

Precast Concrete Pump Station: EX-CCSA

Factory Assembled Concrete Pump Station

Technical Specifications:

Wet Well Structure

Concrete precast rings, including a basepad with riser. Manufactured reinforcing Grade 60 ASTM 478 A615, Joints shall conform to ASTM C443. Specifications, Sizes Range from 36" (In.) – 120" (In.) Diameter and from 6' (Ft.) – 30' (Ft.) Deep. Wet Wells recommended to be ConSealed at the ring joints around the exterior. Capable to Withstand 150% of Anticipated Maximum Pressure Exerted by Saturated Soil (120 lbs./Cf)*.

* NPCA 5,000 PSI Minimum Compressive Strength @ 28 Days

Access Hatch Cover

Aluminum Cover with (1) Lockable Hinged Access Door, Stainless Steel Hinge and Hardware, Rated for 300# PSF. H2O traffic rated attaches available as required

Guide Rail Assembly

- Two (2) Cast Iron Base Elbow Stationary Fittings, Bolted to Wet Well Floor with Stainless Steel Studs. Size Range From 1.25" (In.) – 12" (In.) Flanged Base Elbow Fittings.
- Two (2) Cast Iron Upper Guide Rail Brackets, Mounted on Wet Well Access Cover Frame.
- 1", 2", or 3" 304 Stainless Steel Guide Rails.
- Two (2) Cast Iron Moveable Fittings, Mounted on Pump Discharges, Allow Pumps to be Removed Without Entering Wet Well.
- Two (2) 316 Stainless Steel Lifting Chain, Attached to Pump Lifting Handles.
- Includes Intermediate Guide Rail Brackets if Wet Well Depth is Greater Than 20' (Ft.) Deep.

Submersible Pumps

- **Submersible Grinder Pumps:** 1.25" – 3" Discharge, Range from 2 HP – 16 HP, 208-230/460 V, 1 Phase or 3 Phase.
- **Submersible Non-Clog Pumps:** 2" – 12" Discharge, Range from 1/2 HP – 60 HP, 208-230/460 V, 1 Phase or 3 Phase.
- **Submersible Chopper Pumps:** 2" – 12" Discharge, Range from 3 HP – 60 HP, 208-230/460 V, 3 Phase.

Discharge Piping

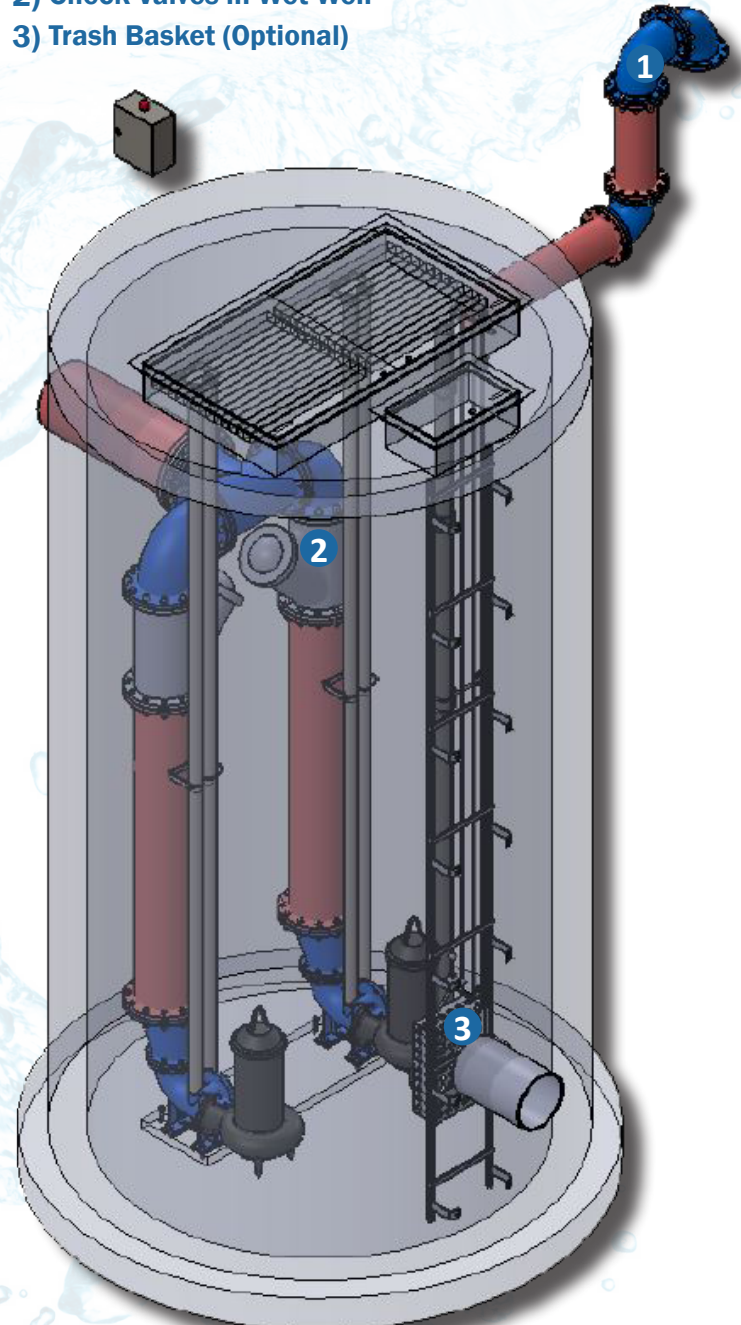
Socket or Flanged Pipe and Fittings, Ranging from 1.25" – 12.00" Diameter, Available in SCH 80 PVC, HDPE, Ductile Iron, or Stainless Steel

- Note: Domestic and AIS Certifications Available.

Valve Options

- Ball Check Valves, Cast Iron Construction.
- Lever & Weight Swing Check Valves, Cast Iron Construction.
- Gate Valves, Bronze Construction.
- Plug Valves, Ductile Iron Construction.
- Note: Domestic and AIS Certifications Available.

- 1) Vent Pipe (Optional)
- 2) Check Valves in Wet Well
- 3) Trash Basket (Optional)





EXCEL FLUID GROUP, LLC

Revision #001/ Aug. 2024

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Electrical Controls

Duplex Control Panel, NEMA 4X Enclosure with Inner Door, HOA Switches, Run Lights, Alarm Lights, Seal Moisture Sensor and Motor Thermal Circuits, High Water Alarm Light and Audible Horn with Silence, Battery Operated Alarm Light, ETMs, Manual Transfer Switch and Generator Receptacle. NEMA and/or IEC starters included. 3 Phase or 1 Phase Options, 1 Phase Include Capacitor Packs.

Level Controls

- Four (4) Float Switch Level Controls, Normally Open.
- Optional Pressure Transducer with Backup Float Switches.

Control Panel Stand

304 Stainless Steel Construction, Hinged Access Door with Lockable Hasps, Includes Stainless Steel Cable Hangers and Serves as Wet Well Vent and Junction Box.

Warranty

Two (2) Years from Date of Shipment. Covers Corrosion from Moisture, Soil, Septic Fluid and Gas, or Structural Failures Occurring in Normal Service, When Installed in Accordance With Manufacturer's Recommendations.

Options:

Treatments

Protecting against H₂S corrosion treatment applied to the wet well can include concrete add-mixtures, paint coatings, epoxy coatings, polyurea coatings or others.

Crane

Steel Construction, 30 Ft of ¼" Stainless Steel Cable with Galvanized Safety Hook, Adjustable Boom, 120VAC Electric Winch with Remote Hand Held Pendulum and Manual Hand Crank, Rated for 800 Lbs.

Safety Grate

Aluminum "I" Bar Construction, Safety Orange Powder-Coated Finish, 316SS Hardware, Tamper Proof SS Hinge Bolts, 300# PSF Load Rated, With Lockable Capability.

Inlet Drop Bowl

Reliner Inside Drop System, Polyester Resin Drop Bowl with SCH80 PVC Drop Pipe, Includes Flexible External Sleeve.

Trash Basket

Aluminum Construction, Perforated Screening Style, With Aluminum Guide Rail System and Stainless Steel Chain.

Manual Transfer Switch

Interlocked Main Double Circuit Breaker, Outdoor General Purpose, NEMA 4X, Stainless Steel Enclosure, UL98 Listed.

Generator Receptacle

Outdoor General Purpose, Load Rated

SCADA Compatibility

Ethernet Module for Control and Status to External System.

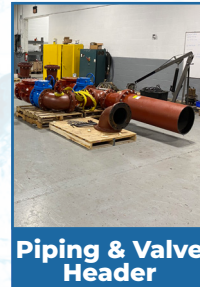
Emergency Bypass Connection

Aluminum Quick Disconnect Fitting with Aluminum Dust Cap includes Gate Valve and Pipe Fittings.

Electrical Plugs/Receptacles

Electrical Pin and Sleeve Quick Disconnect Power Connections, Type 4X, Water and Gas Tight Design.

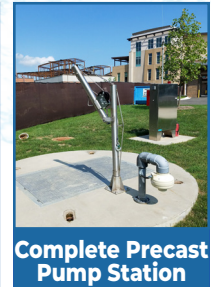
Concrete Pump Station



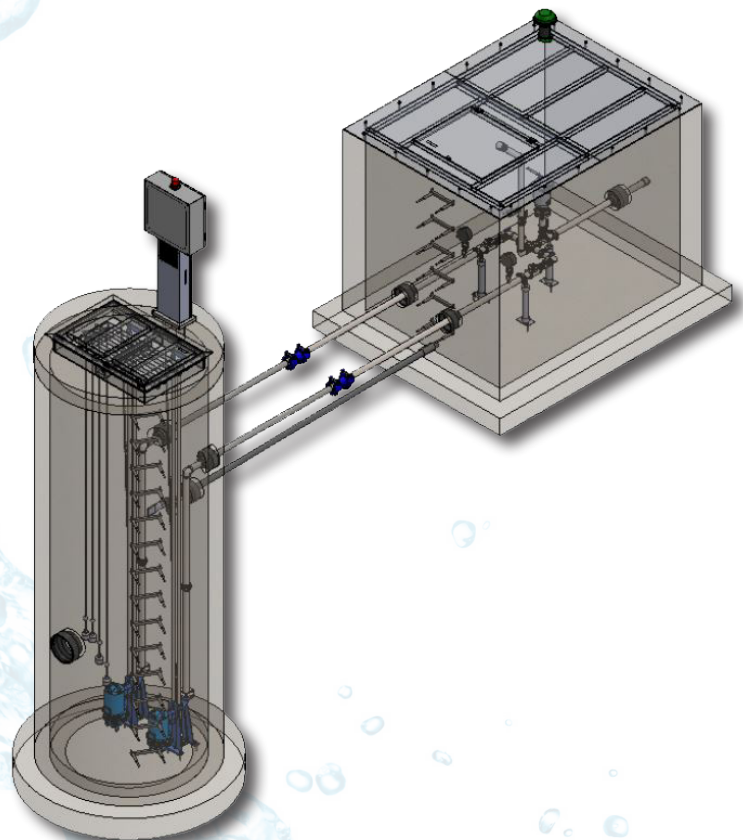
Piping & Valve Header



Electrical Panel Riser



Complete Precast Pump Station



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