TECHNICAL SPECIFICATION

VOLUMETRIC DOSING UNIT (BVD Series)

Permits the dosing continuously or discontinuously of upto 2 products (in granule form) of good free flowing materials

Standard Feature:
- CNC Manufactured with Powder Coated finish
- Highly Accurate Compact DC Geared Motor
- Intermittent as well as continuous operation
- Micro Processor Based Control showing LED indication for operation/status
- Easy to operate, easy to calibrate
- Drain Cover for rapid batch change & clean out
- Digital display of set point of speed & time
- Quick openable latches for motor & screw removal
- Sight glass for checking material level
- Synchronization mode available with extrusion for accurate and reliable output
- Special angled dosing screw to avoid material spillage due to vibration.

Specifications for BVD Series Volumetric Dosers:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SCREW DIA MTR.</th>
<th>MATERIAL THROUGH PUT IN kg/hr. @ 0.56 GMS/ CC BULK DEN SITY</th>
<th>DC MOTOR MOTOR</th>
<th>DC MOTOR Storage Capacity in Volume (ltr.)</th>
<th>DIMENSIONS IN MM L</th>
<th>DIMENSIONS IN MM W</th>
<th>DIMENSIONS IN MM H</th>
<th>MAIN ELECTRICAL CONNECTION</th>
<th>APPROX. SHIPPING WEIGHT IN KG</th>
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<tbody>
<tr>
<td>BVD-2100</td>
<td>10 MM</td>
<td>0.2</td>
<td>75</td>
<td>515</td>
<td>150</td>
<td>325</td>
<td>18</td>
<td>230/1/50 Hz</td>
<td>18</td>
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<td>10 MM</td>
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<td>BVD-8100</td>
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<td>75</td>
<td>515</td>
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<td>325</td>
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ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE
**Dimensional Data**

![Dimensional Diagram]

**Control & Display Panel**

1. DECREASE FEED RATE
2. INCREASE FEED RATE
3. DECREASE DOSING TIME
4. INCREASE DOSING TIME
5. MOTOR ON INDICATION
6. INDICATION EXTERNAL CONTACT
7. FEED RATE DISPLAY
8. DOSING TIME DISPLAY

![Control & Display Panel Diagram]

**Working Principle of Doser**

**Extrusion Mode**

Doser unit should be installed on the throat of the extruder directly. 0-10V DC analog voltage should be provided for synchronization with extruder speed. On connecting 0-10V DC from extruder, switch on the Doser from the rocker switch. All LED displayed on control panel will glow for few seconds, indicating the proper operation of all display. As soon as the DC motor starts, the master batch is fed into the extruder screw. The Doser RPM is dependent on 0-10V DC signal coming from extruder. If the signal is 0 V DC, then RPM is Zero, if the signal is 10 V DC then Doser RPM will be maximum.

*NOTE:-*
1. For synchronization 0-10V DC analog input is essential.
2. For Running of Doser in extrusion mode 0-10V DC input is essential.

**Injection Mode**

For injection mode adjust the required dosing time and feed rate and press the Start key. Doser start working as soon as the signal from moulding machine is available. A new cycle is start when the external contact is closed again.