INFIDOSE

Mechanicaly Operated
DOSING CHEMICAL PUMP

INDIA'S MOST TRUSTED
I M DP SERIES

www.infinityequipments.com

I-M-DP Series

INFIDOSE

MATERIAL OF CONSTRUCTION

Reagent head	PP
Liquid end	PP
NRV seat/cage	PP
NRV ball	GLASS BALL
Seal NRV	PTFE/Teflon
Worm wheel	Phosphorous bronze
Gear Housing	IS210 FG 216 CI
Mounting Base	MS
Coupling guard	PP
Metal Gearbox	Cast Iron

MODULAR CONFIGURATIONS

Turn down ratio *10*: *1*
Accuracy ± *1%* within *10-100%* of rated capacity.
No Welds on Wet End Parts.
Flushing or leakage recovery system can be provided.
Manual stroke length control standard (optional VFD).
Micro-metric stroke adjustment while pump running or stopped...
Available in *variable / fix stroke*
Process Temperature from – *0°C to 80°C*

TECHNICAL SPECIFICATION

Model	INFINITY *I-M-DP 50/100/150/200*
Operating Type	PLUNGER TYPE MECHANIC
Application Standards	API 675 standards
Duty cycle	Continuous
Temperature	ambient
Lubrication type	Oil splash type
Lubricant	460 gear oil

DESIGN SPECIFICATION

Flow rate	0 to 30 LPH stoke adjustable
Suction	flooded
Working pressure	0-30 bar
Design pressure	35 bar
Hydro testing pressure	35 bar
Speed (SPM)	185
Stoke length	10 mm/20 mm
Gear ratio	15:1
Metering control	0-100% Manual with Inbuilt Interlocking Screw
Pump rotation	clockwise
NRV	ball type NRV
Suction discharge size	15 mm BSP (F) threaded type

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MOTOR SPECIFICATION

Motor make	COLIN.
Supply system	IE2 / 3PHASE INDUCTION/AC 380 V/50Hz
Rating (KW/HP)	0.5/2
Speed (RPM)	1440
Mounting	B3 foot mounted
Pole/ protections	4 pole / IP55
Base frame	MS fabricated with paint
Insulation/ enclosure	STD TEFC/IP 55

APPLICATION

Oil & Gas,
Pharmaceuticals,
Power, Chemicals & Fertilizers,
Paper Industries,
Water, Waste Water Treatment, ETP & STP,
Petrochemicals,
Paints,
Steel,
Detergents,
Cosmetics,
Food & Beverages,
Nuclear Reactor,
Textiles,
Mines,
Institutes,
Consultancy Agencies

MODELS VS SPECIFICATION

PP (POLY PROPYLENE)

MODEL	*CAPACITY*	*PRESSURE*	*STROKE*	*POWER*
I-M-DP 50 PP	0-50 LPH	0-08 BAR	10 mm	0.5HP / 0.37KW
I-M-DP 100 PP	0-100 LPH	0-08 BAR	10 mm	0.5HP / 0.37KW
I-M-DP 150 PP	0-150 LPH	0-08 BAR	10 mm	0.5HP / 0.37KW
I-M-DP 200 PP	0-200 LPH	0-08 BAR	10 mm	0.5HP / 0.37KW
I-M-DP 500 PP	0-500 LPH	0-08 BAR	10 mm	0.5HP / 0.37KW

MECHANICAL TYPE METERING CHEMICAL DOSING PUMP

Designed For Large-Capacity, High Flow, High pressure Applications
INFINITY introduce *I-M-DP Series* plunger type chemical dosing pumps draws a fixed volume
Of a chemical into the chamber, and then injects it into a pipe or a tank that may contain water
Or fluid to be dosed. The pump is driven by an air actuator or an electric motor.

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MAJOR *ADVANTAGES*

Simple Design, easy to operate
Zero leakage Low NPSHR design
Flame Proof design
Oil bath splash type lubrication for longer life
Economical & maintenance free
Variable eccentric design to prevent hydraulic shock
Stroke adjustment can be adjusted while pump is
Running or stopped
Designed for Flow volumes *up to 7000 LPH*
Fine-grained capacity adjustment through lockable
Micrometer stroke adjustment mechanism
Oil bath lubrication for all drive components
High strength and corrosion *resistance material* used
PTFE Valve seat ensures long life under most
Demanding application
Wetted parts suitable for *most aggressive chemicals*
Heavy duty construction designed for several Industrial
Applications Internal *worm gear* mechanism
Low investment cost
High *volumetric efficiency* and *metering accuracy* achieved
Wide choice of wetted materials: *PP (POLY PROPYLENE)*
INBILT NON RETURN VALVE WITH *GLASS BALL*
Other materials available upon request

PRESSURE *RANGE*

PP (POLY PROPYLENE) head standard pressure up to 300 kg/cm2
Special head up to 1000 kg/cm2
0 TO 8 BAR

FLOW *RANGE*

100 ml/hr. to 7000 LPH
Higher capacities can be achieved by multiplexing head

TEMPERATURE *RANGE*

0 TO 80 Degree Celsius