

SUBMITTAL DATA SHEET

Pressure Master

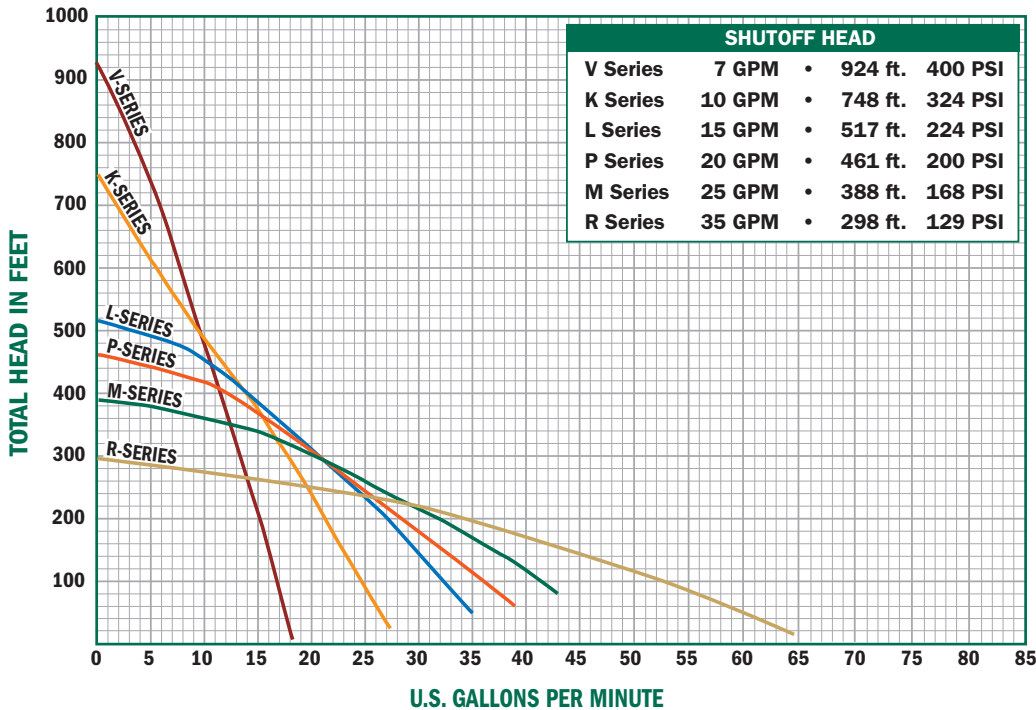
SubDrive | MonoDrive | E-Z Pac

SubDrive 100 - Pressure Controller



This controller provides constant water pressure using state of the art electronics to drive and enhance the performance of a standard submersible pump. The pressure in a well system is monitored and regulated by the pressure sensor to continually adjust the pump motor speed to meet water supply demands. It eliminates the pressure cycling associated with a conventional well system. SubDrive can deliver dependable constant pressure to provide water well owners with a premium water system.

APPLICATIONS - SubDrive 100 constant pressure controller is designed for use in residential or light commercial applications with a McDonald 1 HP pump end mounted to a 2 HP, 230 volt Franklin Electric three phase motor. Using single-phase input, this innovative variable speed controller can be used to provide constant pressure in applications with a wide range of flow demand including large homes, ground source heat pumps, and sprinkler systems.



NOTE: Performance shown does not include friction loss in drop pipe (for flow rates above 25 GPM, larger drop pipe is recommended.)

SUBMITTAL INFORMATION

- Constant water pressure with a wide range of settings (25-80 psi)
- Works with a standard pump mounted to a three-phase Franklin Electric submersible motor
- Nema 1 & Nema 4 enclosure
- Smaller pressure tank or existing tank can be used
- Three-phase performance with single phase input
- Soft start means less stress and longer life on motor
- Smart Reset technology allows well recovery before restarting the pump
- Built in protection and diagnostics
 - Surge protection
 - Dry well conditions
 - Underload
 - Undervoltage
 - Locked pump
 - Open circuit
 - Short circuit
 - Overheated controller
 - Controllers are UL & cUL recognized for U.S.A. and Canada

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



A.Y. McDonald Mfg. Co.
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A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

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The SubDrive 100 is designed to be part of a system that includes three main components:



1 Subdrive 100 controller
 (pressure sensor included)
 Nema1 - Part No. 6617-157
 Nema4 - Part No. 6617-158



2 Franklin 2 HP, 230V
 three phase motor
 Part No. 3129-796



3 Appropriate pump end
 Includes pump end 23100K
 For example:
 23100KCP1EZ

Models Available



No-Lead Brass - 21000 Series

E-Z PAC (N1)	E-Z PAC (N4)	DESCRIPTION
21100VCP1EZ	21100VCP4EZ	V Series, 7 GPM
21100KCP1EZ	21100KCP4EZ	K Series, 10 GPM
21100LCP1EZ	21100LCP4EZ	L Series, 15 GPM
21100PCP1EZ	21100PCP4EZ	P Series, 20 GPM
21100MCP1EZ	21100MCP4EZ	M Series, 25 GPM

N1 = (Nema 1), N4 = (Nema 4)

- 1 1/4" NPT connection on All Series



Stainless Steel - 23000 & 24000 Series

E-Z PAC (N1)	E-Z PAC (N4)	DESCRIPTION
23100VCP1EZ	23100VCP4EZ	V Series, 7 GPM
23100KCP1EZ	23100KCP4EZ	K Series, 10 GPM
23100LCP1EZ	23100LCP4EZ	L Series, 15 GPM
23100PCP1EZ	23100PCP4EZ	P Series, 20 GPM
23100MCP1EZ	23100MCP4EZ	M Series, 25 GPM
24100RCP1EZ	24100RCP4EZ	R Series, 35 GPM

N1 = (Nema 1), N4 = (Nema 4)

- 1 1/4" NPT connection on V, K, L, P, & M Series
 - 2" NPT connection on R Series

When ordering pump end only, order standard SH pump ends on V Series only.

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