



MASCONTROL® Domestic Pump Controller

An advanced and economical solution for controlling surface mounted jet and end-suction centrifugal water pumps

MASCONTROL is an innovative device providing optimum control for electric pumps used in residential, domestic irrigation and booster systems. An intelligent mix of hydraulic and electronic engineering, **MASCONTROL** monitors both pressure and flow, controlling the operation of the pump automatically. No pressure tank or switch required. No cyclic variations in pressure or flow at the point of use. No risk of running the pump dry. No adjustment or maintenance is needed. Much more compact than traditional tank systems, **MASCONTROL** is dependable, durable and simple to install.



Technical Specifications

- Single-phase power - supply voltage 115/230 VAC
- Max. working pressure 145 PSI
- Max. working temperature 149°F

- **MASCONTROL** operates the pump from min. 22psi to the max. pressure generated by the pump.
- Max. pressure generated by the pump (at 0 gpm flow, a.k.a. “close-off” pressure) must be at least 45 psi. For booster pump applications, the sum of incoming supply pressure plus max. pressure generated by the pump must equal at least 45 psi.
- For submersible well pump applications, max. pressure is very high– be sure all pipe and fittings are capable of handling the max. pressure generated by the submersible pump.
- The vertical height of water column and highest tap above the **MASCONTROL** must not exceed 50 feet.
- Recommended max. flow rates are meant to minimize pressure losses thru the **MASCONTROL**. Use bypass application with either model for excessive flow rates.

Features & Benefits

- Maintains constant pressure and flow.
- Eliminates pump pressure switch.
- Can be used with or without a small pressure tank.
- Built-in pressure and flow switch.
- Built-in check valve.
- Built-in dry-run protection.
- Assists in absorbing water hammer.
- Reduces pump cycles, increasing pump life.
- Dual voltage 115 or 230 VAC.
- No adjustment or maintenance required.
- Simple installation saves space and time.
- Only replacement part is the electronic box - no rebuilds required.

Features of Construction

- Hydraulic housing molded using reinforced plastic.
- EPDM diaphragm and steel spring respond to variations in pressure.
- Stainless steel flow valve responds to variations in flow.
- NEMA 12 electronic box molded using self-extinguishing plastic.
- Individually tested electronic circuit board.
- Relay with special contacts and electrical life of over 300,000 cycles.

MODEL	PART NUMBER	CONNECTIONS	FOR FLOWS UP TO
MCA	1-BOSS1	1" MNPT	15 GPM
MCB	1-BOSS125	1¼" MNPT	25 GPM



A DIVISION OF C-B TOOL CO.

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