

C.M.I.

Carry Manufacturing, Inc. @1514 S. Knight Road @Munger, MI 48747 @PH (989) 659-3500 @FAX (989) 659-3506

CAPSULE PUMP STATION - WORKSHEET REQUEST FOR QUOTATION

Date: _____

Project Name: _____

Project Location: _____

Distributor Name: _____ Contact Person: _____

Phone: _____ Fax: _____

Capsule Pump Station Requirements:

Gallons Per Minute: _____ Total Dynamic Head: _____

CMI to determine the required gallons per minute based on the following information: _____

CMI to determine the total dynamic head based on the following information: _____

Capsule Pump Station Size:

Simplex Capsule Pump Station

Duplex Capsule Pump Station

Triplex Capsule Pump Station

Quadplex Capsule Pump Station

CMI to determine the number of pumps based on the required gallons per minute and the following information.

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Capsule Pump Station Pumps Requirements:

- Horsepower: 1/2 Horsepower 3/4 Horsepower 1 Horsepower
 1-1/2 Horsepower 2 Horsepower 3 Horsepower
 5 Horsepower 7-1/2 Horsepower 10 Horsepower
 15 Horsepower CMI to determine the pump size based on other information given.
- Phase: Single Phase Three Phase
- Voltage: 200 Volts 230 Volts 460 Volts 575 Volts
 Other - Please Specify _____

Pumping application requirements:

- Storm Water Salt Water - 316 SS Motor Salt Water - Ni-Resist Motor
 Sand Fighter Oil Stripper

Strainer Screen requirements:

- No strainer screen(s) required. Aluminum strainer screen(s)
 316 Stainless Steel strainer screen(s) PVC and HDPE strainer screen(s)

Pump options required:

- Additional submersible cable lead. Please specify length: _____
 Flexible, nonmetallic conduit around cable leads from the pump to the top of the Capsule tank.
 Nylon lifting rope for each pump. Galvanized lift chain for each pump.
 Stainless lift chain for each pump. Galvanized lift wire rope for each pump.
 Stainless lift wire rope for each pump. None.

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Capsule Pump Station Tank Construction:

CMI to determine the size of the capsule tank based on the information provided and these additional factors.

Common tank diameters are: 48", 60", 72", 84" or 96". Common tank heights are: 8'0", 8'6", 9'0", 9'6", 10'0", 10'6", 12'0" or 12'6".

Capsule tank construction materials:

2-2/3" by 1/2", 12 gauge, galvanized corrugated steel pipe.

3" by 1", 10 gauge, galvanized corrugated steel pipe.

Capsule tank corrosion protection requirements:

Polymer coating inside and out to control corrosion on the surface of galvanized CSP tanks.

Cathodic protection using energized anodes, to control corrosion on the exterior surface of the galvanized CSP tank.

Welded CSP and steel areas of the tank that are coated on both sides with bituminous mastic.

Welded CSP and steel areas of the tank that are undercoated on both sides with Z-99 GAL-V-TAL and overcoated on both sides with bituminous mastic.

Other - Please specify _____

Capsule tank top options:

A single square hatch door.

A set of double hatch doors.

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Hatch door construction options requirements:

1/4" diamond-plate steel. 1/4" diamond-plate aluminum. Bar-grating to accept surface run-off.

A hatch-frame of 1/4" ASTM A36 steel designed to elevate the hatch doors above the top of the tank.

Please specify elevation required: _____

Extra supports for a hatch that is subject to foot or vehicle traffic.

Retreat handles. Grasp handles. Lock hasp.

Other: _____

Other capsule tank options requirements:

Guide lugs and socket on the base of the tank for each pump.

Each pump mount elevated above the base of the tank. Please specify elevation height:

A supplemental hoist and frame for lifting the pump.

Mounting frame and tank-top fittings for the electrical control enclosure.

A pipe coupling for the electrical conduit.

Float mounting pole that can be accessed at the hatch.

Float mounting system that allows floats to hang from the side of the capsule tank.

An interior platform.

An interior ladder that extends from the base of the tank to the ceiling of the tank and has treaded steps.

A ladder extension that provides steps that start above the hatch and lead to the interior ladder.

1/2" weep holes, 6" on center to maintain equal pressure and eliminate heaving caused by buoyancy and an application of geotextile fabric to protect from infiltration.

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Interior plumbing pipe size requirements:

4" Schedule 40 PVC pipe and fittings.

4" Schedule 40 PVC pipe and fittings increasing to 6" Schedule 40 PVC pipe and fittings.

6" Schedule 40 PVC pipe and fittings.

6" Schedule 40 PVC pipe and fittings increasing to 8" Schedule 40 PVC pipe and fittings.

Other - Please specify: _____

Special pipe fitting or accessories requirements:

Quick Disconnect coupling assembly with female threads for each pump (Type A and D).

Quick Disconnect coupling assembly with male threads for each pump (Type B and F).

Wil-loc ball and socket coupling assembly with male threads for each pump.

Coupling assembly material preferred:

Aluminum Stainless Steel Galvanized Steel (Wil-loc fittings) Nyglass (4" coupling only)

Swing Check Valve for each pump.

Manifold that provides a single discharge outlet for the entire pump station instead of an individual discharge outlet per pump. (Not applicable on Simplex Capsule Pump Stations.)

Sluice, Slide or Canal gate on the inlet pipe. Please circle the type of gate required.

Baffle on inlet pipe.

Sluice, Slide or Canal gate on flow-through discharge pipes. Please circle the type of gate required.

Other requirements: _____

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Exterior plumbing options:

Number of inlets: _____ Size of inlets: _____

Inlet pipe options are required:

CSP dimple-band connector. Flexible pipe connector. Enlarged stub for nesting
and grouting.

Are flow-through pipes required: _____ How many: _____ Size: _____

Flow-through pipe options are required:

CSP dimple-band connector. Flexible pipe connector. Enlarged stub for nesting
and grouting.

Are overflow pipes required: _____ How many: _____ Size: _____

Overflow pipe options are required:

CSP dimple-band connector. Flexible pipe connector. Enlarged stub for nesting and grouting.

Other requirements: _____

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Liquid level controls requirements:

A double-float-down (DFD) mercury float system for each pump. (Generally only used for Simplex Capsule Pump Stations.)

A mercury sensor float system.

A B & W relay and electrode system.

Please indicate the level indicators required. Every system needs a float to indicate pump "off" and at least one to indicate pump "on". Additional "pump on" floats may be required as well as high water or low water alarm indicators. Please check all that apply to your application.

Pump Off Lead Pump On Lag Pump 1 On Lag Pump 2 On

Lag 3 Pump On High Water Alarm Low Water Alarm

Other - Please specify: _____

Other type of liquid level control system. Please specify: _____

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Electrical control panel requirements:

Enclosure Options:

Indoor Enclosure: NEMA 12 Enclosure (Steel) NEMA 12 Enclosure with Dead Front

NEMA 12 Enclosure with Dead Front and Window

Other - Please Specify _____

Outdoor Enclosure: NEMA 3R Enclosure (Steel) NEMA 3R Enclosure with Dead Front

NEMA 3R Enclosure with Dead Front and Window

NEMA 4X Enclosure (Fiberglass) NEMA 4X Enclosure with Dead Front

NEMA 4X Enclosure with Dead Front and Window

Other - Please Specify _____

Liquid Level Controls: Mercury DFD Floats Sensor Floats B & W Relay and Electrodes

None Other - Please Specify _____

Pump Controls: (Mounted on the enclosure door or the dead front panel)

Auto-Off-Test Switch(es) Auto-Off-Hand Switch(es) On-Off Switch(es) None

External Indicator Lights: (Mounted on the top of the enclosure)

Pump Run Light(s) Pump Fault Light(s) (one for each pump)

Single Pump Fault Light (signals a fault if any pump fails)

High Water Alarm Light None

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Electrical control panel requirements:

Internal Indicator Lights: (Mounted on the enclosure door or the dead front panel)

Pump Run Light(s) Pump Fault Light(s) (one for each pump)

Single Pump Fault Light (signals a fault if any pump fails)

None

Circuit Breakers: Main Circuit Breaker (controls) Main Circuit Breaker with through-the-door disconnects

Individual Pump Circuit Breaker(s) Individual Pump Circuit Breaker(s) with through-the-door disconnects

None

Pump Protection Devices:

Pump Tec Protection Kit Pump Tec Plus Protection Kit

Subtrol Plus Protection Kit Current Monitor/Relay

Voltage Monitor/Relay Phase Monitor/Relay

Miscellaneous Items:

High Water Alarm Horn (used with High Water Alarm Light)

Time Delay Elapsed Time Meter(s)

Ground Fault Receptacle Control Panel Heater

Lightning Arrestor Flashers None

