

Bulletin : BAA:PMD-910.5
 Effective : JAN. 28, 2012
 Supersedes : BAA:PMD-910.3
 Dated : JULY 13, 2004

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.

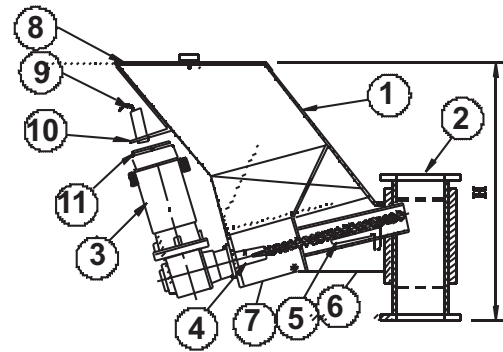
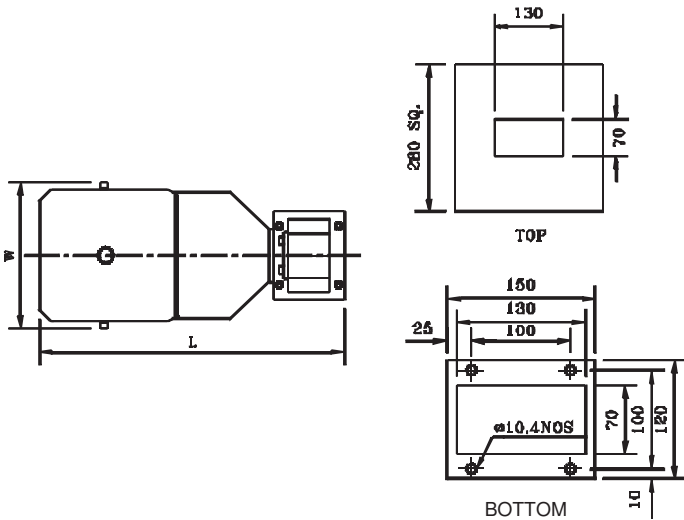


Specifications for BVD Series Volumetric Dosers :

MODEL	SCREW	MATERIAL THROUGH PUT IN kg/hr. @ 0.56 GMS/ CC BULK DEN SITY		DC MOTOR			DIMENSIONS IN MM			MAIN ELECTRICAL CONNECTION	APPROX. SHIPPING WEIGHT IN KG
	DIA MTR.			MOTOR		Storage Capacity in Volume (ltr.)	L	W	H		
		MIN	MAX	Watt.	MAX RPM						
BVD-2100	10 MM	0.2	3	75	100	9	515	150	325	230/1/50 Hz	18
BVD-8100	10 MM	0.2	3				515	250	385		20
	16 MM	1.5	9								
	25 MM	3.0	26								

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

Dimensional Data

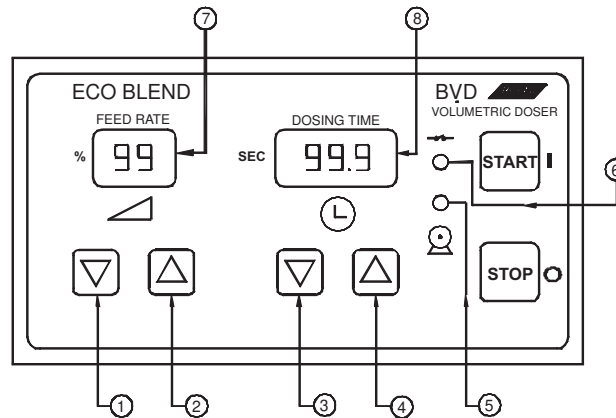


1. Belly
2. Crosspiece
3. Dosing Motor
4. Dosing Screw
5. Teflon Sleeve
6. Test Sample Tray
7. Drain Cover
8. Top Cover
9. Sensor
10. Bracket
11. DISC

NOTE : IN POINT (10) BRACKET IS SHOWN HALF FOR CLARITY.

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



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 dependant 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.