and Grinder Pump Literature --**

SECTION 10 14 00 - SIGNAGE

PART 1 - GENERAL

1.1. DESCRIPTION

- A. Furnish all labor, materials, tools, equipment and services necessary for and reasonably incidental to complete the signage work as indicated on the drawings or specified, including, but not limited to the following:
 - 1. Door signs
 - 2. Exterior Signage
- B. All signage shall comply with latest regulations, in particular Americans with Disabilities Act (ADA) signage guidelines.
- C. Refer to architectural drawings for locations and types of signage. A signage schedule shall be submitted for the architect's and owner's review prior to fabrication and installation.

1.2. RELATED SECTION

- A. Section 042000: Unit Masonry

1.3. SUBMITTALS

- A. Shop drawings and material submittals shall be in accordance with the requirements of Division 1.

1.4. GUARANTEE

- A. Guarantee all workmanship and materials for a period of one year.

PART 2- PRODUCTS

2.1. ACCEPTABLE MANUFACTURERS

- A. Gemini, Cannon Falls, MN
- B. ASI Sign Systems, Inc.
- C. Best Manufacturing Sign Systems
- D. Or approved equal

2.2. MATERIALS

- A. Basis of Design Product: Duets by Gemini, shall be used as performance requirements for each of the acceptable manufacturers.
- B. Door Signs:

1. Plaque: Duets Tactiles (ADA&APPLIQUE); acrylic plaque with raised copy/Braille. Height of signs and copy as indicated on drawings, width of signs may vary depending on copy. Height of copy cannot be less than 5/8". Color of copy shall be different from color of plaque and Braille.
2. Equal substitutions will be considered in accordance with Division 01.
3. Mounting Method:
 - a. Signs will be attached to the wall with double face tape and silicone and a clear bead of caulk shall be applied around the perimeter of the signs at a height from the finish floor and the distance from the door jamb as indicated in the drawings. Where signs are mounted on glass, a blank backer will be provided.
4. Copy: Arial
5. Copy Position: Centered
6. Color of signs and text shall be as selected by Owner.
7. At Toilet Rooms, provide appropriate male and female symbols along with Braille.
8. The following rooms will receive room name signs:
 - Concessions
 - Storage
 - Family Restroom
 - Women's Restroom
 - Custodial
 - Men's Restroom
 - Team Room (Part of Add Alternate #1)

PART 3 - EXECUTION

- 3.1. The manufacturer or his representative shall install the exterior letters and numbers.
- 3.2. The Contractor shall install the door signs as recommended by the manufacturer in locations as directed by the Architect.

END OF SECTION

SECTION C

ALTERNATES

C.1 DESCRIPTION OF REQUIREMENTS

- A. An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted. Bidders are required to clearly indicate whether each Alternate Bid increases, decreases or has no effect on the base bid amount.
- B. General Requirements: The requirements of the Contract Documents (including the General Conditions, Special Conditions, Specifications, etc.) apply to work identified in the Alternate bids accepted by the Owner and included in the Contract.
- C. The Contractor is required to coordinate all accepted alternates with related contract Work, and to modify or adjust any adjacent or related work as required to ensure that work affected by each accepted alternate is complete and fully integrated into the project. The cost of all such coordination, modifications and/or adjustments shall be included in the Alternate Bid amount.
- D. Schedule: A "Schedule of Alternates" is included at the end of this section. Specification section(s) relating to the alternate may be referenced in the schedule for convenience only. Bidders are advised to review all specifications and other Contract Documents prior to bidding to confirm any requirements for materials and methods necessary to achieve the work described under each alternate.
- E. Bidders are required to include as part of each alternate bid amount, the cost of all miscellaneous devices, appurtenances and similar items incidental to or required for a complete installation whether or not described as part of the alternate.

C.2 DESCRIPTION OF ALTERNATES

- 1. Finished Team Room
- 2. Extended overhang above the serving windows
- 3. Items from the Equipment Schedule labeled EQ-2, EQ-3, EQ-4, EQ-5, EQ-11.

*****END OF SECTION*****

SECTION D

**BOARD OF EDUCATION OF ST. MARY'S COUNTY
ST. MARY'S COUNTY PUBLIC SCHOOLS**

PROPOSAL FORM

Having requested from St. Mary's County Public Schools, and carefully examined the Contract Documents for the **Stadium Concession Stand Replacement at Leonardtown High School, SMCPS-2024-10-DSS-DC**, and after having visited the site and examined all conditions affecting the work and having received all addenda and written clarifications to the bidders from the Owner, the undersigned hereby agrees if this bid is accepted to enter into a contract with the Owner (in the form included in the Contract Documents) and to perform the work and furnish all plant, labor, materials, supplies, equipment, other facilities, profit, and overhead necessary and proper for the completion of the project as required by and in strict accordance with the Contract Documents and to complete the Work to the satisfaction of the Owner, for the stipulated lump sum(s) of:

Total Base Bid Price: _____ \$ _____
(Defined in written words)

Alternate No. One:
Add: _____ Dollars \$ _____

Alternate No. Two:
Add: _____ Dollars \$ _____

Alternate No. Three:
Add: _____ Dollars \$ _____

In submitting this BID, Bidder represents, as set forth in the Bidding Documents that Bidder has examined copies of all the Contract Documents and the following Addenda:

<u>DATE</u>	<u>ADDENDA NUMBER</u>
_____	_____
_____	_____
_____	_____

Name of Bidder: _____

Address: _____

City, State, Zip Code: _____

Phone No.: _____

Email: _____

Signature: _____
Authorized Representative of Bidder

Printed Name: _____

Date Submitted: _____

By its submission of this bid, the undersigned agrees that in the event it is selected for Contract Award by the Owner, it shall be bound to Owner with respect to post contract award submission requirements set forth in the Solicitation for this Project.

*****END OF SECTION****

MYERS® V2 GRINDER SERIES

SHREDDING WASTEWATER CHALLENGES



**PATENTED AXIAL
CUTTER TECHNOLOGY**



ADVANCED HYDRAULICS



**LEGENDARY SEAL
LEAK DETECTION**

MYERS® V2 SERIES SUBMERSIBLE GRINDER PUMPS

The Myers V2 series grinder is engineered from the ground up, in order to overcome the increased debris and higher pressure required in today's wastewater environment. It features a patented axial cutter design and semi-open impeller to effectively macerate challenging sewage solids into a fine slurry.

Watch the video at www.femyers.com



POLY ROPE



SHOP RAG



SWIFFERS®



MOP HEAD



PATENTED AXIAL CUTTER TECHNOLOGY

Easily slices through solids and trash found in domestic wastewater without roping or clogging.



ADVANCED HYDRAULICS

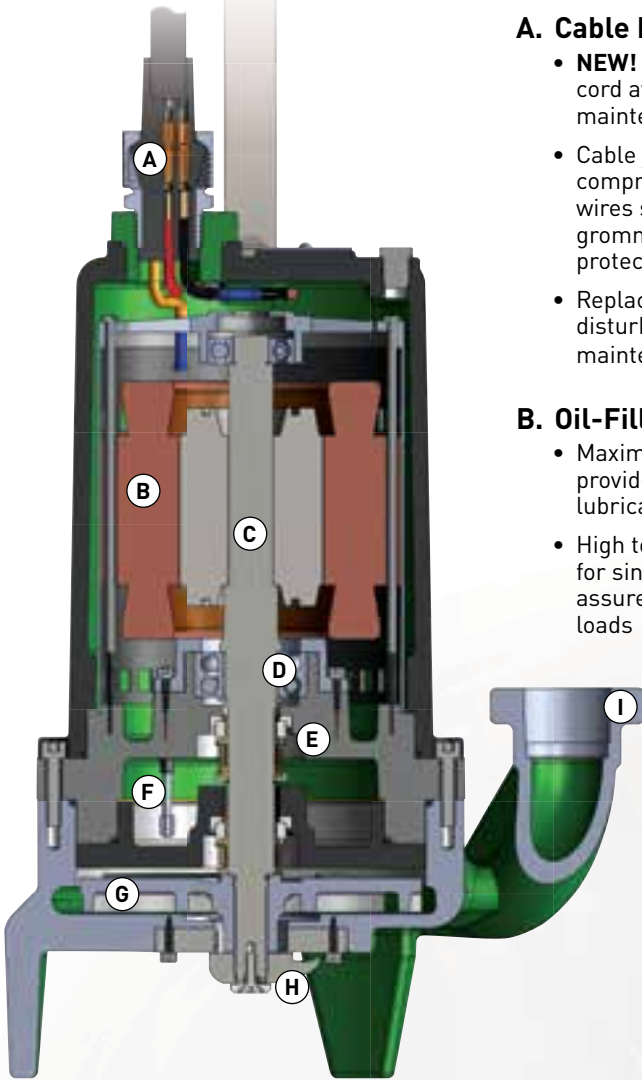
The only single stage 2 HP grinder that can deliver up to 185' of lift for superior performance and reliability.



LEGENDARY SEAL LEAK DETECTION

True early warning system for reduced downtime and maintenance costs.

FEATURES



A. Cable Entry System

- **NEW!** Optional quick disconnect cord available for ease of maintenance
- Cable jacket sealed by compression fitting; individual wires sealed by compression grommet for double seal protection against water ingress
- Replace power cord without disturbing motor for ease of maintenance

B. Oil-Filled Motor

- Maximizes heat dissipation; provides constant bearing lubrication for long life
- High torque start/run capacitor for single or three-phase motors, assured starting under heavy loads

C. Heavy 416 SST Shaft

- Corrosion resistant, reduces shaft deflection for long life

D. Lower Double Row Ball Bearings

- Absorb both axial and radial loads for increased durability

E. Double Mechanical Shaft Seals

- In oil-filled seal chamber for continuous lubrication, superior motor protection

F. Seal Leak Probe

- Located in seal chamber instead of motor area for true early warning of water leaks. Allows corrective action before costly motor or bearing failure occurs.
- Activates warning light in control panel

G. SST Semi-Open Impeller

- Provides improved performance, resists clogging
- Pump-out vanes help keep trash from seal, reduces pressure at seal face for longer life

H. Axial Cutter System

- Constructed of 440 SST hardened to 57-60Rc for long life
- Easily replaceable without dismantling pump

I. Volute Case

- Cast iron 1-1/4" NPT vertical flanged discharge

Electrical Data

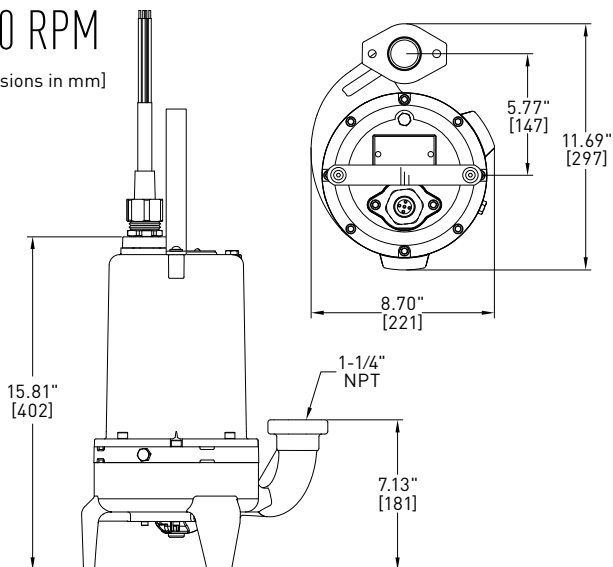
	V/Ph/Hz	HP	Start Amps	FL Amps	Full Load kW	Start KVA	FL KVA	NEC Code Letter	Service Factor	Model	Standard Cord		Quick Disconnect	
											20'	35'	20'	35'
High Head	230/1/60	2	49	18.5	4.2	11.27	4.26	G	1	Catalog Eng	VH20-21-20 28148D000	VH20-21-35 28148D004	VH20-21-20QD 28148D008	VH20-21-35QD 28148D009
	200/3/60	2	53	12.5	3.9	18.3	4.33	L	1	Catalog Eng	VH20-03-20 28148D001	VH20-03-35 28148D005	VH20-03-20QD 28148D011	VH20-03-35QD 28148D012
	230/3/60	2	46	12	3.9	18.3	4.77	L	1	Catalog Eng	VH20-23-20 28148D002	VH20-23-35 28148D006	VH20-23-20QD 28148D014	VH20-23-35QD 28148D015
	460/3/60	2	23	6	3.9	18.3	4.77	L	1	Catalog Eng	VH20-43-20 28148D003	VH20-43-35 28148D007	VH20-43-20QD 28148D017	VH20-43-35QD 28148D018
	575/3/60	2	25	5	3.9	24.9	4.98	L	1	Catalog Eng	VH20-53-20 28148D020	VH20-53-35 28148D021	VH20-53-20QD 28148D022	VH20-53-35QD 28148D023
Standard Flow	200/1/60	2	66	16	3.2	13.2	3.2	G	1	Catalog Eng	VS20-01-20 28151D020	VS20-01-35 28151D021	VS20-01-20QD 28151D024	VS20-01-35QD 28151D026
	230/1/60	2	49	13.5	3.2	11.27	3.12	G	1	Catalog Eng	VS20-21-20 28151D000	VS20-21-35 28151D004	VS20-21-20QD 28151D008	VS20-21-35QD 28151D009
	200/3/60	2	53	10	3.2	18.3	3.46	L	1	Catalog Eng	VS20-03-20 28151D001	VS20-03-35 28151D005	VS20-03-20QD 28151D011	VS20-03-35QD 28151D012
	230/3/60	2	46	9	3.2	18.3	3.58	L	1	Catalog Eng	VS20-23-20 28151D002	VS20-23-35 28151D006	VS20-23-20QD 28151D014	VS20-23-35QD 28151D015
	460/3/60	2	23	4.2	3.2	18.3	3.35	L	1	Catalog Eng	VS20-43-20 28151D003	VS20-43-35 28151D007	VS20-43-20QD 28151D017	VS20-43-35QD 28151D018
	575/3/60	2	25	5	3.9	24.9	4.98	L	1	Catalog Eng	VS20-53-20 28151D022	VS20-53-35 28151D023	VS20-53-20QD 28151D025	VS20-53-35QD 28151D027



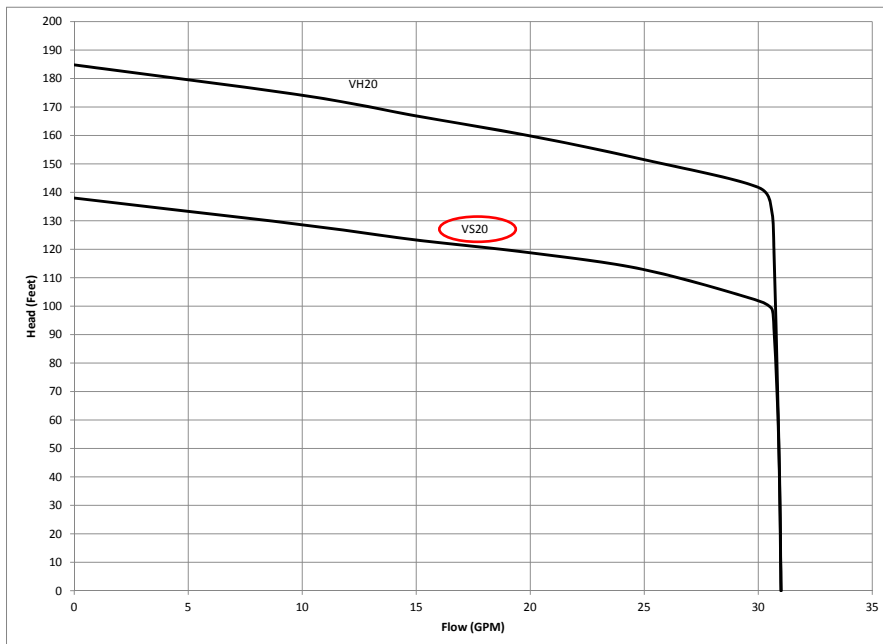
PERFORMANCE DATA AND DIMENSIONS

3450 RPM

[Dimensions in mm]



Product Capabilities		
Capacities To	31 gpm	117.3 lpm
Heads To	185 ft.	56.34 m
Liquids Handling	domestic raw sewage	
Intermittent Liquid Temp.	up to 140°F	up to 60°C
Winding Insulation Temp. [Class F]	311°F	155°C
Motor Electrical Data <small>(Single phase motors are capacitor start type. Myers control panels or capacitor kits are recommended for proper operation and warranty.)</small>	2 hp, 3450 rpm 1 ph – capacitor start/run, 230 volts; 60 Hz 3 ph – induction run 200, 230, 460 volts, 60 Hz	
Std. Third Party Approvals	CSA	
Acceptable pH Range	6 – 9	
Specific Gravity	.9 – 1.1	
Viscosity	28 – 35 SSU	
Discharge (Flange Dia.)	1-1/4 in.	31.75 mm
Min. Sump Diameter		
Simplex	24 in.	61.0 cm
Duplex	36 in.	91.4 cm



Construction Materials	
Motor Housing, Seal Housing, Cord Cap and Volute Case	Cast Iron, Class 30, ASTM A48
Impeller	Semi-Open, Stainless Steel
Mechanical Seals: Standard	Double Tandem Carbon and Ceramic
Optional	Lower Tungsten Carbide
Pump, Motor Shaft	416 SST
Fasteners	300 Series SST
Rotating Cutter, Stationary Cutter	440 SST 57-60 Rockwell



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PH: 855-274-8948

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.



MYERS®

V2 Series

OPERATING CONDITIONS – Each pump shall be rated 2 hp, 230 volts, 1 phase, 60 hertz, and 3450 rpm. The unit shall produce 30 U.S. GPM at 10 feet TDH.

CONSTRUCTION – Each pump shall be of the sealed submersible grinder type, model V² as manufactured by Myers. The pump volute, motor and seal housing shall be high quality gray cast iron, ASTM A-48, Class 30. All external mating parts shall be machined and Nitrile O-ring sealed on a beveled edge. Gaskets shall not be acceptable. All fasteners exposed to the pumped liquid shall be 300 series stainless steel.

POWER CORD – Power cord shall be SOOW water resistant 600V, UL and/or CSA approved. The single cord shall incorporate both power and sensor leads and shall be a minimum of five 12 gauge conductors. The pump shall be protected with compression fitting and epoxy potted area at the power cord entry to the pump. A separation between the junction box area of the pump and the motor, by a stator lead sealing gland or terminal board, shall not be acceptable. The power cable entry into the cord cap assembly shall first be made with a compression fitting. Each individual lead shall be stripped down to bare wire, at staggered intervals, and each strand shall be individually separated. This area of the cord cap shall then be filled with an epoxy compound potting which will prevent water contamination to gain entry even in the event of wicking or capillary attraction. The power cord leads shall be connected to the motor leads with extra heavy connectors having copper inserts with a crimped wire-to-wire connection rather than a terminal board that allows for possible leaks. The cord cap assembly shall be sealed with a Nitrile O-ring on a beveled edge to assure proper sealing.

MOTOR – The stator, rotor and bearings shall be mounted in a sealed submersible type housing. The stator windings shall have Class F insulation (155°C or 311°F) and a dielectric oil-filled motor, NEMA B design (three-phase), NEMA L design (single-phase). Because air-filled motors do not dissipate heat as efficiently as oil-filled motors, they shall not be acceptable. The pump and motor shall be specifically designed so that they may be operated partially dry or completely submerged in the liquid being pumped. The pump shall not require cooling water jackets. Supplemental cooling shall not be acceptable.

BEARINGS AND SHAFT – An upper single row ball radial bearing and a lower double row angular contact

bearing shall be provided. Bearings shall be permanently lubricated by the dielectric oil that fills the motor housing. Ball bearings shall be designed for 50,000 hours B-10 life. The shaft shall be machined from solid 400 series stainless steel and be designed with large diameters and minimum overhang to reduce shaft deflection and prolong bearing and seal life.

SEALS AND SENSORS – The rotor and stator in the motor housing shall be separated and protected from the pumped liquid by an oil-filled seal housing incorporating two type 21 carbon ceramic mechanical seals mounted in tandem. The seal housing shall be equipped with a moisture sensing probe installed between the seals, and the sensing of moisture in the seal chamber shall be automatic, continuous and not require the pump be stopped or removed from the wet well.

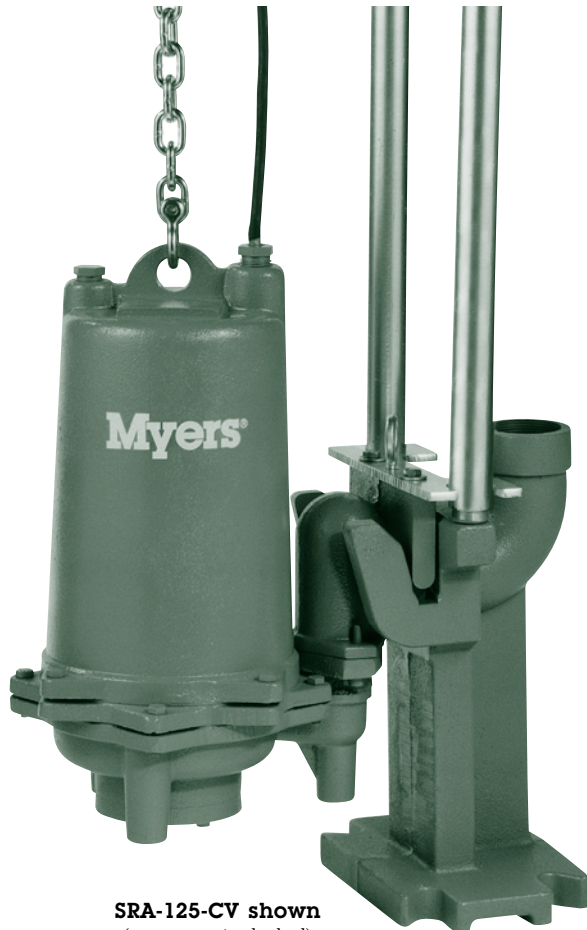
IMPELLER – The impeller shall be constructed of 316 stainless steel and be designed for rough duty service. It shall be a eight-vane, semi-open design with two wash out vanes on the rear shroud. The impeller shall be a non-overloading design.

GRINDER MECHANISM – The stationary cutter shall be circular in design and contain evenly spaced cutting slots that extend outwards from the inlet of the pump. The slots are tapered inward toward the inlet to help direct slurry through the cutting slots into the pump. The slots are to be angled, or undercut, to help maintain a sharp axial cutting edge, even as the axial face wears during use. The stationary cutter shall be pressed into the suction opening of the volute and held in place by four 300 series stainless steel screws. The stationary cutter shall be provided with tapped back-off holes so that screws can be used to remove the cutter from the volute. The rotating cutter shall contain three axial cutting arms extending from the hub, perpendicular to the pump shaft, that are shaped to aid in the rejection of suspended debris that has not been sufficiently reduced in size by the axial cutting action. The curved, leading edge of the cutting arms shall create a scissor action with the cutting slots of the stationary cutter plate to minimize the required torque. This will allow the cutter to macerate tough objects and prolong cutter life. Serrations on the hub of the cutter add additional cuts that prevent debris from becoming entangled within the rotating cutter. The rotating cutter shall thread onto the end of the pump shaft and be secured by a 300 series stainless steel washer in conjunction with a 300 series stainless steel flat head cap screw threaded into the end of the shaft. Both stationary and rotating cutters shall be made of 440C stainless steel, hardened to Rockwell 57-60C and ground close to tolerance. The grinder shall be capable of grinding normal domestic sewage into a fine slurry.

PAINT – The pump shall be painted with waterborne hybrid acrylic/alkyd paint. This custom engineered, quick dry paint shall provide superior levels of corrosion and chemical protection.

SRA Lift-out Packages

1 1/4" to 3" Lift-out Packages
for Grinder, Sewage and Effluent Pumps



SRA-125-CV shown
(pump not included)

NOTE: SRAX-125 package available for Class 1, Division 1, Group C & D installations

MYERS SRA LIFT-OUT PACKAGE MAKES INSTALLATION AND SERVICE OF GRINDER, SEWAGE AND EFFLUENT PUMPS SAFER AND EASIER.

The SRA adapts to nearly any vertical discharge wastewater pump from 1 1/4" to 3". Support brackets are stainless steel for sewage, dewatering or effluent pumping applications. For more information on safer, easier pump installation and service call your Myers distributor today, or the Myers Ashland sales office at 419/289-1144.

ADVANTAGES BY DESIGN

LIFT-OUT PACKAGE OFFERS EASE OF SERVICE AND REINSTALLATION.

- Fast and easy pump removal
- No need for personnel to enter basin
- Offered with or without check valve
- Handles 1 1/4" to 3" discharge pumps
- Heavy duty cast iron construction
- Stainless steel brackets ensures parts will not corrode
- Positive machine fit with o-ring seal

SYSTEM INCLUDES:

- Mounting base
- Lift-out elbow with check valve
- Guide plate
- Fasteners and o-rings

	SRA-125-CV	SRA-150	SRA-200	SRA-300	SRA-320
Elbow Size	1 1/4" x 2"	1 1/2" x 2"	2" x 2"	3" x 3"	2" x 3"
Guide Plate	SST	Galv/SST	Galv/SST	Galv/SST	Galv/SST
Lift-out Elbow w/check valve	Cast Iron**	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Mounting Base	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Fasteners	SST	SST	SST	SST	SST
O-Ring	BUNA-N	BUNA-N	BUNA-N	BUNA-N	BUNA-N
Guide Rails*	1" SST	3/4" SST	3/4" SST	3/4" SST	3/4" SST
Top Rail Support*	TRS-100	TRS-75	TRS-75	TRS-75	TRS-75
Chain*	Galv/SST	Galv/SST	Galv/SST	Galv/SST	Galv/SST

* Must be ordered separately

**Bronze for explosion-proof

WHERE INNOVATION MEETS TRADITION

Myers[®]
Pentair Pump Group

SRA Lift-out Packages

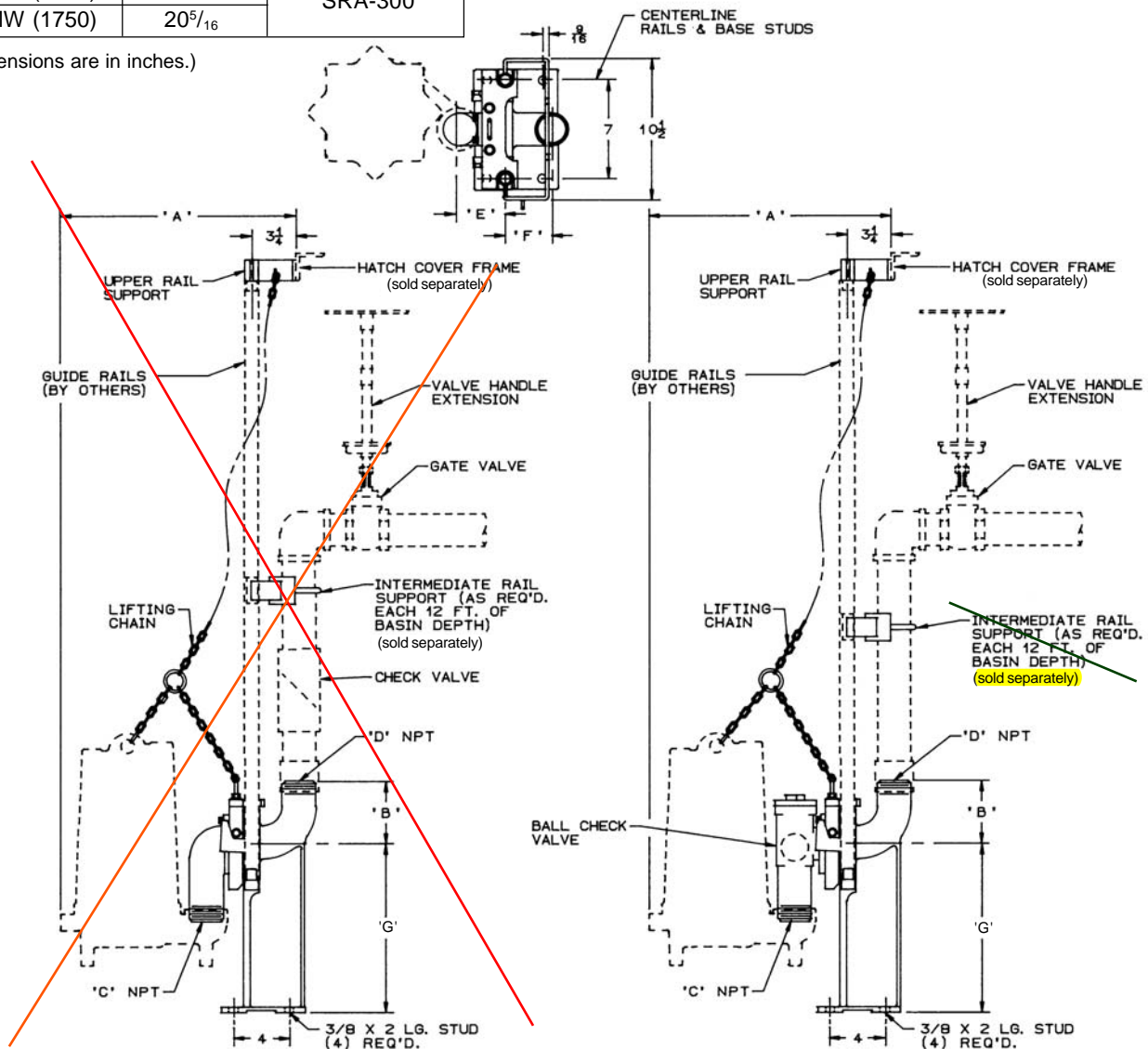
1 1/4" to 3" Lift-out Packages
for Grinder, Sewage and Effluent Pumps

PUMP	'A'	LIFT-OUT
MG/MGH200	16 1/16	SRA-125
WGL20	15 3/8	SRA-125-CV
WG20	15 3/8	
P SERIES	17 3/8	SRA-150
ME3F	16 1/8	SRA-150CV
ME3H	15 7/8	
WHR	16 3/4	
WHRH	16 5/8	SRA-200
MWH/MW	18 1/8	SRA-200CV
SRM4	15 1/2	SRA-320
ME Series	17 5/8	
3MW (3450)	19 1/4	
3MW (1750)	20 5/16	SRA-300

(Dimensions are in inches.)

LIFT-OUT	'B'	'C'	'D'	'E'	'F'	'G'
SRA-125	4 3/8	1 1/4	2	2 15/16	3 1/4	9 11/16
SRA-150	4 5/16	1 1/2	2	3 1/4	3 3/8	12
SRA-200	4 5/16	2	2	3 1/4	3 3/8	12
SRA-320	6 1/2	2	3	3 1/4	4 11/16	12
SRA-300	6 1/2	3	3	4	4 11/16	12
SRA-125-CV	4 3/8	1 1/4	2	2 15/16	3 1/4	9 11/16
SRA-150-CV	4 5/16	1 1/2	2	3 1/4	3 3/8	12
SRA-200-CV	4 5/16	2*	2	3 1/2	3 3/8	12

(Dimensions are in inches)

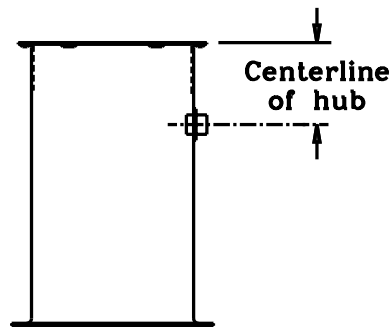
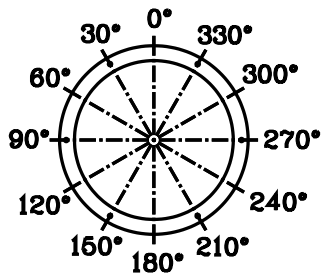


FIBERGLASS BASINS HUB LOCATIONS AND ANTI-FLOTATION

Hub Locations

F. E. Myers will factory-mount conduit, discharge, and/or inlet hubs provided the following information is provided at time of order:

- A. Model/Engineering Number of Hub(s).
- B. Location - "Mount (model/engineering number) at _____ degrees, _____ inches (centerline of hub) from top."



Anti-Flotation

Concrete is recommended to prevent flotation of F. E. Myers standard basins. The following table lists the cubic feet required per foot of basin depth.

Simplex →

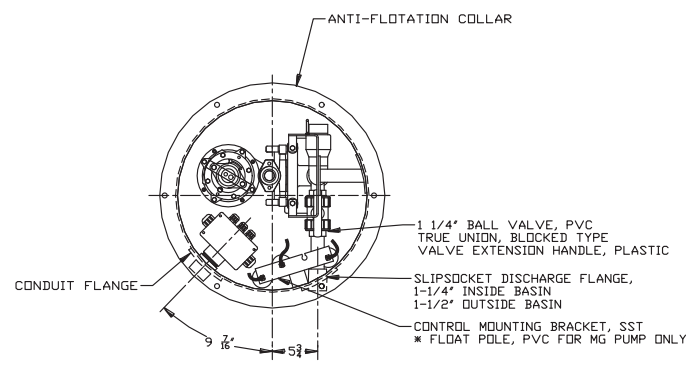
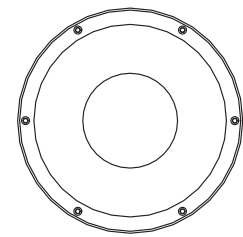
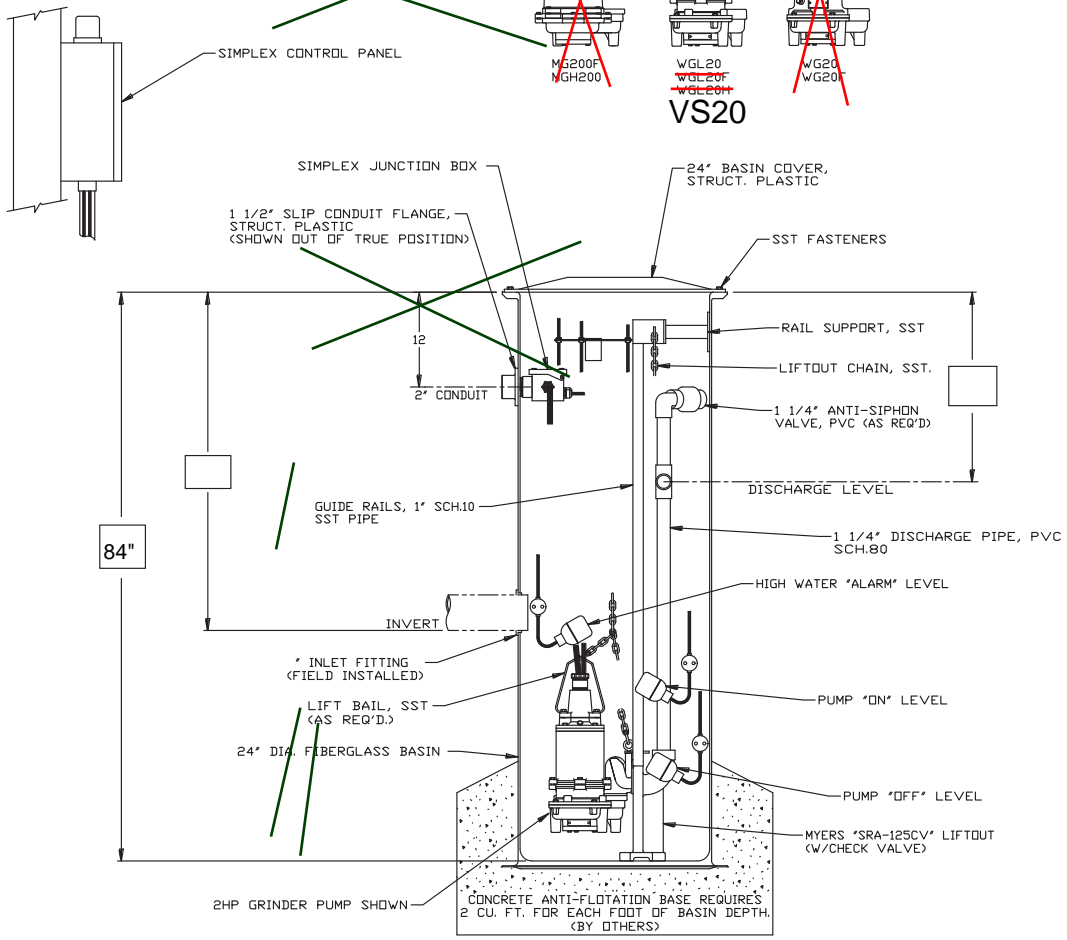
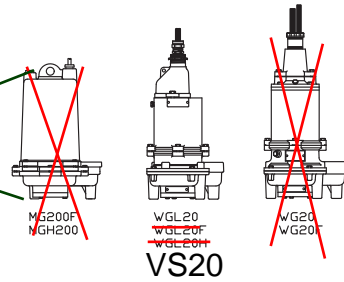
BASIN DIAMETER	CUBIC FEET OF CONCRETE REQUIRED PER FOOT OF BASIN DEPTH
24"	2
30"	3.5
36"	5
48"	8.5

F. E. Myers reserves the right to substitute and/or improve product materials whenever necessary.

TYPICAL INSTALLATION

24" SIMPLEX 2HP GRINDER PUMP PACKAGE W/ SRA-125-CV LIFTOUT WITH REMOTE MOUNTED CONTROL PANEL (MODELS B12SRD-2460P THRU B12SRD-24144P)

PUMP MODEL: ~~MGHD200(F)~~, ~~WGL20KH BR F~~, ~~VG20(F)~~

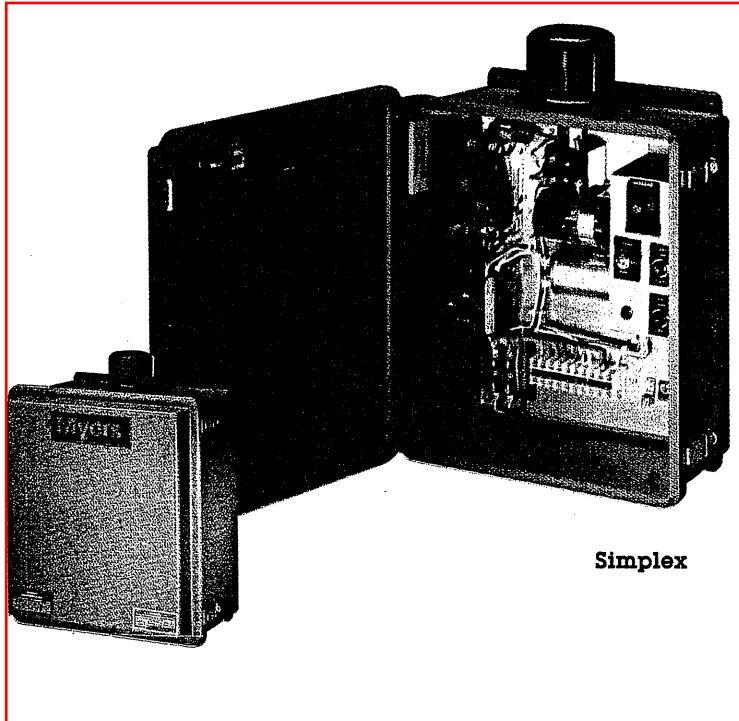


CGL, CG, CNC, CWHV3 and CWHV4 Single Phase Simplex and Duplex Control Panels

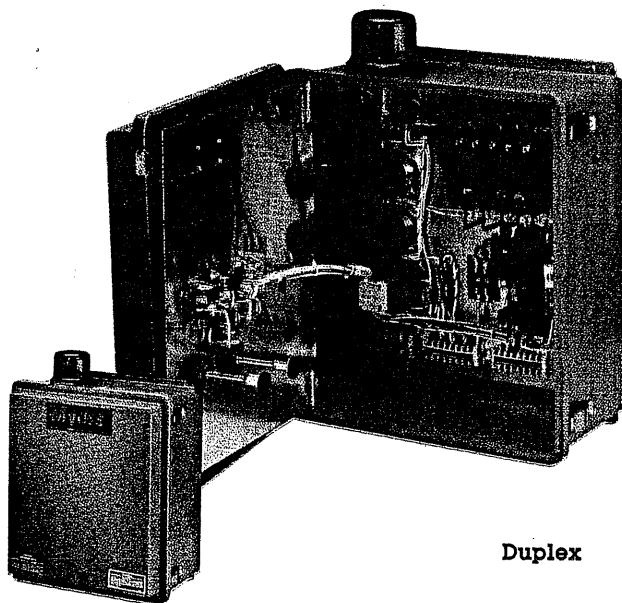
MUST BE__

METCOM 27400A760 for Simplex only

For 2- $\frac{3}{4}$ HP Single Phase Submersible
Grinder Pumps and 1-5 HP
Single Phase Submersible
Non-Clog Pumps



Simplex



Duplex

MYERS HAS RE-ENGINEERED THE CONTROL PANEL LINE FOR IMPROVED DURABILITY, RELIABILITY AND ECONOMY. CAD flexibility enhances our response time to help us better meet your control panel requirements. Contact your Myers distributor, or the Myers Ohio sales office at 419/289-1144 for more details.

ADVANTAGES BY DESIGN

QUALITY ELECTRICAL COMPONENTS ASSURE RELIABLE, AUTOMATIC PUMP OPERATION

- IEC horsepower-rated motor contactors rated at over 1 million cycles.
- ~~CG, CNC, CWHV3/4 have 1 pole ambient-compensated bi-metal overload relay.~~
- CGL has Klixon overload.
- Designed for use with standard mercury float switches. Uses three for simplex (off-on-alarm), four for duplex (off-on-override-alarm).
- Solid state alternating relay (on duplex only) to equalize pump wear.
- Override relay to start second pump if first one fails for any reason.

CORROSION RESISTANT FOR LONG LIFE

- Weathertight NEMA 4X fiberglass enclosures with aluminum back panels.

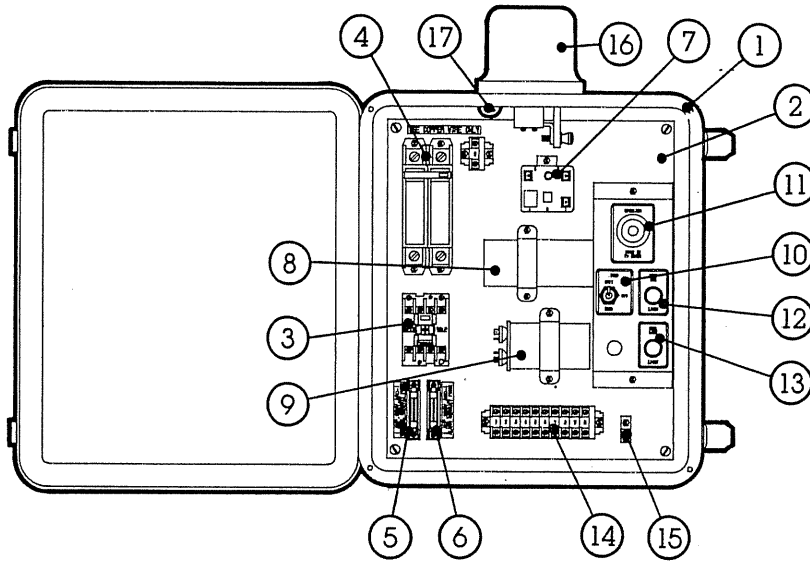
MEETS NEC AND UL (508) STANDARDS FOR SAFETY

- UL-approved panel designs (label installed only on request).
- Individual pump circuit breakers.
- Separate control and alarm fuses.

WHERE INNOVATION MEETS TRADITION

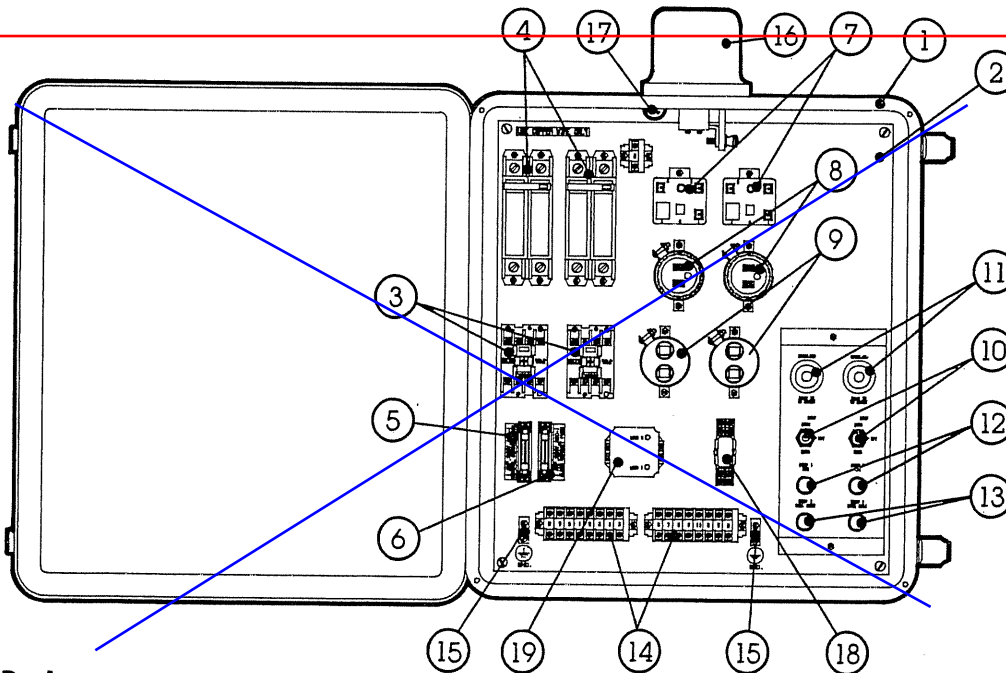
MUST BE MYERS 27400A760 Panel Model

STANDARD PANEL FEATURES FOR CGL



Simplex

- ① CORROSION-RESISTANT ENCLOSURE NEMA 4X fiberglass (outdoor)
- ② ALUMINUM BACK PANEL
- ③ IEC MOTOR CONTACTOR(S) Silver cadmium oxide contacts
- ④ PUMP CIRCUIT BREAKERS
- ⑤ CONTROL CIRCUIT FUSE 1 amp
- ⑥ ALARM CIRCUIT FUSE 1 amp
- ⑦ START WINDING RELAY(S)
- ⑧ STARTING CAPACITOR(S)
- ⑨ RUNNING CAPACITOR(S)
- ⑩ HAND-OFF-AUTO SWITCH Momentary in-hand
- ⑪ KLIKON OVERLOAD
- ⑫ PUMP RUN LIGHT (Amber)
- ⑬ SEAL LEAK LIGHT (Red) Only on units with detector
- ⑭ TERMINAL BLOCKS
- ⑮ GROUND LUG(S)
- ⑯ FLASHING ALARM LIGHT Mounted on top of enclosure (red)
- ⑰ SOLID STATE FLASHER
- ⑱ OVERRIDE RELAY In event of first pump failure (duplex only)
- ⑲ ALTERNATOR RELAY Solid state (duplex only)



Duplex

~~CGL, CG, CNC, CWHV3 and CWHV4~~ Single Phase Simplex and Duplex Control Panels

For 2-5 HP Single Phase Submersible
Grinder Pumps ~~and 1-5 HP~~
~~Single Phase Submersible~~
~~Non-Clog Pumps~~

METCOM PANEL # 27400A760 ONLY

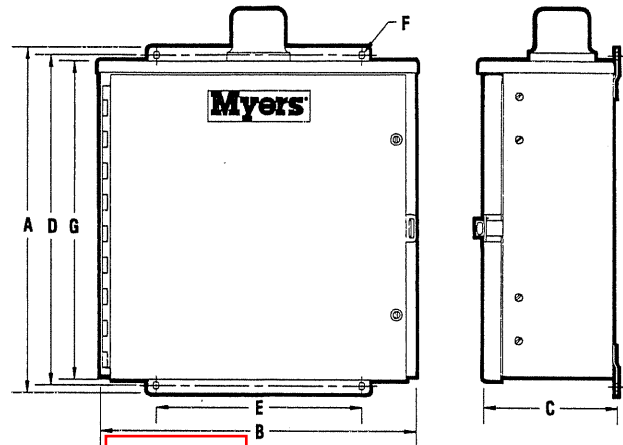
SIMPLEX SELECTION CHART

CATALOG NUMBER	ENCL.	HP	VOLT.	USED WITH PUMPS:
CGL-01SW	NEMA 4X	2	208	WGL20-01 or WGL20-01 (LD)
CGL-21SW	NEMA 4X	2	230	WGL20-21
CGL(LD)-21SW	NEMA 4X	2	230	WGL20-21 (LD)
CG-20-21SW	NEMA 4X	2	230	WG20-21
CG-30-21SW	NEMA 4X	3	230	WG30-21, WG50H-21, 3RH50M2-21
CG-30H-21SW	NEMA 4X	3	230	WG30H-21, 3RH30M2-21
CG-50-21SW	NEMA 4X	5	230	WG50-21
CNC-10-21SW	NEMA 4X	1	230	4V10M6-21
CNC-15-21SW	NEMA 4X	1½	230	4V15M6-21
CNC-20-21SW	NEMA 4X	2-3	230	4V20M6-21, 4V30M6-21
CNC-30-21SW	NEMA 4X	3	230	4V30M4-21, 4R30M4-21
CNC-50-21SW	NEMA 4X	5	230	4V50M4-21, 4R50M4-21
CWHV3-15-21SW	NEMA 4X	1-1½	230	3WHV10M4-21, 3WHV15M4-21
CWHV3-20-21SW	NEMA 4X	2	230	3WHV20M4-21
CWHV3-30-21SW	NEMA 4X	3	230	3WHV30M4-21
CWHV3-50-21SW	NEMA 4X	5	230	3WHV50M4-21
CWHV4-30-21SW	NEMA 4X	3	230	4WHV30M4-21
CWHV4-50-21SW	NEMA 4X	5	230	4WHV50M4-21

DUPLEX SELECTION CHART

CATALOG NUMBER	ENCL.	HP	VOLT.	USED WITH PUMPS:
CGL-01DW	NEMA 4X	2	208	WGL20-01 or WGL20-01 (LD)
CGL-21DW	NEMA 4X	2	230	WGL20-21
CGL(LD)-21DW	NEMA 4X	2	230	WGL20-21 (LD)
CG-20-21DW	NEMA 4X	2	230	WG20-21
CG-30-21DW	NEMA 4X	3	230	WG30-21, WG50H-21, 3RH50M2-21
CG-30H-21DW	NEMA 4X	3	230	WG30H-21, 3RH30M2-21
CG-50-21DW	NEMA 4X	5	230	WG50-21
CNC-10-21DW	NEMA 4X	1	230	4V10M6-21
CNC-15-21DW	NEMA 4X	1½	230	4V15M6-21
CNC-20-21DW	NEMA 4X	2-3	230	4V20M6-21, 4V30M6-21
CNC-30-21DW	NEMA 4X	3	230	4V30M4-21, 4R30M4-21
CNC-50-21DW	NEMA 4X	5	230	4V50M4-21, 4R50M4-21
CWHV3-15-21DW	NEMA 4X	1-1½	230	3WHV10M4-21, 3WHV15M4-21
CWHV3-20-21DW	NEMA 4X	2	230	3WHV20M4-21
CWHV3-30-21DW	NEMA 4X	3	230	3WHV30M4-21
CWHV3-50-21DW	NEMA 4X	5	230	3WHV50M4-21
CWHV4-30-21DW	NEMA 4X	3	230	4WHV30M4-21
CWHV4-50-21DW	NEMA 4X	5	230	4WHV50M4-21

ENCLOSURE DIMENSIONS



PANEL	CGL Simplex 1 Ph.	CG, CNC, CWHV Simplex 1 Ph.	CGL Duplex 1 Ph.	CG, CNC, CWHV Duplex 1 Ph.
MAT'L	Fiberglass	Fiberglass	Fiberglass	Fiberglass
A	15-1/2	17-1/2	19-5/8	19-5/8
B	13-3/8	15-7/16	17-1/2	17-1/2
C	7-3/4	7-11/16	10-5/8	10-5/8
D	14-5/8	16-3/4	18-7/8	18-7/8
E	10	12	12	12
F	5/16	5/16	5/16	5/16

OPTIONAL PANEL FEATURES

- Elapsed time meter
- Alarm bell or horn
- Alarm bell or horn with silence switch
- Auxiliary alarm contacts
- Condensation heater
- Convenience outlet
- Intrinsically safe relays
- Lightning arrestor
- Full inner door (CGL only)
- Cycle counter
- 115 or 24 volt control circuit transformer
- Transfer switch/generator receptacle
- Lag pump delay circuitry (duplex only)
- Low level cut-off and alarm
- Low voltage circuitry

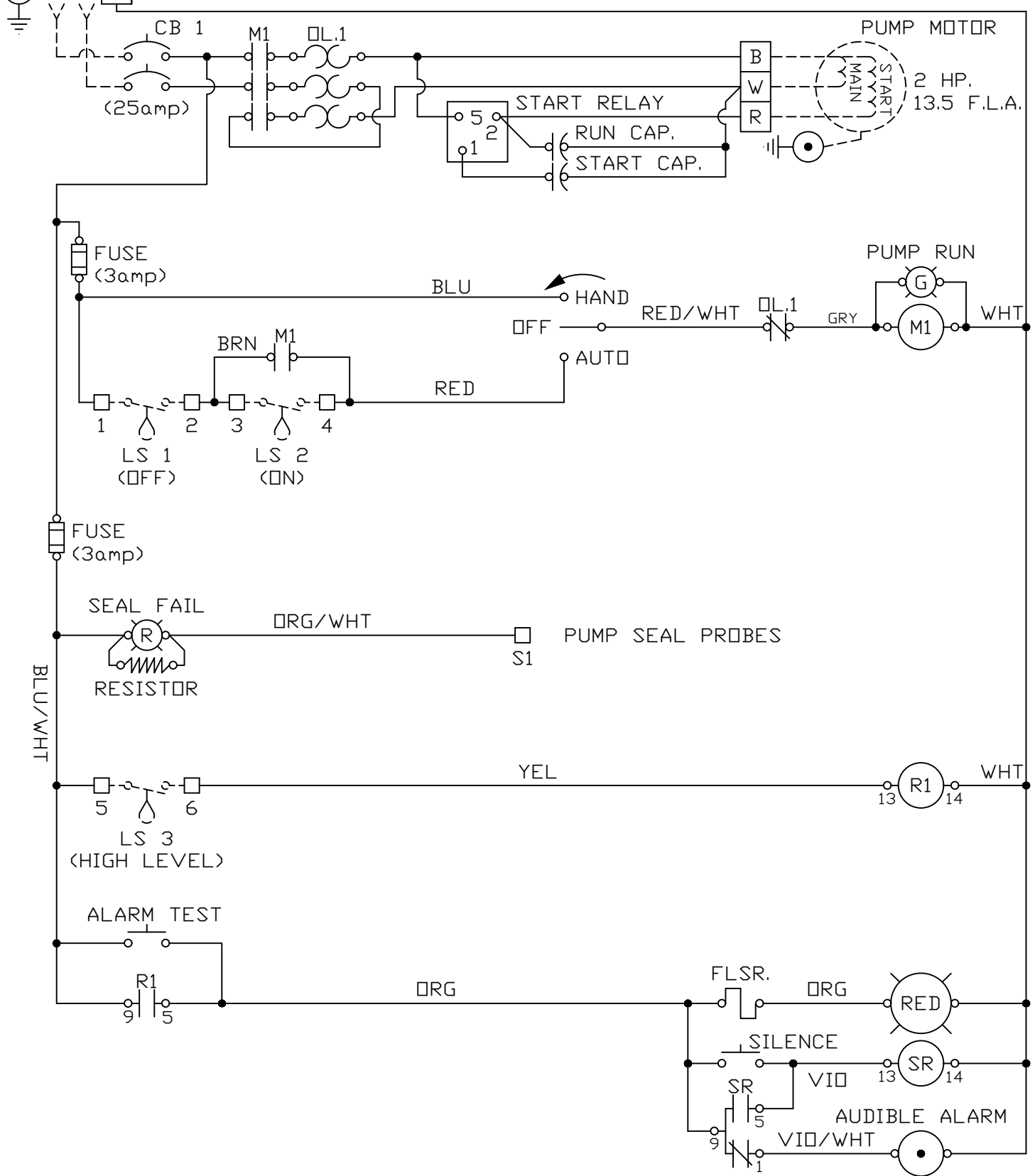
Other options available, consult factory for applications

NOTE: Some options may increase enclosure size.

115/230V-1Ø-60 Hertz Power Supply

MODEL:
VS20-21

NOTE: Panel Main Disconnect Supplied By Installer.



REV.	REVISION DESCRIPTION	DATE	DRWN.

VOLTAGE: 230 VAC	PHASE: 1 Ø	HERTZ: 60 HZ.	TOTAL F.L.A.: 19.5 FLA
LARGEST MOTOR: HP: 2 HP	F.L.A.: 13.5 FLA	ENCLOSURE TYPE: 4X	
SHORT CIRCUIT CURRENT: 5 kA RMS		SYMMETRICAL, 230 V MAX.	

Notes:
 1) Level Switches Must Be Rated A Minimum Of 2 Amps @ 120 Volts
 2) Torque 1/2" Field Terminals To 20 In. Lbs. 3/8" To 20 In. Lbs.
 3) Field Wiring Must Be 60°C Copper Wire Minimum.
 4) ----- = Items Not Supplied In Panel



97-C MONOCACY BLVD
 FREDERICK, MD 21701
 301-682-3390

DRWN.	JTM	DATE	7/9/19
DRWG. NO.			NS-997

Submittal Bill of Material

Data accurate as of 7/31/2019

Part Number **Revision** **Description**
NS-997 **A** **VS20-21, 2HP-230V-1PH, SPLX, METCOM, STH**

<u>Component Part</u>	<u>Qty</u>	<u>Where Used:</u>	<u>Manufacturer</u>	<u>Manufacturer Part Number</u>
1026004	1	ENCLOSURE	STAHLIN	RJ1412HPL
1027169	200	BCKPNL	Ryerson	54288958
1038973	10	TERMINAL	PHOENIX CONTACT	3044131
1039246	1	TERMINAL GND	PHOENIX	3044157
1024530	1	N BLOCK	MARATHON	1411400
1028348	1	GROUND LUG	ILSCO	TA2
1003028	1	CB1	Schneider Electric	QOU225B
1012211	1	M1	Schneider Electric	LC1D18G7
1012396	1	OL1	Schneider Electric	LRD21
1010515	1	START RELAY	MARS	16104
1027776	1	START CAP	BMI	BMI092A130B250B
6000593	1	RUN CAP	MARS	12217
1005336	2	CAP BRACKET	MARS	93031
1027089	2	FUSE (3amp)	BUSSMANN	MDL-3-R
1028826	2	HOLDER	DEL CITY	79075
1028277	2	R1, SR	IDEC	RY2S-UAC120V
1027097	2	BASE	IDEC	SY2S-05
1028346	1	HOA	GAYNOR	SSW7252C
1027810	2	ALARM TEST, SILENCE	EATON	CHZ8411K11
1028345	1	SILENCE BOOT	GAYNOR	SSNC303
1027996	1	(G)	VCC (Visual Communications Co.)	IDI1052QC5
1027993	1	(R)	VCC (Visual Communications Co.)	IDI1050QC1
1036847	1	RESISTOR	TT ELECTRONICS/WELWYN	CMO16802JLFR
1027891	1	FLSR	ATC	ETN-120-AFT-75
1033678	1	RED	INGRAM PRODUCTS	R40-XLS-40
1012033	1	AUDIBLE ALARM	INGRAM PRODUCTS	PW120A-BLACK
1030035	1	SHIP LOOSE - NOT OPENED	HOFFMAN	AHCI1DV
1005699	1	WARNING LABEL		
1028757	1	UL FILE #	METALLICS INC.	1028757
1028501	1	UL	UNDERWRITERS LABORATORIES	UL# S1844

Submittal Bill of Material

Data accurate as of 7/31/2019

<u>Part Number</u>	<u>Revision</u>	<u>Description</u>
NS-997	A	VS20-21, 2HP-230V-1PH, SPLX, METCOM, STH

<u>Component Part</u>	<u>Qty</u>	<u>Where Used:</u>	<u>Manufacturer</u>	<u>Manufacturer Part Number</u>
1028516	1	SCHEMATIC MATCHES TRAVELLER	CSI	PRODUCT SCHEMATIC

MYERS LIMITED WARRANTY GRINDERS, NON-CLOG SEWAGE and WASTEWATER PUMPS

F. E. MYERS warrants that its products are free from defects in material and workmanship for a period of twelve (12) months from the date of purchase or eighteen (18) months from the date of manufacture.

During the warranty period and subject to the conditions hereinafter set forth, **MYERS**, will repair or replace to the original user or consumer parts which prove defective due to defective materials or workmanship of **MYERS**. Contact your nearest authorized **MYERS** distributor or **MYERS** for warranty service. At all times, **MYERS** shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts or components..

Start up reports and electrical system schematics may be required to support warranty claims. Warranty effective only if **MYERS** supplied or authorized control panels are used.

LABOR, ETC. COSTS: **MYERS** shall IN NO EVENT be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or reaffixing any **MYERS** product, part or component thereof.

THIS WARRANTY WILL NOT APPLY: (a) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided; (b) to failures resulting from abuse, accident or negligence; (c) to normal maintenance services and the parts used in connection with such service; (d) to units which are not installed in accordance with applicable local codes, ordinances and good trade practices; or (e) if the unit is moved from its original installation location and (f) unit is used for purposes other than for what it was designed and manufactured.

RETURN OR REPLACED COMPONENTS: any item to be replaced under this Warranty must be returned to **MYERS** in Ashland, Ohio, or such other place as **MYERS** may designate, freight prepaid.

PRODUCT IMPROVEMENTS: **MYERS** reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for units sold and/or shipped prior to such a change or improvement.

WARRANTY EXCLUSIONS: **MYERS** MAKES NO EXPRESS OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. **MYERS** SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE.

Some states do not permit some or all of the above warranty limitations and, therefore, such limitations may not apply to you. No warranties or representations at any time made by any representatives of Myers shall vary or expand the provision hereof.

LIABILITY LIMITATION: IN NO EVENT SHALL **MYERS** BE LIABLE OR RESPONSIBLE FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES RESULTING FROM OR RELATED IN ANY MANNER TO ANY **MYERS** PRODUCT OR PARTS THEREOF. PERSONAL INJURY AND/OR PROPERTY DAMAGE MAY RESULT FROM IMPROPER INSTALLATION. **MYERS** DISCLAIMS ALL LIABILITY, INCLUDING LIABILITY UNDER THIS WARRANTY, FOR IMPROPER INSTALLATION -- **MYERS** RECOMMENDS INSTALLATION BY PROFESSIONALS.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

In the absence of suitable proof of this purchase date, the effective date of this warranty will be based upon the date of manufacture.

Myers[®]

F. E. Myers, 1101 Myers Parkway, Ashland, Ohio 44805-1969
419/289-1144, FAX: 419/289-6658, TLX: 98-7443