

Chemical Dosing Systems

"Everything from A to Z!"



Acid dosing systems



Corrosive chemical dosing systems



ATEX certified dosing systems



Chemical dosing systems when precision is a must!



"Complete solutions from design, on-site installation, and commissioning to spare parts supply."



"Reliable and long-lasting designs, fully compliant with all safety standards."



Chemical Dosing Systems

*ATEX Certified
Chemical Dosing System*



- Ex-proof, ATEX certified for Zone 0, Zone 1, Zone 2
- Capacity range 2–15 l/h, operating pressure 16 bar
- Very precise flow control with Coriolis type flowmeter
- Dosing pumps in compliance with API675 standards
- Continuous dosing with redundant active pump
- On/off local control and remote start/stop capability
- Precise flow adjustment with pneumatically controlled valve
- Specially designed discharge and suction lines made of SS316L
- Temperature measurement with thermowell housing
- Manual line valves; ball type, SS316L body, PTFE gasket, as per ASME standards, 300 lb
- Chemical tank with carbon steel legs, made of SS304 material, 5-ton capacity
- Magnetic level indicator and radar-type level control on the tank
- Pump dry-run protection with low-level controlled pump trip circuit
- Tank mixer with 3 kW, 380 VAC motor, 150 rpm, SS316L shaft and impeller

Chemical Dosing Systems

FeCl_3 Dosing System



- Capacity range 10–60 l/h
- Operating pressure 10 bar
- EF-welded HDPE discharge and suction line for corrosive fluids
- Valves with U-PVC body and Viton gasket
- Manual flow adjustment, Grundfos brand chemical dosing pumps
- 2+1 active redundant piping for uninterrupted dual dosing line feeding in case of failure
- Pressure relief valve with U-PVC body and PTFE diaphragm
- Suction manifold made of HDPE material for 3 pumps
- Drain valves on discharge and suction lines for easy maintenance
- Pump mounting base with epoxy paint applied on carbon steel chassis for corrosion resistance
- Springless check valves suitable for corrosive chemicals on pump discharge lines to prevent backpressure
- Specially manufactured pulsation damper and safety valve with U-PVC body and connections, installed on discharge line for pulse damping and linear flow

Chemical Dosing Systems

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- Caustic soda dosing system
- Capacity 110 l/h
- Operating pressure: 40 bar
- Ex-proof, ATEX certified
- On/off controlled Ex-proof ATEX Ex de IIC T6 local control panel
- Hydraulic diaphragm Ex-proof dosing pumps
- In compliance with ASME standards
- SS316 support skid
- SS316 socket-welded fittings
- Transparent PVC body calibration cylinders for manual flow adjustment
- SS316 body pulsation dampers installed for linear flow
- Pump on/off, fault, and alarm signal outputs for DCS/SCADA integration

Chemical Dosing Systems

ATEX Certified Chemical Dosing System



- Base-welded carbon steel housing
- Jotun brand special marine coating for high corrosion resistance in offshore and coastal environments
- Specially designed closed skid for outdoor installation
- Sliding polycarbonate front panel to protect against outdoor conditions and eliminate chemical splash risk to personnel
- Specially designed polycarbonate valve operation covers, minimizing contact with chemicals
- Dual-point tandem ORP measurement and analysis system for maximum dosing accuracy and precise chlorine setpoint control
- Automatic chemical dosing based on measured analysis values, ensuring low chemical consumption and accurate results
- Local/remote selection for both remote operation and on-site dosing adjustments
- EF-welded HDPE fittings and piping for suction and discharge lines, resistant to corrosion
- 3 dosing tanks, each 2 tons, made of LDPE material
- Easy tank refilling with air diaphragm transfer pump
- ATEX-certified electrical equipment for explosion-proof environments, ensuring high protection against ignition risks
- Local control panel with aluminum cast body, suitable for Zone 1 areas
- Integrated chemical drip tray and drainage system
- Calibration cylinder for instant verification of dosing quantity and precise adjustment
- Safety valves returning chemical to the dosing tank in case of high pressure
- Pressure transmitter for monitoring pressure, system shutdown, and alarm functions
- Real-time tank level monitoring to stop pumps automatically and prevent dry running when chemical reaches low level
- Pulsation dampers for linear flow and precise dosing
- Pressure loading valve to improve pulse damping performance and prevent siphoning
- Separate junction box for analog and digital signals, ensuring organized and error-free signal transmission

Chemical Dosing Systems

*Chemical Dosing System
When Precision is a Must!*



- Activated carbon test and analysing system
- Capacity range 2–10 l/h
- Operating pressure 10 bar
- Capability to perform 4 different tests simultaneously
- In compliance with ASME standards
- Contact-type pressure gauges for lower and upper pressure limit control
- Flow adjustment and setpoint control with rotameter
- Monopump for high precision and linear dosing
- Flow adjustment via electrically controlled touch HMI panel
- Reporting of pressure, flow, operating times, and fault records
- RS232 connection for remote monitoring and control
- Quick coupling system for fast and easy activated carbon replacement
- Special filtration system to prevent carbon particles from escaping into the line from reactors
- Continuous water circulation tank with low-level control to prevent pumps from running dry
- SS316L forged steel let-lok system piping and valves with high-pressure resistance

Chemical Dosing Systems

*Chemical Dosing System
When Precision is a Must!*



- Low-Cost preparation and dosing system for two chemicals
- Capacity range 0–10 l/h, operating pressure 6 bar
- On/off controlled corrosion-resistant ABS material control panel, IP65 protection class compliant
- Two dosing tanks of 350 L capacity each with high-speed mixers for chemical preparation
- Calibration cylinder for verifying pump capacity accuracy
- Corrosion-resistant PP housing pressure gauges with diaphragm isolators on discharge line
- Flow switches on discharge lines for monitoring flow regularity and alarm system in case of no flow
- Overflow prevention via level indicator glass and overflow line on dosing tanks
- Automatic water inlet control for dosing tanks
- Welded carrier skid made of SS304 box profile
- U-PVC piping and fittings for corrosion resistance