

Diaphragm Metering Pumps for simple, rugged and accurate metering of acids, caustics, polymers, boiler chemicals and many other fluids, 24 hours a day, 365 days a year.

- Many metal, plastic and rubber materials available from stock.
- Adjustable flow, with manual knob or automatic controller, 10:1 turndown range.
- Precision steel and bronze worm gearing, continuously lubricated in an oil bath.

See Madden brochure No. P14 or our website at www.maddenmfg.com for complete details.



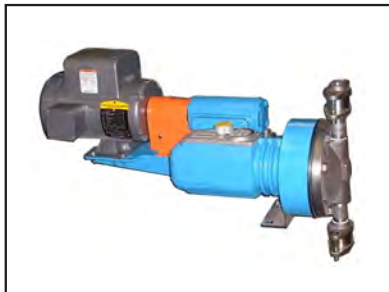
JN Series - 6 Models

- Output from 1 to 11 GPH
- Pressure to 250 psi.
- Simplex, Duplex, and Triplex models available.
- See any JN data sheet for details.



MF Series - 11 Models

- Output from 5 to 75 GPH
- Pressure to 300 psi.
- Simplex, Duplex and Multiplex models available



MH Series - 4 Models

- Output from 96 to 180 GPH
- Pressure to 150 psi.
- Simplex and Duplex models available

Chemical Feed Systems >

- Pre-engineered systems available via our TE series.
- Stainless steel or plastic tanks
- Custom systems available to meet customer specifications
- Includes Madden metering pump, mixer, tank, platform and suction piping
- Boiler water treatment chemicals, waste water chemicals, and many other applications
- See brochure CF16 for details



System shown specifically designed for Boiler Water Treatment

& Metering Pump Accessories:

Variable speed drives, back pressure valves, relief valves, pulsation dampeners, calibration columns and more.

Boiler System Equipment



Continuous Boiler Blowdown Heat Recovery Systems

- Recovers 90% of heat that may be lost from continuous top blowdown flow.
- Pays for itself in a matter of months.
- Compact and durable for years of tough service with minimal attention to repairs.
- Complete with drain valve, heat exchanger, flash tank relief valve and gauges.
- 3 different styles to choose from.
- 19 standard models from 2,000 to 50,000 PPH of blowdown flow.
- Hundreds of units in service for over 50 years.
- See any Heat Recovery system data sheet for details.

Sample Coolers

- Cools hot condensate and blowdown water so chemical analysis and instrument monitoring can be done.
- 14 models, up to 5,000 psi coil rating
- Copper and stainless steel coils
- Durable, repairable
- See SC-18-color data sheet for more details



Orifice Meter for Continuous Boiler Blowdown Flow Control

- Precise, repeatable flow control of hot, dirty top blowdown water.
- Two designs, a 250 PSI model and 650 PSI model.
- (4) orifice plate sizes, each with 17 different set points to control blowdown flow.
- Built-in strainer and flush valve
- Stays accurate for a minimum of 10 years
- Better control reduces chemical costs and improves water and steam quality
- See OM_datasheet_2016 for more details.

Boiler Bottom Blowdown Flash Tanks, Separators and After Coolers

- Rugged equipment to cool intermittent boiler blowdown for discharge to sewer systems
- Enables operator to meet thermal discharge limits
- Standard systems for boilers up to 300 psi include flash separator, aftercooler, temperature gauge and temperature activated cooling water valve
- Custom engineered systems to customer's conditions or specification, see brochure BDS16-separator_tank_brochure



Boiler Water Treatment: Full Chemical Metering Systems

Madden offers a standard chemical feed system for boiler water treatment to be used with many boiler room designs. Our standard design consists of (3) LDPE 100 gallon holding tanks, (3) JN102A chemical metering pumps, (3) high speed mixers, and an on/off control panel, all mounted on one structural steel skid. Many additional items are available upon request. (See picture on front side for reference)

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