

Accudyne
INDUSTRIES

MILTON ROY

COMPANY PROFILE



Accudyne Industries India Private Limited

(formerly Milton Roy India Private Limited)

Accudyne Industries India Private Limited, a manufacturer of Milton Roy Products is a subsidiary of Accudyne Industries, USA, which was formerly known as Milton Roy LLC was founded in 1936 and has more than 1000 employees; registered head office is at USA and having manufacturing facilities at USA, China, France and India with a diversified product range for industrial applications.

Accudyne industries India Manufacturing Plant in Chengalpet manufactures Milton Roy Metering Pumps, Agitators, Pinch Valves, Polymer Preparation Unit and Chemical Dosing Systems for industrial applications and caters to many reputed organizations in India and abroad.

Water treatment sector being our mainstay, our offerings encompass major industries and varied applications such as Water and Effluent Treatment, Chemical, Petrochemical, Steel, Cement, Refining, Oil & Gas, Paper, Sugar, Power Plants, Mining, Agriculture, Food Processing and Pharmaceutical Industries.

Accudyne Industries India has an Export Oriented Unit. The products are exported to Europe, China, Asia Pacific, Australia and Middle East.

Accudyne Industries India's manufacturing facility for Milton Roy Products is one among their world class units as per the international standard and has been constructed to meet the LEED certification and also is certified for ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001:2007.

Accudyne Industries Brand Milton Roy, being a market leader in Metering Pumps and Systems has carved a niche in the Industry by serving to the utmost satisfaction of their customers, through quality product offerings, innovative tailor-made skids and systems with prompt after-sales support.

Accudyne Industries Brand Milton Roy has its presence for more than 25 Years, serving 3000 plus satisfied customers, having over 300,000 Metering Pumps in operation for various applications.

Accudyne Industries India has dedicated design and development department works constantly on new product developments and improving existing products based on Customer's Feedback, incorporating the concept of Eco Design and Energy Efficiency for Milton Roy products.

Accudyne Industries India has an integrated projects department formed by experienced group of application engineers, respond to customer's specifications with quality design and system construction for Milton Roy Products.

Vision

CUSTOMER DELIGHT through excellence in operation and sales support services

Our core principles:

- » **B**usiness Ethics
- » **A**chieving Competitive Excellence
- » **S**ocial Responsibility
- » **E**nvironment, Health and Safety

enable us to provide the competitive advantage for profitable revenue growth and to ensure employee satisfaction.

Quality Policy

Accudyne Industries India is dedicated to constantly improving the total quality of our business providing a level of quality in our products and services that exceeds the needs of our customers.

We will do this by having a clear understanding of our ever changing marketplace, making frequent evaluations of our procedures and processes, and continually communicating the absolute importance of our quality to our employees and suppliers.

Our Products

Metering Pumps

The metering pump is a positive displacement chemical dosing device with the ability to vary capacity manually and automatically as process condition required. It features a high level of repetitive accuracy and is capable of pumping a wide range of chemicals, including acids, bases, corrosive or viscous liquids and slurries.

Chemical Dosing Systems

Accudyne Industries India manufactures Milton Roy customized modular dosing systems for varied applications. These Systems include HP & LP dosing system for power plant, chemical injection package for offshore and onshore Oil and Gas applications, chemical dosing for water and effluent treatment plant and process chemical dosing for refineries, petrochemical and chemical industries.

It can have liquid or powder dosing functions, mixing functions and include measurement, regulation, automation and control systems.

Quality System

Accudyne Industries India drives a demanding continuous improvement approach to quality, aiming to achieve utmost customer satisfaction. Accudyne Industries India follows a world class process oriented Quality Management System that has yielded registration with renowned Customers, Consultants and Engineering contractors.

All components conform to internationally recognize stringent quality standards and testing procedures in line with our Principal. Renowned inspection Agencies like CEIL, LRIS, BHEL, Jacobs H&G, DNV, TUV etc., are our third party Inspection Agencies.

Milton Roy holds ISO 9001 certification since 1997.

Products

✓	Electro Magnetic
✓	Diaphragm
✓	Hydraulically Actuated
✓	Packed Plunger
✓	Polymer Preparation Units
✓	Pinch Valve
✓	Controllers for Automation
✓	Modular Dosing Pumps
✓	Agitators
✓	Dosatron
✓	Haskel High Pressure Pumps & Valves
✓	Air Operated Metering Pumps
✓	Custom-Designed Dosing Systems

Products:

Electro Magnetic Type



Series - A



Series - B



Series - D



Series - V



Series - E

Pressure (bar)



Flow (lph)



Features

- Compact, light weight, economical
- Corrosion resistant GFPP enclosure for Series A, B, D & V pumps
- Liquid end options PP, PVC, PVDF & SS 316
- Composite Fluorofilm diaphragm for reliable and leak proof operation
- Fully encapsulated electronic circuits
- Explosion proof pumps (Series E) available
- Built-in low level switch option available
- External control by pulse or 4-20mA available in Series A, B & D

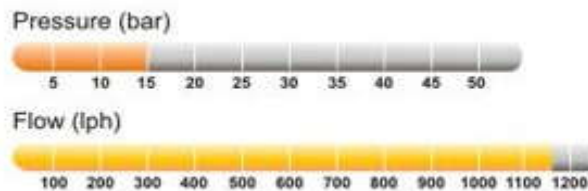
Diaphragm



M - Series



GB - Series



Series - M

- Epoxy coated aluminium housing
- Stroke adjustment by cam and spring return mechanism
- Optional automatic control (stroke length/speed)
- Liquid end options PP, PVC, PVDF & SS 316
- Composite Fluorofilm diaphragm for reliable and leak proof operation

Series - GB

- Stroke adjustment by variable eccentric
- Low pulsations (without hydraulic shocks)
- Few mechanically moving components : low maintenance
- Superior imported Gylon diaphragm for longer life
- Oil bath lubrication for all drive components
- Precision stroke adjustment by lock able icrometer

Hydraulically Actuated

MROY - Series



MROY - Series

Pressure (bar)



Flow (lph)



- An innovative technology concept
- Low and high pressure versions available
- Single diaphragm (standard)
- Double diaphragm with rupture detection facility (optional)
- Optional automatic control (stroke length/speed)
- Conforms to API 675 standard

MAXROY - Series



MAXROY - Series

Pressure (bar)

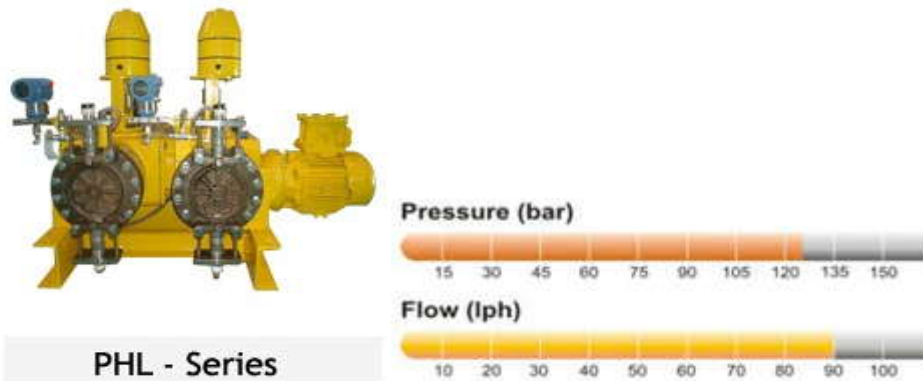


Flow (lph) with duplex



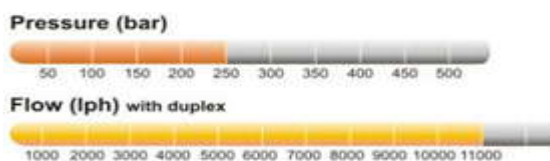
- Low pressure industrial pump
- Single diaphragm (standard)
- Double diaphragm with rupture detection facility (optional)
- Optional automatic control (stroke length/speed)
- Long life diaphragms
- Conforms to API 675 standard
- Available in duplex and triplex version.

PHL - Series



- Conforms to API 675 Standards
- Hydraulically driven high performance diaphragm liquid end
- Steady State Accuracy of +1% if rated flow
- Repeatability +3%
- Linearity +3%
- Turn Down Ratio 10:1
- Accurate flow adjustment through 10 Turn Knob rotation
- Amplitude modulated positive stroke return by Sliding Crank mechanism
- Robust Cast Iron construction
- Stroke adjustment : Can be adjusted while pump is running or stopped
- Oil bath lubrication for all drive components
- High precision Check Valves
- Maximum Liquid Temperature upto 150°C
- Capacity adjustment by
 1. Lockable micrometer stroke adjustment(Std)
 2. Variable Speed Drive (Optional)
- Liquid end Material of Construction in SS-316, other materials on request
- End connections available in both threaded & Flanged versions

Packed Plunger - Dosing Pumps



- Stroke adjustment by variable eccentric
- Low pulsations
- Conforms to API 675 standard
- Few mechanically moving components : low maintenance
- Optional automatic control (stroke length/speed)
- Ideally suited for HP and LP dosing systems

Polymer Preparation Units

Polypack AP



Polypack - AP

- Continuous and automatic preparation of polymers (powder)
- Compact and functional, suitable for pallet loading
- Control of maturing time
- Many configurations and options
- 3-compartment tank with 1 to 3 mixers
- A system to "wet" the powder by water flow
- Concentrations up to 5 g/l and higher Extraction/dosing flow upto 6660 l/h

Applications

- Flocculation for industrial and domestic water treatment
- Sludge treatment
- Applications in chemical, iron and steel, food & paper industries

Pinch Valves



Features

- Direct flow with no loss of head
- Bubble free tightness even with the wettest liquids
- Viscous or paste-like liquids pass with no choking or blocking
- Abrasive material cause no damages
- No moving parts; hence no maintenance
- Self-cleaning; will not jam or seize

Applications

- Waste water, slurries
- Sludge extraction
- Pneumatic conveying (powdered products, granules, cereals)
- Cleaning water or pulp transfer (sugar refineries).

PRIMERROYAL DOSING PUMP:



Features :

Wide flow rate/pressure range

- Flow rate from 0.1 l/h to more than 70,000 l/h
- Flow rate accuracy: micrometric system for stroke adjustment
- Up to 930 bar
- Multiplexing possible up to 10 heads

Unlimited adaptability to suit your processes

- Compliance with the API 675 standard
- Flow rate accuracy and stability $\pm 1\%$, even for very low flow rates and high pressures
- Diaphragm liquid ends guaranteed leakproof
- Operation under the most extreme conditions
- Wide selection of liquid ends and options
- Modular design for customised dosing (fully adapted to your specifications, even the most complex)
- Mechanism without stroke adjustment available on request
- Can be integrated in a chemical injection package.

Applications

- Oil and Gas
- Chemical and petrochemical industries.

AGITATORS:

NA		liquid/ liquid	liquid/ solid	example of operation
1	WEAK AGITATION STORAGE	not recommended	not recommended	not recommended
2		mixing with $\Delta\rho < 0,1$	particles are moving on the bottom	storage denitrification polyelectrolyte
3		or $r\mu < 100$		
4	MEDIUM AGITATION HOMOGENEZATION	easy homogeneization	easy dissolution (sugar)	lime milk storage sugar dissolving neutralization
5		mixing with $\Delta\rho < 0,6$	off bottom suspension: sol.conc. < 5%, < 100 μm & solid density < 3	lime milk preparing < 20% moderate heat transfer
6		difficult homogeneization or $r\mu < 10000$		lime milk preparing < 30% flash mixing with 60w/m3
7	STRONG AGITATION	mixing with $\Delta\rho < 1$	suspension nearly homoeeous sol. conc. < 10%, < 300 μm & solid density < 3	high heat transfer difficult dissolution lime hydratation
8		or $r\mu < 100000$		
9				
10				

rμ = viscosity ratio between liquids, Δρ = density difference.



Custom - Designed Dosing Systems

Features:

Systems range from a basic single pump with manifold piping on a base plate, to multiple tanks and pumps piped on a common skid with complete controls. Designs cover a wide range of capacities and materials to suit any application and industrial environment.

Design:

Milton Roy has extensive experience in packaged systems. We can custom-build system to supplied specifications or assist with the design of a dependable, totally integrated package.

Documentation:

Every system manufactured at Milton Roy includes complete documentation. This encompasses custom system drawings produced using the latest in CAD packages, and can range from:

- General Arrangement
- Fabrication
- Piping Isometrics
- Electrical & Instrumentation

A portion of all custom system documentation pertains to inspection and testing, and this meets Milton Roy's stringent quality assurance requirements.

System Components:

Accudyne Industries India offers a variety of components that can be integrated into your required systems. These include:

- Milton Roy Metering pumps and Milton Roy Accessories :
 - Relief / Back pressure valves
 - Pulsation Dampeners
 - Calibration columns, etc.
 - Flow meters
- Tanks in stainless steel, steel and polyethylene
- Tank Accessories
- Skids and pumps baseplates
- Electrical control panels
- Mixers
- Various sensors and indicators

System Applications:

Accudyne Industries India has designed and built Milton Roy systems for a variety of applications such as :

- Water Treatment
- Chemical Injections packages for Oil and Gas.
- Boiler chemicals
- Process additives

APPLICATION:

We have developed a high level of expertise in the energy, gas and oil industries, petrochemicals and water treatment etc. We also cater for any sectors, such as primary chemicals, the pulp and paper industry and surface treatment.



Drinking Water



Waste Water Treatment



Power Plants



Speciality Chemicals



Industrial Effluent
Treatment Plants



Oil & Gas Industries



Offshore Platforms



Sugar & Fertiliser
Industries



Chemical Process
Industries



Food Processing Industry



Agriculture



Pulp and Paper



Textile Industries



Pharmaceutical Industries



Refinery & Petrochemical
Industries



Water Treatment for
Boilers



Cooling Towers



BRO, DM Plants

MAJOR CUSTOMERS

1. VA Tech Wabag Limited
2. Reliance Industries Limited
3. Bharat Petroleum Corporation Limited
4. Engineers India Limited
5. Themax Limited
6. Ion Exchange India Limited
7. Suez Water formerly known as Degremont Limited
8. Pennar Enviro
9. Aqua Designs India Private Limited
10. UEM India Private Limited
11. Larsen & Toubro Limited
12. Triveni Engineering & Industries Limited
13. Pratibha Industries Limited
14. Driplex Water Engineering Limited
15. Technofab Engineering Limited
16. Perfect Equipments
17. McNally Sayaji Engineering Limited
18. Wipro Limited (Wipro Water)
19. GE India Industrial Limited
20. Ramky Enviro Engineers Limited
21. Veolia Water (India) Pvt. Limited
22. IDE Technologies Limited
23. MIL India Limited
24. Miltech India Private Limited
25. Chemical Systems & Technologies Private Limited

Customer Support

Customer Satisfaction is an utmost priority for Accudyne Industries India. Accudyne Industries India applies its rigorous and innovative approach to overcome industrial challenges.

We have a dedicated team of more than 40 well-trained service engineers across the country with a response time of 24 hours.

Accudyne Industries India periodically conducts various Milton Roy product trainings for customers for improved productivity.

Accudyne Industries India maintains a strategic inventory of spare parts across the country for quicker response to the customer needs.



Contact Us:

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(formerly Milton Roy India Private Limited)

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