



**FLINT & WALLING**

Zoeller Family of Water Solutions™

FW1676  
0414  
Supersedes  
0314

# PATRIOT® 4" SUBMERSIBLE

## "P" SERIES

1/2, 3/4 and 1 HP

2 Wire and 3 Wire 115 & 230 Volt Motors

5, 7, 11, 19 and 27 GPM Models

The PATRIOT® Series is Flint & Walling's entry level submersible pump. The proven hydraulics and precision engineering make the PATRIOT® an excellent choice for years of dependable service at an affordable price.

### Features:

- Glass-filled Noryl® discharge and mounting ring
- Heavy-wall stainless steel pump shell
- Stainless steel hex drive pump shaft
- Internal removable check valve
- Unique floating stack
- Flint & Walling 4" submersible motors



### CONTROL BOX FOR 3-WIRE MODELS

Quick-disconnect control box features replaceable snapout cover that keeps all components above ground for easy access and repair. Order control box separately. Control box not required for 2-wire models.

For F&W pump ends with Franklin motor, please add an "M" prefix to callout number when ordering. Example: M4F10A05301

**FEATURES AND BENEFITS**



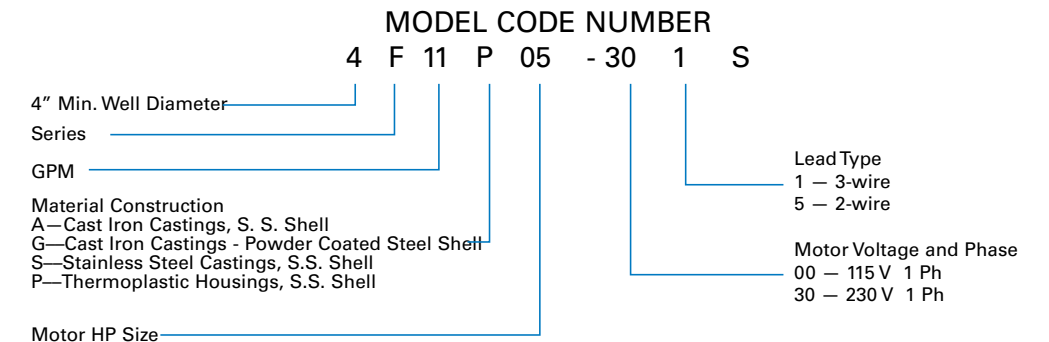
1. HEAVY SERIES STAINLESS STEEL PUMP SHELL is crush proof and corrosion-resistant.
2. STREAMLINED PVC CABLE GUARD easily accommodates motor leads and ground wire.
3. Flint & Walling two or three wire stainless steel motors.
4. STAINLESS STEEL HEX DRIVE PUMP SHAFT features an integral one-piece stainless steel shaft coupling to ensure positive alignment with the motor.
5. GLASS-FILLED NORYL® MOUNTING RING is precision molded for exact alignment of the motor to the pump end, in order to minimize vibration and noise.
6. GLASS-FILLED NORYL® DISCHARGE HEAD is non-toxic, and designed for long life. Also features large wrench flats on the discharge for easier pump installations.
7. INTEGRAL SUCTION SCREEN provides maximum protection from foreign debris, while providing a large inlet area to maximize flow and minimize friction loss.
8. GLASS-FILLED NORYL® SPIDER BEARING is non-toxic, corrosive resistant and provides excellent wear resistance from sand or abrasive damage.
9. PRECISION-MOLDED, FDA-COMPLIANT IMPELLERS AND DIFFUSERS feature non-fusing and stainless steel thrust-bearing inserts for long life and maximum efficiency.
10. FLOATING STACK with precision molded staging allows abrasive sand to flow through, reducing the chance of pump lockup.
11. INTERNAL REMOVABLE CHECK VALVE is field-proven, with FDA-compliant materials and an elastomer ring to ensure a positive seal.

NORYL® is a registered trademark of General Electric.

HP Size, GPM and Model No.	Stages	Motor Type	Ship Wt.	Disch. Press. PSI	DEPTH TO WATER LEVEL IN FEET																			Maximum Pressure	
					20	40	60	80	100	120	140	160	180	200	225	250	275	300	325	350	400	450	Ft.	PSI	
					CAPACITIES IN GALLONS PER MINUTE																				
1/2 HP 5 GPM 4F05P05	15	1 PH 3 Wire	25	0				9.6	9.2	8.9	8.5	8.2	7.8	7.4	7.0	6.5	5.9	5.3	4.7	4.0	3.2	390	168		
			20		9.1	8.8	8.4	8.1	7.7	7.3	6.9	6.5	6.0	5.5	4.8	4.1	3.3	2.3							
		1 PH 2 Wire	25	60		7.5	7.1	6.7	6.2	5.8	5.3	4.8	4.2	3.6	2.7										
			80		6.5	6.1	5.6	5.1	4.6	4.0	3.4	2.6	1.2												
1/2 HP 7 GPM 4F07P05	10	1 PH 3 Wire	22	0				13.6	13.0	12.4	11.7	11.0	10.4	9.8	9.0	8.2	7.2	5.8	4.2	2.1	310	134			
			20	12.9	12.2	11.6	10.9	10.3	9.6	8.9	8.1	7.2	6.1	4.7	2.6										
		1 PH 2 Wire	22	40		11.3	10.7	10.0	9.3	8.5	7.7	6.8	5.7	4.4	2.8										
			60		9.8	9.1	8.3	7.5	6.5	5.3	4.0	2.3													
	80		8.1	7.2	6.1	4.9	3.5																		
3/4 HP 7 GPM 4F07P07	14	1 PH 3 Wire	27	0				13.6	13.2	12.9	12.5	12.0	11.6	11.1	10.7	10.0	9.3	8.5	7.8	6.9	6.0	3.4	430	186	
			20		13.1	12.7	12.4	11.9	11.5	11.0	10.5	10.0	9.4	8.7	7.9	7.1	6.2	5.2	3.7						
		1 PH 2 Wire	27	40		12.2	11.8	11.3	10.9	10.3	9.8	9.2	8.6	8.0	7.2	6.3	5.3	3.9	1.8						
			60		11.2	10.7	10.2	9.6	9.1	8.5	7.9	7.2	6.5	5.5	4.2	2.3									
	80		10.0	9.5	8.9	8.2	7.7	6.9	6.3	5.4	4.4	2.7													
1/2 HP 11 GPM 4F11P05	7	1 PH 3 Wire	21	0				14.6	13.7	12.9	12.1	11.2	10.3	9.4	8.2	7.0	5.1	2.9	277	120					
			20	13.5	12.6	11.8	11.0	10.0	9.0	7.9	6.5	5.0	3.2												
		1 PH 2 Wire	21	40		11.6	10.7	9.7	8.7	7.5	6.1	4.5	2.6												
			60		9.4	8.3	7.1	5.6	3.9	2.0															
	80		6.6	5.1	3.4																				
3/4 HP 11 GPM 4F11P07	10	1 PH 3 Wire	25	0				14.7	14.1	13.5	13.0	12.4	11.8	11.3	10.6	9.8	8.9	7.8	6.6	5.3	3.8	401	173		
			20	14.5	13.9	13.3	12.8	12.2	11.7	11.1	10.4	9.8	9.0	8.0	6.8	5.5	4.0	2.3							
		1 PH 2 Wire	25	40		13.2	12.6	12.1	11.5	10.9	10.2	9.5	8.8	7.9	7.0	5.7	4.2	2.6							
			60		11.9	11.3	10.7	10.0	9.3	8.5	7.6	6.7	5.6	4.5	2.8										
	80		10.5	9.8	9.1	8.3	7.4	6.4	5.3	4.1	2.8														
1 HP 11 GPM 4F11P10	13	1 PH 3 Wire	29	0				14.6	14.1	13.7	13.3	12.8	12.4	12.0	11.4	10.7	10.1	9.3	8.5	7.7	5.6	3.2	504	218	
			20	14.9	14.5	14.0	13.6	13.1	12.7	12.3	11.8	11.3	10.8	10.2	9.5	8.7	7.8	6.9	5.8	3.6					
		1 PH 2 Wire	29	40		13.9	13.4	13.0	12.6	12.1	11.7	11.2	10.7	10.1	9.6	8.8	7.9	7.0	6.0	4.8	3.4				
			60		12.9	12.4	12.0	11.5	11.0	10.5	10.0	9.4	8.7	8.1	7.2	6.1	5.0	3.8	2.4						
	80		11.8	11.4	10.9	10.3	9.8	9.2	8.5	7.9	7.1	6.3	5.2	4.0	2.6										
1 HP 19 GPM 4F19P10	9	1 PH 3 Wire	27	0				25.5	24.4	23.2	22.1	20.7	19.4	17.8	16.2	13.7	10.7	5.0	283	122					
			20	25.2	24.0	22.9	21.7	20.4	19.0	17.4	15.6	13.7	11.4	6.2											
		1 PH 2 Wire	27	40		22.5	21.2	19.8	18.4	16.8	15.2	12.8	10.4	5.6											
			60		19.5	17.9	16.4	14.5	12.2	9.6	3.5														
	80		15.7	13.7	11.5	8.0																			
1 HP 27 GPM 4F27P10	7	1 PH 3 Wire	27	0				34.0	32.0	30.0	27.0	24.0	22.0	18.0	13.0	215	93								
			20	33.0	31.0	29.0	26.0	24.0	20.0	17.0	10.0														
		1 PH 2 Wire	27	40		28.0	25.0	23.0	19.0	15.0	5.0														
			60		22.0	18.0	13.0																		

NOTE: Pipe friction loss in drop pipe is not included in chart above.

Pump and motor assembly includes: Pump/motor unit and motor leads. Sta-Kon connectors and rubber electrical tape not included.



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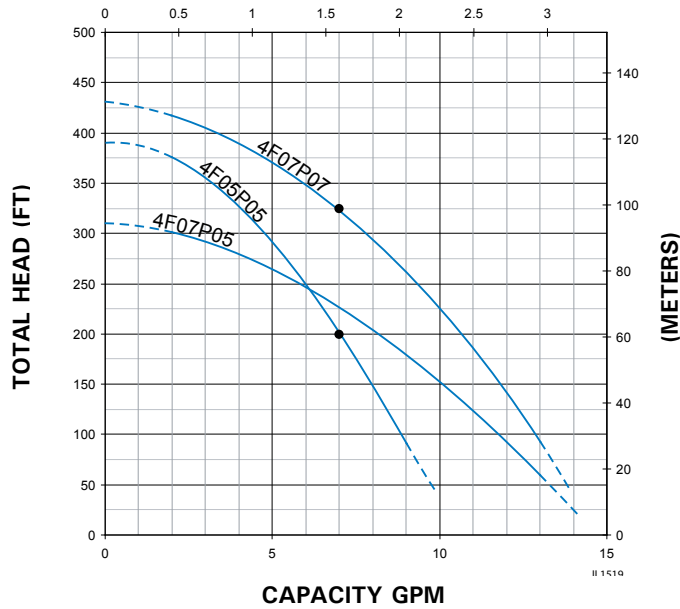
# Composite Performance Curves 5 to 27 GPM • 1/2 to 1 HP



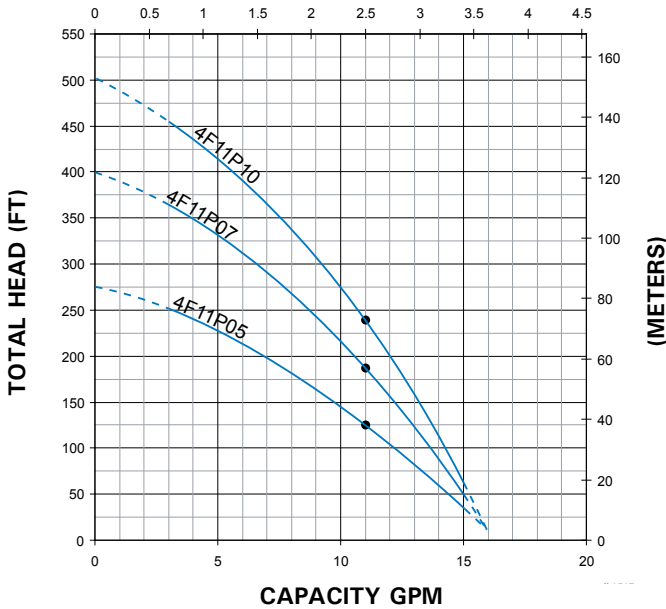
**FLINT & WALLING**

Zoeller Family of Water Solutions™

## 5 & 7 GPM



## 11 GPM



## 19 and 27 GPM

