

SUBMITTAL DATA SHEET

Pressure Master

SubDrive | MonoDrive | E-Z Pac

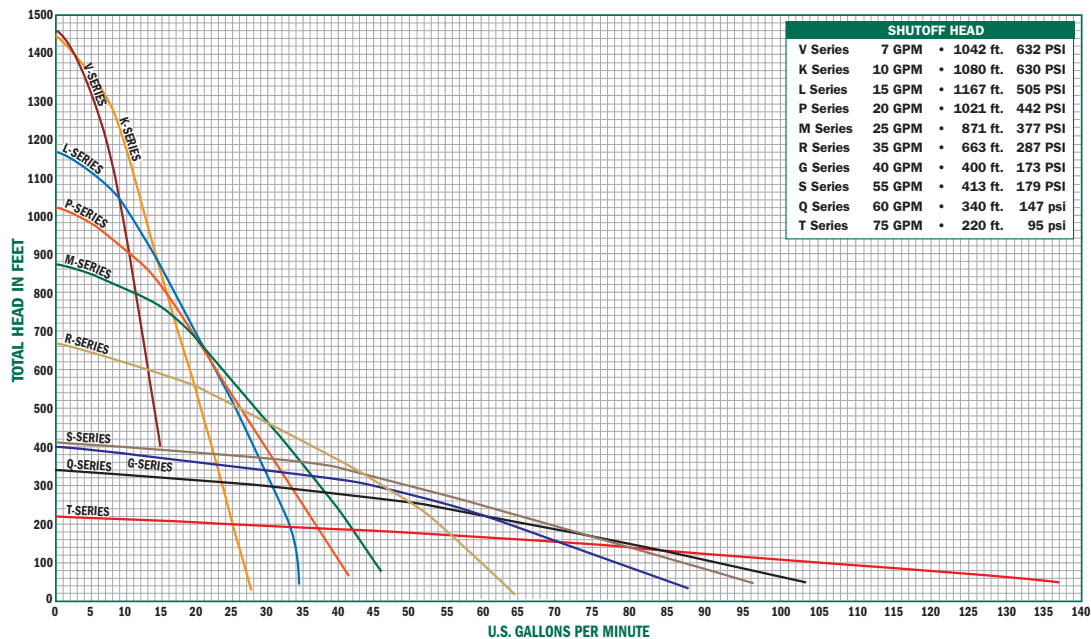
SubDrive 300 - Pressure Controller



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 300 constant pressure controller is designed for use with a McDonald 3 HP pump end mounted to a 5 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. Also designed to handle high capacities, SubDrive 300 is perfect for larger applications where constant pressure is essential: commercial landscaping, small livestock operations, nurseries, even some rare residential applications.



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 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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Dubuque, IA 52004-0508

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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 300 is designed to be part of a system that includes three main components:



1 Subdrive 300 controller
(pressure sensor included)
Nema4 - Part No. 6617-153



2 Franklin 5 HP, 230V
three phase motor
Part No. 3129-718



3 Appropriate pump end
Includes pump end 23300K
For example:
23300K3CP

Models Available



No-Lead Brass - 21000 Series

MODEL	DESCRIPTION
21200V3SHCP	V Series, 7 GPM
21300K3CP	K Series, 10 GPM
21300L3CP	L Series, 15 GPM
21300P3CP	P Series, 20 GPM
21300M3CP	M Series, 25 GPM

- 1 1/4" NPT connection on All Series



Stainless Steel - 23000 & 24000 Series

MODEL	DESCRIPTION
23200V3SHCP	V Series, 7 GPM
23300K3CP	K Series, 10 GPM
23300L3CP	L Series, 15 GPM
23300P3CP	P Series, 20 GPM
23300M3CP	M Series, 25 GPM
24300R3CP	R Series, 35 GPM
24300G3CP	G Series, 40 GPM
24300S3CP	S Series, 55 GPM
24300Q3CP	Q Series, 60 GPM
24300T3CP	T Series, 80 GPM

- 1 1/4" NPT connection on V, K, L, P, & M Series
- 2" NPT connection on R, G, S, Q and T Series

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