SUBMITTAL DATA SHEET

Pressure Master

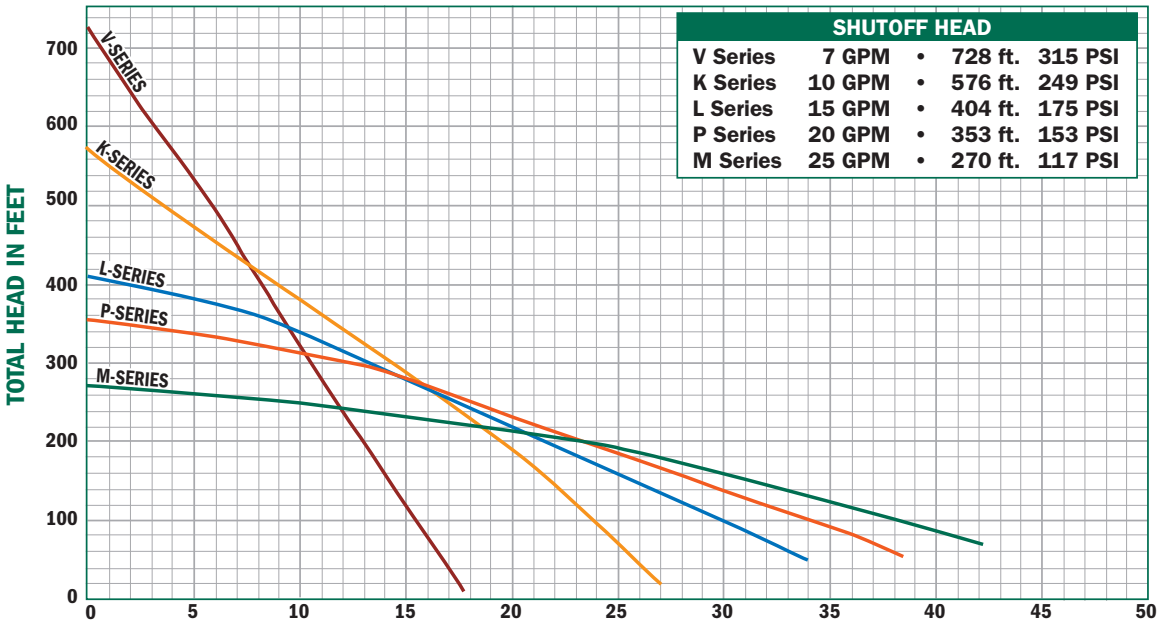
SubDrive | MonoDrive | E-Z Pac

SubDrive 75 - 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 75 constant pressure controller is designed for use in residential or light commercial applications with a McDonald 3/4 HP pump end mounted to a 1½ 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.



SHUTOFF HEAD				
V Series	7 GPM	•	728 ft.	315 PSI
K Series	10 GPM	•	576 ft.	249 PSI
L Series	15 GPM	•	404 ft.	175 PSI
P Series	20 GPM	•	353 ft.	153 PSI
M Series	25 GPM	•	270 ft.	117 PSI

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.

EST. 1856 McDonald

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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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Pressure Master

SubDrive | MonoDrive | E-Z Pac

SubDrive 75 - Pressure Controller



The SubDrive 75 is designed to be part of a system that includes three main components:



1 **Subdrive 75 controller (pressure sensor included)**
Nema1 - Part No. 6617-147
Nema4 - Part No. 6617-156



2 **Franklin 1 1/2 HP, 230V three phase motor**
Part No. 3129-794



3 **Appropriate pump end**
Includes pump end 23075K
For example:
23075KCP1EZ

Models Available



No-Lead Brass - 21000 Series

E-Z PAC (N1)	E-Z PAC (N4)	DESCRIPTION
21075VCP1EZ	21075VCP4EZ	V Series, 7 GPM
21075KCP1EZ	21075KCP4EZ	K Series, 10 GPM
21075LCP1EZ	21075LCP4EZ	L Series, 15 GPM
21075PCP1EZ	21075PCP4EZ	P Series, 20 GPM
21075MCP1EZ	21075MCP4EZ	M Series, 25 GPM

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

- 1 1/4" NPT connection on All Series



Stainless Steel - 23000 Series

E-Z PAC (N1)	E-Z PAC (N4)	DESCRIPTION
23075VCP1EZ	23075VCP4EZ	V Series, 7 GPM
23075KCP1EZ	23075KCP4EZ	K Series, 10 GPM
23075LCP1EZ	23075LCP4EZ	L Series, 15 GPM
23075PCP1EZ	23075PCP4EZ	P Series, 20 GPM
23075MCP1EZ	23075MCP4EZ	M Series, 25 GPM

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

- 1 1/4" NPT connection on All Series

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

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