

# MADDEN PUMP

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## CHEMICAL DOSING SKIDS (No Storage Tank)



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## MADDEN DOSING SYSTEM FEATURES

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- **TURNKEY CHEMICAL METERING SOLUTION:** Madden dosing systems are designed to be placed at the job site, connected to a chemical source, connected to power, and start up right away.
- **ACCURACY:** We use positive displacement, diaphragm metering pumps with at least +/-1% accuracy and repeatability. Ensure you are not under or overtreating your application.
- **CHEMICAL COMPATIBILITY:** Madden JN (1-11 GPH), MF (5-60 GPH), and MH (96-180 GPH) series diaphragm metering pumps come with many available materials for the wetted end. We can offer an “A” rated resistance wetted end for any corrosive chemical.
- **BUILD TO ORDER:** This document is intended to make selecting a chemical dosing system easier, but our shop has always been open to custom requests. If you have a chemical dosing application outside of our own metering pumps’ design capability, we will source any positive displacement pump needed to provide the best solution.
- **MANY OPTIONS AVAILABLE:** Madden builds dosing systems with a single pump, with a duty / standby style pump set up; we build with cost effective bent carbon steel bases and also with spill contained poly bases. Some designs stay relatively mechanical and rugged, others add meters and transmitters to satisfy remote monitoring or control.
  - We also make “full” chemical feed systems, which include chemical storage tanks and agitators. See our Chemical Feed System Brochure for more details.
- **BETTER LEAD TIMES:** Madden is a smaller, family owned manufacturer. We invest heavily in inventory. Madden pump parts are all stocked, ready to ship same day when replacements are needed, or to assemble a pump in a few days if a rush order is required.
  - We use local vendors who also prioritize lead times wherever possible. This helps us build turnkey dosing systems faster than most other pump manufacturers as well.
- **EXPERIENCE:** The Madden company has been building chemical feed systems and chemical diaphragm metering pumps since 1953. Currently (2022) we have several employees with over 30 years of experience, continuing to pass down the knowledge accumulated over the years.
  - Design assistance, troubleshooting, and hopefully the best customer service in the industry. This is how we compete with the “big fish” in our industry. What we may lack in our ability to constantly invest in research and development, we make up for by being more consistent and reliable with our production and service. We pride ourselves in being one of the most responsive and easy to work with manufacturers in the industry.
- **MADE IN THE USA:** Madden’s diaphragm metering pumps are made nearly from scratch at our facility in Elkhart, Indiana. We use local vendors whenever possible to show support but also increase our reliability.

***Fill in proposal data sheet on next page...***

## LET'S DESIGN YOUR NEXT CHEMICAL DOSING SYSTEM:

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Contact us through our website or reach out directly to [info@maddenepump.com](mailto:info@maddenepump.com), to let us know the following:

1. Chemical / Liquid: \_\_\_\_\_
  - a. (Please advise if the chemical to be dosed is notably viscous and/or abrasive.)
2. Flow Rate Range Required: \_\_\_\_\_ (GPH)
3. Dosing / Injection Pressure Required: \_\_\_\_\_ (PSI)
4. Motor Requirements: \_\_\_\_\_
  - a. (Madden considers 'standard' motors to be 1800 rpm, TEFC, 1/60/115-230VAC or 3/60/230-460VAC. If you require an explosion proof motor, washdown duty motor, DC motor, etc., please be sure to provide added details.)
5. Simplex Pump Set Up, or Duty / Standby (Duplex) Set Up?: \_\_\_\_\_
6. Poly Spill Contain Base, or Cost Effective Bent Carbon Steel Base?: \_\_\_\_\_
7. Preferred Pipe & Fittings Spec's? (Check Box)
  - a. Threaded Rigid Plastic
  - b. Socket & Glue Rigid Plastic
  - c. Threaded Fittings and Flexible Plastic Tubing
  - d. Threaded Steel
  - e. Compression Fittings with Bent Steel Tubing(At this time Madden cannot weld up completely flanged assemblies.)
8. If known, what ancillary equipment do you want to be sure is included:  
(Check all necessary boxes)
  - a. Adjustable Pressure Relief Valve
  - b. Adjustable Back Pressure Valve
  - c. Pressure Gauge
  - d. Pulsation Dampener
  - e. Variable Frequency Drives for remote control of pumps
  - f. Calibration Column
  - g. Flow Meter and Display

9. General Comments:

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***Part Numbering / Order Tree on next page....***

## PART NUMBER / ORDERING TREE

Madden dosing system model numbers start with “DS” then the rest as follows:

Skid Material
"P" – Poly (Spill Contain)
"S" – Painted Steel

Pump Set Up
"1" - Simplex
"2" - Duplex, Duty/Standby

Ancillary Equipment
"1" - Pressure Relief Valve
"2" - Back Pressure Valve
"3" - Variable Frequency Drive
"4" - On/off Toggle & 15' Cord
"5" - Pressure Gauge
"6" - Pulsation Dampener
"7" - Flow Meter & Display
"8" – Calibration Column

Piping Material
"PT" – Plastic, Rigid, NPT
"ST" - Stainless Steel, NPT
"PS" – Plastic, Rigid, Socket
"SC" – Stainless Steel, Compression
"PH" – Plastic, Flexible/Hose

Max Pump Output
"__" GPH (no decimals)
Reference Madden Pump data sheets for specific available flow rate ranges.

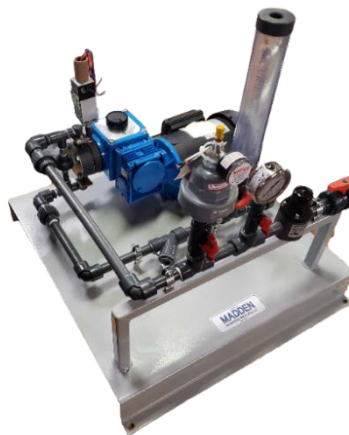
Madden Pump Series
"J" - JN Series
"F" - MF Series
"H" - MH Series
"OH" – Other brand, High Pressure
"OS" – Other brand, Solenoid

Motor Type
"S1" – TEFC, 1/60/115-230
"S3" – TEFC, 3/60/230-460
"X1" – Ex Prf, 1/60/115-230
"X3" – Ex Prf, 3/60/230-460
"__" – (specify if other)

**Example:**

DSPPSJ	-	160S3	-	12358
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*For other materials of construction, ancillary items, design changes, etc., please contact the factory.*



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