



**MDSP**  
TM No.: 4922576

# **MINI DOSE**

## **SOLUTION PUMPS**

AN ISO 9001 : 2015 CERTIFIED COMPANY



***Deliver Quality Products & Services Consistently***



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## SOLENOID ACTUATED DIAPHRAGM PUMP

It is a Mini Dose displacement diaphragm metering pump operating at 230V 50Hz supply. It is base mountable. Solenoid pushes the diaphragm which in turn pushes the liquid to system. Solenoid is actuated by a solid state electronic circuit. It has two controls for the desired accuracy of the dosing.



## SALIENT FEATURES

### ELECTRONIC CIRCUIT

State of art electronic circuit (protectively coated with epoxy) is virtually unaffected by temp, EMI & other electric disturbances. Liquid Head & Housing : An all plastic housing is resistant to corrosive chemical agents, reliable operation.

### SOLENOID

High quality hot rated solenoid is designed to dissipate heat. Capacities & pressure do not derate even over extended use.

### DIAPHRAGM

Superior diaphragm is designed to ensure long life even under the most demanding application. Teflon faced, metal reinforced diaphragm ensures leak free operation.



## TECHNICAL SPECIFICATIONS

- |                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| 1. Electrical               | : 230v AC (+ or - 20%) 50 Hz                                    |
| 2. Suction Tubing           | : 6 / 8 mm                                                      |
| 3. Discharge Tubing         | : 6 / 8 mm                                                      |
| 4. Dosing Flow Rate         | : 0-4 / 0-6 / 0-8 / 0-10 / 0-15 / 0-20 / LPH & 40 LPH Open Tank |
| 5. Dosing Pressure          | : 10 / 8 / 4 / 3 / 3 Kg/Cm2                                     |
| 6. Stokes / Minutes         | : Max 135, Min : 15                                             |
| 7. Fuse                     | : 600m Amp.                                                     |
| 8. Stoke Controller         | : 0 - 100%                                                      |
| 9. Pulse Controller         | : 0-10%                                                         |
| 10. Pump Head               | : P.P. / PVDF / CFT / LDPE                                      |
| 11. Diaphragm MOC           | : P.T.F.E.                                                      |
| 12. Connectors              | : P.P. / PVDF / CFT / LDPE                                      |
| 13. NRB Ball                | : Ceramic                                                       |
| 14. Suction Tubing's        | : P.P. / PVDF / CFT / LDPE                                      |
| 15. Environment Temperature | : 50° C Max                                                     |
| 16. Power Consumption       | : 50 Watt                                                       |





## MINI DOSE SOLUTION PUMPS

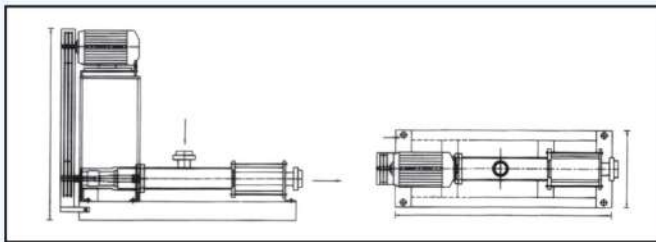
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### FEATURES

- Simplicity of design, easy for maintenance.
- Steady flow without pulsations,
- minimum turbulence
- Temperature range : 500C to 1500C
- Maximum delivery pressure : 30 kg/cm<sup>2</sup>
- Maximum permissible solid content upto 50%

### Materials of Construction being Offered :

- Rotor : Ss304 / SS304L, Ss316 / SS316L, Carbon Steels, Alloy20, Hastelloys, Any other special alloy
- Stator : Nitrile rubber, Viton, EPDM, Neoprene Hyplon



### Applications :



Oil & Gas



Pharmaceuticals



Power



Petrochemicals



Paper Industries



Water, Waste  
Water Sewage



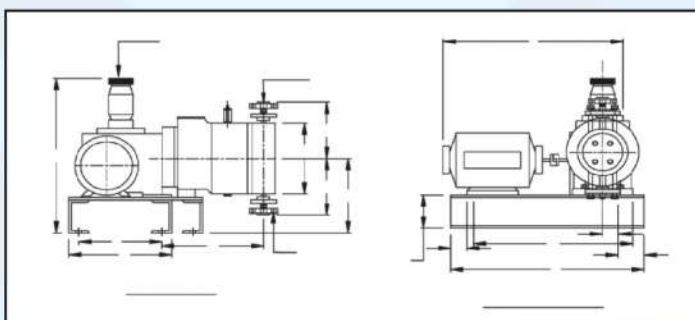
Chemicals &  
Fertilizers



Food &  
Beverages

### KEY DESIGN FEATURES :

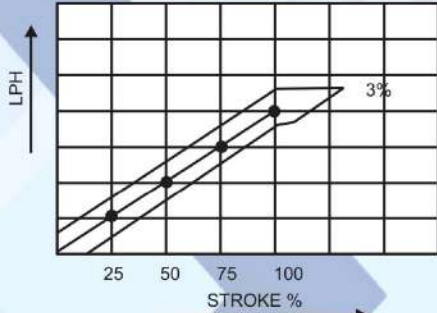
- MINIDOSE make HD type Diaphragm glandless pump, with allow leak free operation, Flow rates of 0 to 10,000 LPH & High discharge pressures of 180.
- Kg/Sq cm can be achieved. Steady state metering accuracy of  $\pm 1\%$  of pump output, at single setting of stroke from 10% - 100%
- Reproducibility (Repeatability) better than  $\pm 1.5\%$  of set point inbuilt pressure Relief & Vacuum valve on the hydraulic side to safeguard system.
- Double diaphragm with rupture indication also available, Easily handles viscous fluids. They are compatible with most of fluids.
- Simplex and Multiplex arrangements of pump available for universal use. Heating or cooling jackets for liquid head is also available.





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PERFORMANCE CURVE



## SELECTION CHART

| PUMP SPEED 100 SPM (NOMINAL)<br>GEAR RATIO 15:1 MOTOR 1440 RPM |                       |                  | MODEL  | Plunger<br>Dia. mm | Max. Pr.<br>Kg/cm <sup>2</sup> | PUMP SPEED 100 SPM (NOMINAL)<br>GEAR RATIO 15:1 MOTOR 1440 RPM |                       |               |
|----------------------------------------------------------------|-----------------------|------------------|--------|--------------------|--------------------------------|----------------------------------------------------------------|-----------------------|---------------|
| Cap.<br>LPH                                                    | Suc. Del.<br>mmNB/BSP | Motor<br>(HP/KW) |        |                    |                                | Cap.<br>LPH                                                    | Suc. Del.<br>mmNB/BSP | Motor (HP/KW) |
| 1.5                                                            | 15                    | 0.5/0.37         | MD - 2 | 6                  | 80                             | 2.8                                                            | 8                     | 0.5/0.37      |
| 2.8                                                            | 15                    |                  |        | 8                  | 80                             | 5                                                              | 8                     |               |
| 4.2                                                            | 15                    |                  |        | 10                 | 80                             | 7.8                                                            | 8                     |               |
| 6                                                              | 15                    |                  |        | 12                 | 80                             | 11.3                                                           | 8                     |               |
| 8                                                              | 15                    |                  |        | 14                 | 80                             | 15                                                             | 8                     |               |
| 11                                                             | 15                    |                  |        | 16                 | 80                             | 20                                                             | 15                    |               |
| 14                                                             | 15                    |                  |        | 18                 | 70                             | 25.4                                                           | 15                    |               |
| 17                                                             | 15                    |                  |        | 20                 | 60                             | 31                                                             | 15                    |               |
| 21                                                             | 15                    |                  |        | 22                 | 58                             | 38                                                             | 15                    |               |
| 24                                                             | 15                    |                  |        | 24                 | 42                             | 45                                                             | 15                    |               |
| 29                                                             | 15                    |                  |        | 26                 | 35                             | 53                                                             | 15                    |               |
| 33                                                             | 15                    |                  |        | 28                 | 31                             | 61                                                             | 15                    |               |
| 38                                                             | 15                    |                  |        | 30                 | 27                             | 71                                                             | 15                    |               |
| 43                                                             | 15                    |                  |        | 32                 | 24                             | 80                                                             | 15                    |               |
| 49                                                             | 15                    |                  |        | 34                 | 20                             | 91                                                             | 15                    |               |
| 55                                                             | 15                    |                  |        | 36                 | 18                             | 102                                                            | 15                    |               |
| 61                                                             | 15                    |                  |        | 38                 | 16                             | 113                                                            | 15                    |               |
| 68                                                             | 15                    |                  |        | 40                 | 15                             | 125                                                            | 15                    |               |
| 75                                                             | 15                    |                  |        | 42                 | 10                             | 138                                                            | 15                    |               |
| 82                                                             | 15                    |                  |        | 44                 | 8                              | 152                                                            | 15                    |               |
| 90                                                             | 15                    |                  |        | 46                 | 7                              | 166                                                            | 15                    |               |
| 98                                                             | 15                    |                  |        | 48                 | 6                              | 200                                                            | 15                    |               |

## MATERIAL OF CONSTRUCTION

|   |            |                                |
|---|------------|--------------------------------|
| 1 | Plunger    | EN 8                           |
| 2 | Liquid End | SS 304, 316, 316 L, HASTEALLOY |
| 3 | NRV        | SS 304, 316, 316 L, HASTEALLOY |

## FEATURES

1. Differrent Flow Rates can be achieved in a single model with stroke adjustment feature.
2. The design & Performance of Hyd Series Pumps conforms to API 675.

## PUMP DIMENSION IN MM

| L   | H   | h  | W   | A   | B  | C   | D  | d  |  |  |
|-----|-----|----|-----|-----|----|-----|----|----|--|--|
| 310 | 285 | 70 | 105 | 165 | 88 | 117 | 65 | 16 |  |  |

With nearly 2 decades of experience, Our Dosing Pumps has emerged as a trusted manufacturer, exporter and supplier of impeccable quality range of Chemical Dosing Pumps. We are the first manufacturer of Dosing Pumps in Delhi. All of the major products manufactured by the company include Electronic Dosing Pumps, Plunger Pumps, Screw Pumps, and several more. These pumps are manufactured using high grade stainless steel, mild steel, brass and copper sourced from reliable vendors in the market. Our company is based in Delhi, which is a large hub of hardware and plumbing materials.



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**DOSING SYSTEM**



**MIXTURE SYSTEM**



### **CAPACITY CHART**

| MODEL         | Max Capacity LPH                | Max Pressure Kg/Cm <sup>2</sup> | Suction Discharge Tubing |
|---------------|---------------------------------|---------------------------------|--------------------------|
| MED - 5       | 6<br>8                          | 4<br>3                          | LDPE Tubing 6/8"         |
| MD -6 / MD-10 | 2<br>4<br>6<br>8<br>10          | 8<br>6<br>4<br>3<br>1           | LDPE Tubing 6/8"         |
| MED 20        | 6<br>15<br>18<br>20<br>25       | 8<br>6<br>4<br>3<br>2           | LDPE Tubing 6/8"         |
| MD 30         | 5<br>15<br>20<br>25<br>30<br>40 | 8<br>6<br>3<br>2<br>1<br>0      | LDPE Tubing 6/8"         |

\* Accessories : NRV, FOOT VALVE / Y-STAINER, TUBING, PRV, OIL will be proved as per model. Specification are subject to change without prior notice due to continues product development programs.



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### INJECTARE



### FOOT VALVE



### Electronic Dosing Pump Accessories

1. Suction & Discharge Tubing of LDPE 6/8 - 4/6
2. Tubing 3.5 Mtrs. in Length.
3. Strainer Cum Injectare Foot Valve.
4. Test Certificate.
5. Warranty Card.

### APPLICATIONS



Industries



Refinery &  
Petrochemicals



Chemicals &  
Fertilizers



Environment  
Protection



Pharmaceuticals



Water, Waste Water  
Sewage



Oil & Gas



Food &  
Beverages



Gas Industries



Paper &  
Pulp



Textile



Mineral Ore  
Processing



Power



Sugar Industries



Paint & Emulsion



Oil Industries

### OUR CLIENTS



JUBILANT  
DRAXIMAGE



Mankind



TATA STEEL

ION EXCHANGE  
*Refreshing the Planet*



## OTHER PRODUCTS



Model : MD 30  
Capacity : 0 to 40 LPH



Model : MED 5  
Capacity : 0 to 10 LPH



Model : MD-27  
Capacity : 0 to 27 LPH  
Pressure : 10 Kg / Cm2



Model : MED-20  
Capacity : 0 to 30 LPH  
Pressure : 3.5 Kg. Cm2



Model : MD-1  
Capacity : 0 to 50 LPH  
Pressure : 5 Kg.



Screw Pump  
with Stand



Model : MD-6 & MD-10  
Capacity : 0 to 10 LPH  
Pressure : 3.5 Kg. Cm2



Model : Diaphragm Pump  
Capacity : 0 to 100 LPH  
Pressure : 5 Kg.



Model : Plunger Pump  
Capacity : 0 to 100 LPH  
Pressure : 5 Kg.



### *Deliver Quality Products :*

The total operation based on certified quality systems and test procedure is based on the global industry standard API 675 & hydraulic institute standard requirement assures guaranteed performance for design safety. We have all materials traceability records. We deliver all orders with necessary documents (Test Certificate and Warranty Card).

### *Application Sectors :*

- Brewing Effluents Treatment • Distillation Water Treatment • Swimming Pools • Water Chlorination • Food Processing • Chemical Effluent • Petro-Chemical • Sewage Treatment • Pulp & Paper • Sugar Industries • Pharmaceutical Plant • Beverages Metal & Steel Plant Paint



# **MINI DOSE SOLUTION PUMPS**

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