

AUTOMATED ADDITIVE METERING PUMPS

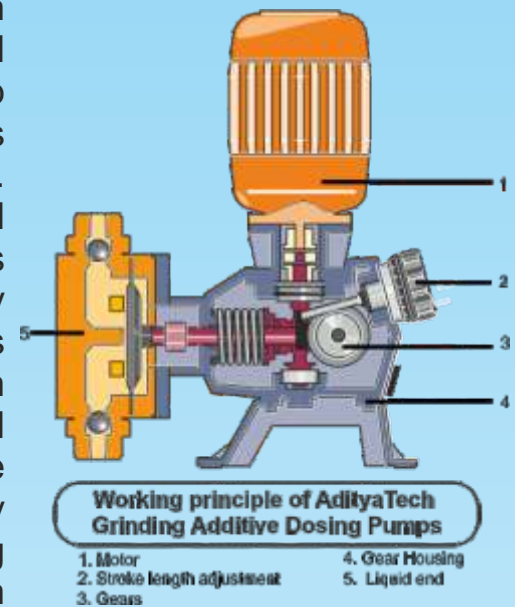




The Grinding Additive Chemical Motorised Diaphragm Metering pump are used for accurate and controlled dosing of liquid additive chemicals based on cement mill requirement. Accurate additive feeding as per cement mill TPH & % additive dosing is controlled from CCR thru these pumps. Selection of Pump model and Motor is finalised depending upon the type of Chemical to be dosed , required flow rate , required Bar pressure , Suction and Discharge side distances.

Principle of Operation : These pumps are Motor driven reciprocating pumps . Diaphragm is directly connected to a to & fro moving Plunger. Flow is controlled thru knob controllers fitted on the pump OR thru AC Speed Drives when ever automatic control is needed from CCR . These pumps work on worm gear reduction and diaphragm movement principle. The speed of motor is stepped down by means of worm gear. The rotary motion is converted in to a reciprocating one by means of the offset cam and the thrust rod. A powerful return spring presses the thrust rod to the offset cam and causes the mechanism to return. Variation of the stroke length is effected by limitation of the return strike by means of control knob and spindle. Further this stroking motion is passed on to the displacing element which in combination with the Suction valve and discharge valve

, generates alternately a positive & negative pressure in the displacement chamber , thus effecting the pumping action. The discharge flow varies sinusoidally. The flow rate can be varied and set to required value, manually by stroke length adjustment knob or automatically by changing the motor RPM or stroking rate.



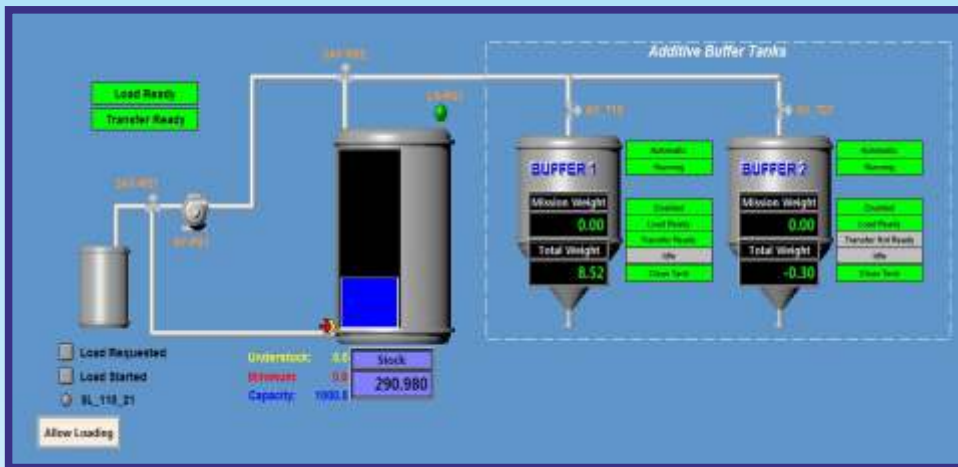
Specifications :

Working Temperature	: Available up to Maximum 80 °C depending upon Pump model
Working Pressure	: Available up to Maximum 12 Bar depending upon Pump model
Maximum Dosing rate	: Available up to Maximum 3000 LPH depending upon Pump model
MOC of Body	: Die Cast Aluminium (LM6)
MOC of wetted Parts	: Teflon / PP / SS 316 / PVC / CI etc
MOC of Diaphragm	: Teflon faced EPDM
MOC of Worm gear	: Steel & Bronze
Indication scale	: Available

These motor driven Diaphragm pumps are best suited for Grinding Additive metering applications from 0 to 10 LPH till 0 to 3000 LPH. The pumps are supplied with Motor suitable for a electrical supply of 3 phase, ½ HP, 0.37kW, 415 Volt, 50 Hz. However motor suiting for any other specific electrical rating such as 380 Volt, 3 Phase , 230 Volt Single Phase, 60 Hz can also be fitted. Pumps are routinely available with Liquid End of different MOC's such as PVC, PP, Teflon, SS316, Cast Iron .Other different MOC's are also available for special applications.



The pump is supplied with Suction NRV and Discharge NRV fitted on Liquid end. Other accessories Like Foot Valve, Dosing (Injection - Anti Syphon Valve) , Tubing/Hoses, Pressure Release Valve, Pulsation Dampener, Agitators (Stirrers), Dosing Tanks , Level Switches , Flow Meters , Level Indicators, Strainers , Pressure Gauges , Automated Control panels are also supplied as per clients specifications. Complete customized Skid mounted Dosing system with Control panels and Piping can also be offered to suit any application.



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