



**INFIDOSE** ▶▶

## PREMIUM QUALITY INDUSTRIAL DOSING PUMP



# INFINITY



**IDP ▶▶**  
**REGULER**

**STAR**  
SERIES

**PLUS**  
SERIES

**INFIDOSE ▶▶**  
**PRO SERIES**

  
**INFINITY**

●●● **MADE**  
○●○ **IN**  
●●● **INDIA**

[www.infinityequipments.com](http://www.infinityequipments.com)

SPECIAL FEATURES

- ▶ ZERO LEAKAGE DESIGN.
- ▶ AUX OUTPUT RLY FOR FURTHER AUTOMATION.
- ▶ LED DISPLAY, INTUITIVE AND CONVENIENT TO USE.
- ▶ GLASS BALL DOUBLE BALL NRV'S ENSURE LONG LIFE.
- ▶ INBUILT AUTO REST FUSE & AIR RELEASE VALVE (ARV).
- ▶ PUMPS TESTED AT PRESSURE OF 9 BARS BACK PRESSURE.
- ▶ WETTED PARTS SUITABLE FOR MOST AGGRESSIVE CHEMICALS.
- ▶ HIGH STRENGTH AND CORROSION RESISTANCE MATERIAL USED.
- ▶ WORLD CLASS NEXT GENERATION CE & ROHS CERTIFIED DOSING PUMP.
- ▶ EPOXY COATED MICROPROCESSOR BASED PCB 5 TIMES MORE RELIABLE.
- ▶ LOW LEVEL TRIPPING & DRY RUN PROTECTION FACILITY IN IDP+ SERIES.
- ▶ PTFE FLEXIBLE DIAPHRAGM AND VALVE SEAT ENSURES LONG LIFE UNDER MOST DEMANDING APPLICATION.
- ▶ WIDE OPERATING VOLTAGE RANGE (180-280V) AUTO VOLTAGE COMPENSATION TO ENSURE DOSING CONSISTENCY.

TECHNICAL SPECIFICATION

| MODEL SERIES                        |                                           |                                                                                                     |  |                                                                                                      |                          |                                                                                                      |       |                                                                                                      |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| OPERATING TYPE                      | Analog (Knob) Operated                                                                                                       |                                                                                                     | With membrane switch, High Accurate Digital Display                                 |                                                                                                      | Low Level Sensor Dry Run Protection<br>Aux Output For Further Automation.<br>High Accurate Digital Display, |                                                                                                      | 4-20 mA communication for Automatic dosing feature inbuilt, High Accurate Digital Display. |                                                                                                      |
| MECHANICAL                          | Dosing Capacity<br>Max. Operating Pressure<br>Max. Stoke Per Min. M                                                          |                                                                                                     | 0.2-21 LPH<br>0 - 7 Bar<br>0 - 400 SPM                                              |                                                                                                      | 0.2-21 LPH<br>0 - 7 Bar<br>0 - 400 SPM                                                                      |                                                                                                      | 0.2-21 LPH<br>0 - 7 Bar<br>0 - 400 SPM                                                     |                                                                                                      |
| ELECTRICAL                          | Voltage<br>Length Of Main Cable<br>Max. Power Consumption<br>Electric Safety Class<br>Pollution Degree<br>Ingress Protection |                                                                                                     | V 230 (+/- 35%) 50 HZ<br>M 2<br>W 30<br>- 2<br>- 3<br>IP 65                         |                                                                                                      | V 230 (+/- 35%) 50 HZ<br>M 2<br>W 30<br>- 2<br>- 3<br>IP 65                                                 |                                                                                                      | V 230 (+/- 35%) 50 HZ<br>M 2<br>W 30<br>- 2<br>- 3<br>IP 65                                |                                                                                                      |
| SOUND                               | Max. Sound Pressure Level                                                                                                    |                                                                                                     | dB < 60                                                                             |                                                                                                      | dB < 60                                                                                                     |                                                                                                      | dB < 60                                                                                    |                                                                                                      |
| MOC METAL PARTS                     | Plunger<br>Copper Insulation Class                                                                                           |                                                                                                     | SS 304<br>Class-H                                                                   |                                                                                                      | SS 304<br>Class-H                                                                                           |                                                                                                      | SS 304<br>Class-H                                                                          |                                                                                                      |
| MOC OF DOSING CHEMICAL WETTED PARTS | PP                                                                                                                           | Head, injection & PP GF/N GF foot valve<br>Tube : 6/4mm LDPE<br>Seal : NBR<br>Diaphragm : PTFE Soft | PP                                                                                  | Head, injection & PP GF/N GF foot valve<br>Tube : 6/4mm LDPE<br>Seal : NBR<br>Diaphragm : PTFE Solid | PP                                                                                                          | Head, injection & PP GF/N GF foot valve<br>Tube : 6/4mm LDPE<br>Seal : NBR<br>Diaphragm : PTFE Solid | PP                                                                                         | Head, injection & PP GF/N GF foot valve<br>Tube : 6/4mm LDPE<br>Seal : NBR<br>Diaphragm : PTFE Solid |
|                                     | PVDF                                                                                                                         | Head, injection : PVDF & foot valve<br>Tube : 6/4mm PVDF<br>Seal : VITON<br>Diaphragm : PVDF        | PVDF                                                                                | Head, injection : PVDF & foot valve<br>Tube : 6/4mm PVDF<br>Seal : VITON<br>Diaphragm : PVDF         | PVDF                                                                                                        | Head, injection : PVDF & foot valve<br>Tube : 6/4mm PVDF<br>Seal : VITON<br>Diaphragm : PVDF         | PVDF                                                                                       | Head, injection : PVDF & foot valve<br>Tube : 6/4mm PVDF<br>Seal : VITON<br>Diaphragm : PVDF         |
| DOSING CHEMICAL COMPATIBILITY       | PP                                                                                                                           | To Dose Low And Average Concentrated Ph Solution.                                                   | PP                                                                                  | To Dose Low And Average Concentrated Ph Solution.                                                    | PP                                                                                                          | To Dose Low And Average Concentrated Ph Solution.                                                    | PP                                                                                         | To Dose Low And Average Concentrated Ph Solution.                                                    |
|                                     | PVDF                                                                                                                         | To Dose Highly Acidic Or Basic Concentrated Ph Solution.                                            | PVDF                                                                                | To Dose Highly Acidic Or Basic Concentrated Ph Solution.                                             | PVDF                                                                                                        | To Dose Highly Acidic Or Basic Concentrated Ph Solution.                                             | PVDF                                                                                       | To Dose Highly Acidic Or Basic Concentrated Ph Solution.                                             |

PERFORMANCE CHART

| INFINITY<br>IDP<br>SERIES      MODEL |       | INTELLIGENT CHEMICAL DOSING PUMP                   |                                          |                                          |                                              |
|--------------------------------------|-------|----------------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------|
|                                      |       | IDP 1.5<br>HA IDP 1.5<br>IDP 1.5 +<br>HA IDP 1.5 + | IDP 3<br>HA IDP 3<br>IDP 3+<br>HA IDP 3+ | IDP 6<br>HA IDP 6<br>IDP 6+<br>HA IDP 6+ | IDP 10<br>HA IDP 10<br>IDP 10+<br>HA IDP 10+ |
| PRESSURE Δ P<br>(BAR)                | 0 BAR | FLOW RATE (LPH)*                                   |                                          |                                          |                                              |
|                                      | 1 BAR | 4.9 LPH                                            | 12.2 LPH                                 | 21 LPH                                   | 27.2 LPH                                     |
|                                      | 2 BAR | 2.0 LPH                                            | 4.9 LPH                                  | 12.5 LPH                                 | 16.3 LPH                                     |
|                                      | 3 BAR | 1.9 LPH                                            | 4.4 LPH                                  | 9.6 LPH                                  | 13.4 LPH                                     |
|                                      | 4 BAR | 1.7 LPH                                            | 3.8 LPH                                  | 8.5 LPH                                  | 11.7 LPH                                     |
|                                      | 5 BAR | 1.6 LPH                                            | 3.4 LPH                                  | 7.4 LPH                                  | 10.8 LPH                                     |
|                                      | 6 BAR | 1.2 LPH                                            | 2.8 LPH                                  | 6.9 LPH                                  | 9.3 LPH                                      |
|                                      | 7 BAR | 0.8 LPH                                            | 1.7 LPH                                  | 6.1 LPH                                  | 7.8 LPH                                      |
|                                      | 7 BAR | 0.3 LPH                                            | 0.9 LPH                                  | 4.7 LPH                                  | 6.1 LPH                                      |
| STROKE PER MIN                       |       | 60 SPM                                             | 130 SPM                                  | 240 SPM                                  | 375 SPM                                      |

APPLICATION

- Chemical industries

► Medical

► Laboratory and Analysis

► Swimming Pools
- Water Treatment

► Drinking Water

► Disinfection

► Reverse Osmosis



MINRAL WATER  
PLANTS



BEVERAGE  
INDUSTRY



LIQUID WASTE  
MANAGEMENT



PHARMA &  
CHEMICAL



PULP & PAPER  
INDUSTRY



SWIMMING  
POOL

ACCESSORIES



Suction Filter  
(Foot valve)



Injection  
check valve

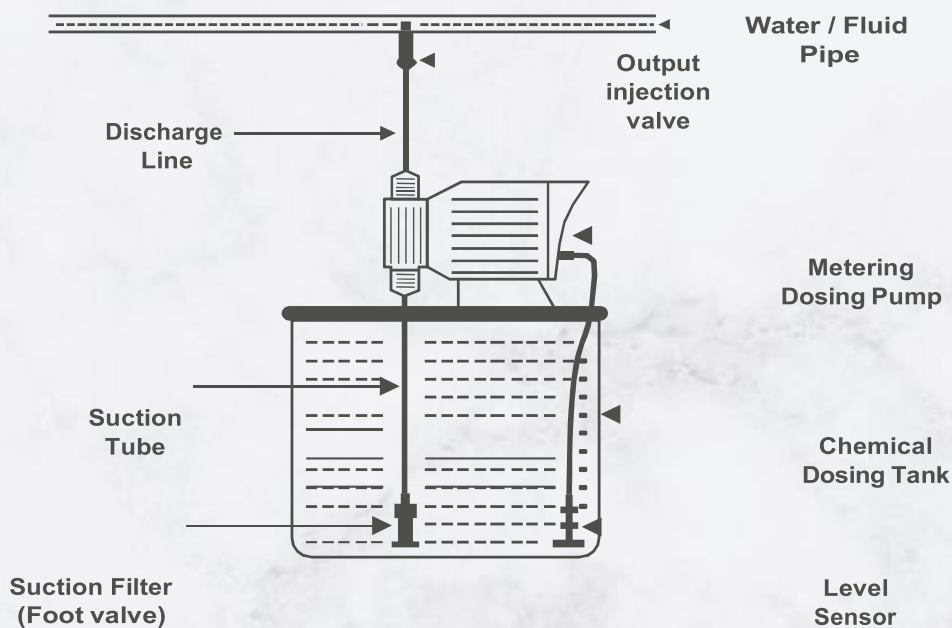


Level  
Sensor

## SCOPE OF SUPPLY

- ▶ **Chemical Metering Pump**
- ▶ **3 Meter Suction** Discharge tubing
- ▶ **Suction Filter** cum Foot Valve
- ▶ **Injection Valve**
- ▶ **O & M Manual**

## INSTALLATION DIAGRAM



- ▶ Mount the pump on a tank and any other flat surface and fix using the nut bolts provided.
- ▶ Cut the Suction tubing provided to the desired length (**Max. 1.5m**) and ensure that the Suction filter remains Vertical and always immersed in solution.
- ▶ Use the remainder of the tubing to connect to the discharge side of the pump at one end, connect other end of the tube to the injection valve Supplied.
- ▶ Connect the Injection Valve to the Pipe in to which dosing is to be done.
- ▶ Connect the power cable of pump to a **230V A.C.** electrical supply.
- ▶ Before starting the pump ensure that the suction filter is fully immersed in solution. Then set the frequency knob to **100%** and switch on the Pump with **ON/OFF** switch.
- ▶ When starting for the first time, open the air release valve to release air from the system and close it once solution starts flowing out steadily.
- ▶ Then set frequency to the required percentage depending on the desired dosing rate.