



Dewatering Polymer Feed System Upgrade

Date: August 27, 2024
Project: SLR-Prominent Promix Polymer Feed System Upgrade
Owner: City of Oceanside
Contact: Scott Speigle

Thank you for your interest in products offered by D&H Water Systems, Inc. We are pleased to provide the following proposal for your consideration.

Qty	Description	Price	Ext. Price
3	Prominent Promix M 1500x1-8.0PC	\$34,581.33	\$103,743.99
1	Submittals and O&Ms	\$2,000	\$2,000
1	Factory Start-up and Training (1 trip-3 days on site)	\$11,400	\$11,400
1	Freight (FOB shipping point)	\$4,000	\$4,000
		Sales Tax (8.25%)	\$8,558.88
		Total Lot Price	\$129,702.87

Please refer to pages 2-6 of this document to access the detailed scope of supply and equipment cut sheets associated with the above pricing table.

All resulting purchase orders should be sent to clint@dandhwatersystems.com with purchase orders addressed to Prominent Fluid Controls per the Terms and Conditions found on page 2 of this document.

Clint Freeman
 Phone: (925) 550-8696
clint@dandhwatersystems.com

Customer Address:

Doane & Hartwig Water Systems, Inc.
4121 Avenida de La Plata
Oceanside CA 92056

Tel.: 949-481-4560

Attention: Clint Freeman

E-mail: clint@dandhwatersystems.com

QUOTATION

Document Number: US-3022100441 Revision: 2

Document Date: Mar 26, 2024

Customer Number: 6008349

Quoted By: Justin James

Application:

Oceanside CA

I am pleased to provide the following proposal for your consideration.

GENERAL NOTES, CLARIFICATIONS & EXCEPTIONS:

- Prominent has in good faith reviewed all of the plans and specifications that in our opinion, apply to this equipment. This proposal is based on the following sections and drawings only, except as indicated by the exceptions and clarifications. Meeting additional specifications or plans may require a quote revision.
- Specifications: e-mail RFQ
- Drawings:

Clarifications & Exceptions

- Proposal and pricing provided do not include the following unless clearly stated. If these supporting requirements are required and not clearly stated at the time of the RFQ, the pricing provided will be subject to change:
 - ITP and VDL documentation
 - FAT
 - Pre & Post weld heat treatment, weld map and NDE
 - P&ID's
- Poor installation practices and piping designs can lead to improper equipment operation and/or premature failure. Many factors such as chemical properties, pipe size, pipe length, equipment location, etc. can have significant impact on equipment performance. When possible, provide short length, oversized, flooded suction line with positive head pressure to the ProMinent equipment. Discharge lines shall be sized accordingly to minimize excess backpressure. Excessive suction and discharge line length shall be avoided when possible. Please contact ProMinent for further assistance in proper installation and piping design.
- Purchaser shall be responsible for ensuring that all skid equipment quoted will fit in the designated plant space. Approximate not to exceed dimensions have been listed under each proposal section. Please provide any special dimension considerations, and ProMinent will review and advise if accommodations can be made.
- Field startup and training are not included in this quotation unless otherwise stated herein. Please consult the factory at 412-787-2484 for startup charges applicable to this scope of equipment.
- Drawing Submittals:
 - One set of drawings available in electronic format.
 - One set of component manuals is included and will ship with the equipment.
 - Submittals are not included unless quoted as a line item. Charges for submittals will vary for electronic versus paper copies, as well as, content required and binding.
 - Material procurement and production will not begin until submittal drawings are returned and marked approved.

All proposals are subject to ProMinent Fluid Controls' Terms and Conditions which can be found at the following location: http://www.prominent.us/promx/pdf/Terms_and_Conditions_of_Sale_Sept_2019.pdf. Contract Terms and Conditions take precedence over these standard terms.

Should you have any additional questions, please do not hesitate to contact us immediately.

TERMS & CONDITIONS

Payment: Net 30 days

Price: US Dollars, ExWorks, Pittsburgh, PA

Offer Validity: 30 days

Lead Times: Engineering: 2-3 Weeks ARO

Equipment: 8 Weeks ARAD

(Note: All lead times subject to change based on current Engineering and Production capacity at the time of order. Please consult factory when placing your order)

Justin James

Application Engineer

Cell Phone: 412.925.6104

QUOTATION

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Item	Quantity	UoM	Material	Description		
000010	3	EA	UL000010	LIQUID POLYMER ACTIVATION SYSTEM:		
				Net Price:	34,581.33	103,743.99
				PROMIX M 1500x1-8.0PC		
				SYSTEM DESCRIPTION		
				The system is designed to dilute raw polymer, mix the polymer into a polymer solution, and feed the solution to the point of application. The system contains a skid mounted dilution water solenoid valve, dilution water rate control valve, polymer pump, mixing chamber, and system control panel.		
				SEQUENCE OF OPERATION		
				When the system is enabled either locally or remotely, the solenoid valve will open and water will start to flow through the unit and the modulating valve will automatically adjust the water flow to the current system setpoint. When proper water flow has been established, the mixer and pump will start. Polymer is pumped into the mixing chamber where it mixes with the dilution water. The polymer is mixed in the mixing chamber. The activated polymer exiting the mixing chamber. The polymer solution is then fed to the point of application. The system will maintain a consistent concentration over the entire dilution water flow range. The dilution water flow will automatically adjust to maintain the desired solution rate and the polymer pump will proportionally follow the water flow to maintain the desired concentration.		
				SYSTEM COMPONENTS:		
				- 304ss tubular system frame		
				- Dilution water on/off solenoid valve		
				- Dilution water motorized proportioning valve		
				- Pressure reducing valve with pressure gauge		
				- Dilution water paddle wheel flow sensor		
				- 3 Zone motorized mixing chamber		
				- Polymer pump; motor driven progressive cavity pump, 316ss housing and rotor, mechanical seal, Viton stator, and gear motor with inverter duty motor		
				- Pressure relief valve on pump discharge		
				- Clear section of solution discharge pipe		
				- Polymer injection check valve		
				- System discharge pressure gauge		
				- SCH 80 PVC piping		
				- System mounted control panel including:		
				* AB Micro Logix PLC		
				* HMI, AB PV+ 7		
				* FRP, NEMA 4X, enclosure		
				* Fused main disconnect switch		
				* All relays, fuses, terminals, power supplies, etc.		
				as needed for a complete control panel assembly		
				SYSTEM CONNECTIONS:		
				Water Inlet: 1" FNPT		
				Pump Inlet: 1/2" FNPT		
				Solution Discharge: 1" FNPT		
				SPECIFICATIONS:		
				Dilution Water: 1500 gph		
				Pump Capacity: 8.0 gph		

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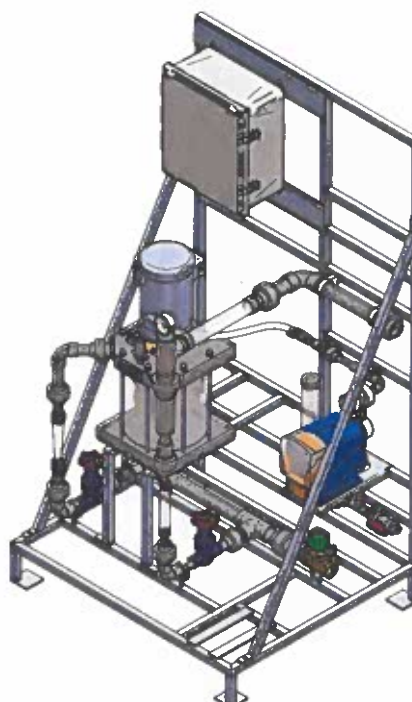
Item	Quantity	UoM	Material	Description		
System Voltage: 120vac/1ph/60Hz						
000040	1	H	DK989080	DOCUMENTATION:		
				Net Price:	2,000.00	2,000.00
				Complete approval submittals and operation and maintenance manuals.		
000050	1	EA	980020	FREIGHT:		
				Net Price:	4,000.00	4,000.00
				Estimated freight to job site.		
000060	1	EA	SE010101	SERVICES:		
				Net Price:	11,400.00	11,400.00
				Factory start-up and training. One trip, three days on site.		
Price						121,143.99
Total Price						121,143.99

ProMix™-M In-line Controls

New - Updated Design!



Progressive Cavity Pump Systems



Diaphragm Metering Pump Systems

The **ProMinent® ProMix™** is a pre-engineered polymer mixing system with intuitive controls. Designed as an in-line or makedown unit, the **ProMix™** is engineered to meet most liquid polymer applications utilizing diaphragm or progressive cavity pump technologies. The unique mixing chamber delivers a highly activated polymer solution to every application with optimum performance.

Features & Benefits

- LCD display with touchpad control
- 4-20 mA input to pace pump
- Remote start/stop
- General alarm contacts
- Adjustable flush settings
- True multi-zone mixing chamber that delivers a tapered energy profile for proper polymer activation
- Unique injection check valve with easy access for cleaning
- Diaphragm and progressive cavity pump options
- System protection against loss of water flow
- Precise activated polymer solution delivery

- Open design for easy maintenance
- Suction lift or flooded suction
- Twist lock fittings
- Selectable emulsion or Mannich polymer

Applications

- Emulsion, dispersion or Mannich polymer activation
- Coagulant or solution polymer feed
- Water and wastewater treatment
- Clarification
- Sludge dewatering

ProMix™-M In-line Controls

Specifications

- Water Inlet: 1-1/2" FNPT
- Polymer Inlet: 1/2" or 1" FNPT
- Product Outlet: 1-1/2" FNPT
- Drain Connection: 1/4"
- Max. Chamber Pressure Rating: 150 psig
- Max. Operating Pressure: 100 psig
- Power Supply:
 - DA Models 120 VAC, 1 ph, 60 Hz, 20 Amp
 - PA Models 220 VAC, 1 ph, 60 Hz, 20 Amp
- Motor: 1.5 hp, 115/230 VAC, 1 PH, TEFC, 1725 rpm
- Dimensions: 40" x 34" x 72" (L x W x H)

Technical data for Diaphragm Metering Pump Systems

ProMix™-M					
Part Number P/N	Model Number M/N	Primary Dilution gph	Post Dilution gph	Neat Polymer Pump gph	Max. Pump Pressure psig
Diaphragm Metering Pump Systems					
1048367	300x2-2.3DA	300	300	2.3	100
1048368	600x2-3.8DA	600	600	3.8	100
1048369	600x2-6.2DA	600	600	6.2	100
1048370	600x2-10.3DA	600	600	10.3	58
1048371	1200x2-6.2DA	1200	1200	6.2	100
1048372	1200x2-10.3DA	1200	1200	10.3	58
1048373	1500x2-6.2DA	1500	1500	6.2	100
1048374	1500x2-10.3DA	1500	1500	10.3	58

Technical data for Progressive Cavity Pump Systems

ProMix™-M					
Part Number P/N	Model Number M/N	Primary Dilution gph	Post Dilution gph	Neat Polymer Pump gph	Max. Pump Pressure psig
Progressive Cavity Pump Systems					
1048375	300x2-5.0PA	300	300	5.0	100
1048376	600x2-5.0PA	600	600	5.0	100
1048377	600x2-10.0PA	600	600	10.0	100
1048378	1200x2-10.0PA	1200	1200	10.0	100
1048379	1200x2-24.0PA	1200	1200	24.0	100
1048380	1500x2-10.0PA	1500	1500	10.0	100
1048381	1500x2-24.0PA	1500	1500	24.0	100