### Polylok Duplex Control Panel Link

### Aluminum Hatch Link

**Plan View**

**Elevation View**

**NOTES:**
1. CONCRETE SUPPORT MUST BE 28 DAYS.
2. ALL MOUNTING PLATE MUST CLEAR ALL HOLES.
3. ACCESS PORT VENTED.
4. DRAINAGE AND GRIP VENT VACUUM-PROOF.
5. P. PEPTOPE VENTED AND DRAIN VENTED.
6. PLASTIC INLET CAN BE PREDICTION DOWN CHUTE.
7. PUMPS & ACCESSORIES OPTIONAL.
HEAVY DUTY STAINLESS STEEL HINGE

LIFT HANDLE

CONCRETE ANCHOR

EXPOSED PADLOCK CLIP

30" [762mm]

24" [610mm]

STAINLESS STEEL HELD OPEN ARM

DRAIN COUPLER

NOTE:

1. STYLE "LIFT" ACCESS HATCH, AS MANUFACTURED BY SYRACUSE CASTINGS: QUEENS, NEW YORK
   (315) 699-2601

2. MATERIAL SHALL BE 6061-T6 ALUMINUM FOR BARS, ANGLES, AND
   EXPANSION. 1/4" DIAMOND PLATE SHALL BE 304L STAINLESS

3. UNIT DESIGNED PEDESTRIAN RATED, FOR A MINIMUM LIVE LOAD
   OF 300 LB/FFT.

4. CHANNEL FRAME SHALL BE OF EXTRUDED ALUMINUM. CONCRETE
   ANCHORS SHALL BE WELDED TO FRAME.

5. EACH HATCH SHALL BE EQUIPPED WITH A STAINLESS STEEL
   HOLD OPEN ARM. DOOR SHALL LOCK OPEN IN THE 90 DEGREE POSITION.
   HOLD OPEN ARM SHALL BE FASTENED TO THE FRAME WITH A 1/2" GRAB
   304 STAINLESS STEEL BOLT AND NY-LOCK NUT.

6. HINGES SHALL BE OF HEAVY DUTY DESIGN. MATERIAL SHALL BE
   GRADE 316 STAINLESS STEEL. EACH HINGE SHALL HAVE A GRADE 316
   STAINLESS STEEL, 3/8" DIAMETER HINGE PIN. HINGE SHALL BE
   FASTENED TO THE CHANNEL AND DIAMOND PLATE WITH GRADE 316
   STAINLESS STEEL BOLTS AND NY-LOCK NUTS.

7. EACH HATCH SHALL BE SUPPLIED WITH AN EXPOSED
   PADLOCK CLIP.

8. EACH HATCH SHALL BE EQUIPPED WITH AN ALUMINUM LIFT
   HANDLE. LIFT HANDLE SHALL BE FLUSH WITH TOP OF 1/4" DIAMOND
   PLATE.

9. EACH "LIFT" STYLE HATCH IS SUPPLIED WITH A 1-1/2" THREADED
   DRAIN COUPLER ON THE UNDERSIDE OF CHANNEL FRAME FOR PIPE
   CONNECTION.

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LDT-2 Pedestrian Rated 24" x 30"
Single Leaf Aluminum Hatch

DRAWING # LDT-2

DRAFTED: T.J.M  DATE: 8/10/09  REVISED BY:  REVISED:

SYRACUSE CASTINGS
P.O. BOX 1821  6177 SOUTH EAGLE RD.
CLAYTON, NY 13043

PHONE # 315-699-2601  FAX # 315-699-2782  WWW.SYRCAST.COM
The Myers® ME40 series effluent pumps are one of the industry’s most efficient models featuring a 4/10 HP motor. This powerful pump provides the flow and head required for demanding dosing systems and drainage applications. The ME40 incorporates cast iron, engineered thermoplastic and stainless steel in combination to produce a powerful and highly durable pump.

Available with automatic float switch or manual models for use with external controls for precision dosing installations.

**APPLICATIONS**

Effluent removal, sump drainage, water transfer, flood control

**SPECIFICATIONS**

- Capacities – 80 GPM [303 LPM]
- Shut-off Head – 32’ (9.75 m)
- Operation – Manual or automatic
- Max. Spherical Solids – 3/4” (19 mm)
- Liquids Handling – Domestic effluent and drain water
- Intermittent Liquid Temperature – Up to 140°F [60°C]
- Motor/Electrical Data – 4/10 HP, 1650 RPM, oil-filled, permanent split capacitor (PSC) motor, no starting switches or relays to wear out
- Rugged and Cool
  Rugged-built, oil-filled motor for continuous bearing lubrication and maximum heat dissipation
- Water-tight Fit
  Positive sealing, quick-connect float and switch cords make replacement easy
- **Efficient Dosing**
  Two-vane cast iron impeller design provides maximum dosing efficiency
- **Powerful Torque**
  High-torque, permanent split capacitor (PSC) motor, no starting switches or relays to wear out
- **Seal Protection**
  Lower ball bearing and heavy duty Type 6 seal for added pump life
- **Automatically Better**
  Field-tested, wide-angle, mercury-free float switch provides maximum drawdown (automatic models only)
- **Dual Operation**
  Automatic float switch or manual operation by plugging directly into outlet
- **Thermal Protection**
  Heat sensor overload protection with automatic reset when motor cools to a safe operating temperature

**NEW!** Cast Iron Impeller
EFFLUENT AND DRAIN WATER PUMPS

MYERS® ME40 SERIES

ORDERING INFORMATION

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<tr>
<th>Catalog Number</th>
<th>HP</th>
<th>Volts</th>
<th>Phase/Cycles</th>
<th>Amps</th>
<th>Discharge Size</th>
<th>Switch Type</th>
<th>Approx. Cord Length</th>
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*Piggyback

DIMENSIONS

PUMP PERFORMANCE

- Capacity liters per minute
- Total head in feet
- Total head in meters

- Capacity gallons per minute

PENTAIR
Model 122
Single phase, duplex alternating pump control with override.

New Features:

1. Circuit board is mounted to the inside cover.
2. Additional space for easier wiring.
3. Easier access to HOA switches mounted on circuit board.
4. Separate control and alarm circuit fuses are mounted on circuit board.
5. Auxiliary alarm contact now comes standard.

The Model 122 control panel is designed to alternately control two 120, 208 or 240V single phase pumps in water, wastewater and sewage applications.

The redesigned Model 122 panel features the circuit board mounted to the inside cover which provides additional space for wiring the panel and easier access to HOA switches, control and alarm fuses, and lead/flag selector switch (optional) which are located on the circuit board.

In addition to alternating pump control, this system provides override control should either pump fail. The control and alarm circuits are fused separately, so if one fuse blows there is still power to the other circuit. Auxiliary alarm contact is now standard! The Model 122 panel is UL/cUL Listed and backed by a three-year limited warranty.

Polylok Inc.
Innovations in Precast, Drainage & Wastewater Products

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email: sales@polylok.com
Web site: www.polylok.com
MODEL 122 Control Panel

Single phase, duplex alternating pump control with override.
The Model 122 control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. If an alarm condition occurs, an alarm switch activates the audio/visual alarm system. Common applications include pump chambers, sump pump basins, irrigation systems and lift stations.

PANEL COMPONENTS

1. Enclosure measures 10 X 10 X 6 inches (25.4 X 25.4 X 15.24 cm).
   Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermostatic with removable mounting feet for outdoor or indoor use).
   Note: Options selected may increase enclosure size and change component layout.

2. Magnetic Motor Contactors control pumps by switching electrical lines.

3. HOA Switches for manual pump control (mounted on circuit board).

4. Control Circuit Board provides pump control and alternation.

5. Green pump Run Indicator Lights (mounted on circuit board).

6. Circuit Breakers (optional) provide pump disconnect and branch circuit protection.

7. Ground Lugs

8. Float Status Indicator Lights (mounted on circuit board).

9. Control and Alarm Power Indicator Lights (mounted on circuit board)

10. Auxiliary Alarm Contact, form C (mounted on circuit board).
    NOTE: Schematic is located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

11. Red Alarm Beacon provides 360° visual check of alarm condition.
    Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.

12. Alarm Horn provides audio warning of alarm condition (85 to 85 decibel rating).
    Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.

13. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.

    NOTE: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards

- Dual safety certification for the United States and Canada

- Standard package includes three 20' Sensor Float control switches

- Complete with step-by-step installation instructions

- Three-year limited warranty

Polylok
Innovations in Precast, Drainage & Wastewater Products
Zobel
A Division of Polylok Inc.

3 Fairfield Blvd, Wellington, Connecticut 06492
Office: 1-877-766-9565 Fax: 203-284-8314
email: sales@polylok.com
Web site: www.polylok.com
MODEL 122

ALARM PACKAGE
0 = select options or no alarm package
1 = alarm package (includes test/normal/silence switch, fuse, red light, & horn)

ENCLOSURE RATING
I = indoor, NEMA 1 (metal)
W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTING DEVICE
1 = magnetic motor contactor 120V/208/240V
9 = magnetic motor contactor 120V only

PUMP FULL LOAD AMPS
0 = 0-7 FLA
1 = 7-15 FLA
2 = 15-20 FLA
3 = 20-30 FLA

PUMP DISCONNECTS
0 = no pump disconnect
4 = circuit breaker 120V (select STARTING DEVICE option 9 above)
120V/208/240V (select STARTING DEVICE option 1 above)

FLOAT SWITCH APPLICATION
H or L = pump down or pump up
X = no floats

OPTIONS Listed below

ENCLOSURE UPSIZE
If you selected one or more of the * options, or two ** options, a one-time enclosure upsizing fee would apply.

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

CODE DESCRIPTION
1A Red beacon only / no audio
1C Horn only / no visual
3A Alarm flasher
3B Manual alarm reset
4A Low level cutout
4B Red low-level indicator & alarm
4D Redundant off float switch
5A Thermal cutoff/heat sensor auto reset
5E Seal failure circuit & red indicator (2 wire)
6A Auxiliary alarm contact, form C
8A Elapsed time meter
8C Event (cycle) counter
9A Pump overload

CODE DESCRIPTION
10F Lightning arrester
10K Anti-condensation heater
11C NEMA 1 alarm panel
11D NEMA 4X alarm panel
14B Main disconnect (rotary style, mounted through door, non-fused)

* 0-20 FLA (total of both pumps)
** 20-60 FLA (total of both pumps)
18A 10' cord in lieu of 20' (per float)
18B 15' cord in lieu of 20' (per float)
18C 30' cord in lieu of 20' (per float)
18D 40' cord in lieu of 20' (per float)
17A SJF SignalMaster™ / pipe clamp ▲ (per float)
17B SJF SignalMaster™ / externally weighted ▲ (per float)
17C Sensor Float™ / internally weighted ▲ (per float)
17D Sensor Float™ / externally weighted ▲ (per float)
17E Sensor Float™ Mini / pipe clamp ▲ (per float)
17F Sensor Float™ Mini / externally weighted ▲ (per float)
19B Lead lag selector switch
19F Fourth float to separate alarm function from lag
19T TOA (Test/Off/Auto) switches and pump run lights through door mounted
19U HOA (Hand/Off/Auto) switches and pump run lights through door mounted
19X Door mounted pump run indicator

SAMPLE

MODEL 122 1 W 9 0 4 H 6A BAC

Alarm Package
Enclosure Rating
Starting Device
Pump Full Load Amps
Pump Disconnect
Float Switch Application

Options: Auxiliary alarm contact, form C,
Elapsed time meter, event (cycle) counter,