FLINT & WALLING

Four-Inch Submersible Pumps

FW1674
0515
Supersedes
0315

2 and 3 wire
1/2 thru 7 1/2 HP
5 to 85 GPM

Series "4F"

Low, medium and high capacity submersible pumps for home, farm, industry and many other domestic and commercial applications

- **Stainless steel or cast iron suction and discharge housings**
- **Stainless steel pump shell**
- **Stainless steel hex drive shaft and coupling**
- **Stainless steel screen**
- **Corrosion resistant cable guard**
- **NEMA standard motor mounting ring**
- **Field replaceable cartridge assembly, lead guard, motor and motor lead wire assembly**
- **Flint & Walling or Franklin NEMA-mount stainless steel motors with lightning protection - (F&W available up to 2 HP)**

5 thru 27 GPM "A" Captain® Series with Cast Iron Suction & Discharge Housing

5 thru 27 GPM "S" Commander® Series with 304 S.S. Suction & Discharge Housing

35 thru 85 GPM "A" Captain® Plus Series with Cast Iron Suction and Discharge Housing

35 thru 85 GPM "S" Commander® Plus Series with 304 S.S. Suction and Discharge Housing

C US
UL Std. No. 778

DESIGNED • MACHINED ASSEMBLED IN THE USA
Using a majority of Made in America materials and components

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

Material Construction

Component Description	Commander® "S" Series 5, 7, 10, 15, 19 & 27 GPM 1/2 thru 5 HP	Captain® "A" Series 5, 7, 10, 19 & 27 GPM 1/2 thru 5 HP	Commander® Plus "S" Series 35, 55 & 85 GPM 1 thru 7-1/2 HP	Captain® Plus "A" Series 35, 55 & 85 GPM 1 thru 7-1/2 HP
Discharge Head	Stainless Steel, 1-1/4" NPT, safety rope eyelet included	Cast Iron, 1-1/4" NPT, safety rope eyelet included	Stainless Steel, 2" NPT, safety rope eyelets included	Cast Iron, 2" NPT
Check Valve Poppet	Internal removable, with elastomer sealing ring		Check valve not included	Check valve not included
Top Bearing	Closed sintered lead free sleeve bearing		Closed sintered lead free sleeve bearing	Closed sintered lead free sleeve bearing
Pump Shell	Heavy wall stainless steel	Heavy wall stainless steel	Heavy wall stainless steel	Heavy wall stainless steel
Cable Guard	Stainless steel	Stainless steel or Crush-proof PVC	Stainless steel	Stainless steel or Crush-proof PVC
Staging*	Noryl® impellers and diffusers; type stainless steel floating bearing inserts and acetal diffuser plates	Noryl® impellers and diffusers; type stainless steel floating bearing inserts and acetal diffuser plates	Noryl® impellers and diffusers; stainless steel floating bearing inserts and acetal diffuser plates	Noryl® impellers and diffusers; stainless steel floating bearing inserts and acetal diffuser plates
Pump Shaft*	Stainless steel hex shaft with one piece motor-to-shaft coupling	Stainless steel hex shaft with one piece motor-to-shaft coupling	Stainless steel hex shaft with one piece motor-to-shaft coupling	Stainless steel hex shaft with one piece motor-to-shaft coupling
Motor Bracket	NEMA standard, stainless steel with stainless steel suction screen	NEMA standard, cast iron with stainless steel suction screen	NEMA standard, stainless steel with stainless steel suction screen	NEMA standard, cast Iron with stainless steel suction screen
Motor	All pumps driven by a complete selection of Flint & Walling or Franklin stainless steel two wire or three wire motors. (F&W available up to 2 HP).		All pumps driven by a complete selection of Flint & Walling or Franklin stainless steel two wire or three wire motors. (F&W available up to 2 HP). Order motors separately.	
Motor Controls	F&W control boxes required for three-wire single phase motors. Franklin control boxes available on request. Magnetic starters and heaters are required for three phase models. Purchase at your local electrical outlet.		F&W control boxes required for three-wire single phase motors. Franklin control boxes available on request. Magnetic starters and heaters are required for three phase models. Purchase at your local electrical outlet.	

* Replacement cartridge assembly available for all models. Includes all necessary parts to restore pumps to like-new performance. No special tools required.

Noryl® is a registered trademark of General Electric.

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4″ 5 GPM • 1/2 thru 1 1/2 HP • 3450 RPM • 60 Cycle

FLINT & WALLING

HP Size and Model No.	Stages	Weight: Motor Type	Weight: Ship Wt.	Disch. Pressure PSI	DEPTH TO WATER LEVEL IN FEET: 20	40	60	80	100	120	140	160	180	200	225	250	275	300	325	350	400	450	500	550	600	650	700	800	Max. Pressure Ft.	Max. Pressure PSI
					CAPACITIES IN GALLONS PER MINUTE																									
1/2 HP 4F05A05 4F05S05 4F05G05	15	1 PH 3 Wire	29	0					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			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											
				40		8.3	7.9	7.5	7.1	6.7	6.3	5.9	5.4	4.9	4.2	3.5	2.4													
		1 PH 2 Wire	29	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																
3/4 HP 4F05A07 4F05S07	21	1 PH 3 Wire	35	0							8.9	8.7	8.4	8.2	7.8	7.5	7.2	6.8	6.5	6.1	5.2	4.2	2.9						550	238
				20					8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9	6.5	6.1	5.7	5.3	4.3	3.0								
				40			8.7	8.5	8.2	8.0	7.7	7.5	7.2	6.9	6.5	6.2	5.7	5.3	4.9	4.4	3.1									
		1 PH 2 Wire	35	60			8.2	7.9	7.7	7.4	7.1	6.8	6.5	6.2	5.8	5.4	4.9	4.5	3.9	3.3	1.3									
				80			7.6	7.3	7.0	6.7	6.4	6.1	5.9	5.5	5.1	4.5	4.0	3.3	2.6	1.5										
1 HP 4F05A10 4F05S10	26	1 PH 3 Wire	43	0									8.9	8.7	8.4	8.2	7.9	7.7	7.4	7.1	6.5	5.9	5.3	4.5	3.6	2.3			695	300
				20						9.0	8.8	8.6	8.4	8.2	7.9	7.7	7.4	7.2	6.9	6.6	6.0	5.3	4.6	3.7	2.4					
				40					8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	6.9	6.7	6.3	6.0	5.4	4.6	3.7	2.5						
		1 PH 2 Wire	43	60				8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.4	6.1	5.8	5.5	4.7	3.8	2.7							
				80				8.0	7.8	7.6	7.4	7.2	7.0	6.7	6.5	6.1	5.8	5.5	5.1	4.7	3.9	2.7								
1-1/2 HP 4F05A15 4F05S15	35	1 PH 3 Wire	55	0											8.9	8.7	8.5	8.3	8.2	8.0	7.5	7.1	6.7	6.3	5.9	5.4	5.0	4.0	950	411
				20								9.0	8.9	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.2	6.8	6.3	5.9	5.5	5.0	4.6	3.4		
		1 PH 2Wire	55	40						9.0	8.8	8.7	8.5	8.4	8.2	8.0	7.8	7.6	7.4	7.2	6.8	6.3	5.9	5.5	5.1	4.6	4.1			
				60					8.8	8.6	8.5	8.4	8.2	8.0	7.9	7.7	7.5	7.3	7.0	6.8	6.4	6.0	5.0	5.1	4.6	4.1	3.5			
		3 PH 3 Wire	52	80					8.5	8.1	8.2	8.0	7.8	7.7	7.5	7.3	7.1	6.8	6.6	6.4	6.0	5.6	5.1	4.7	4.1	3.5				

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

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.

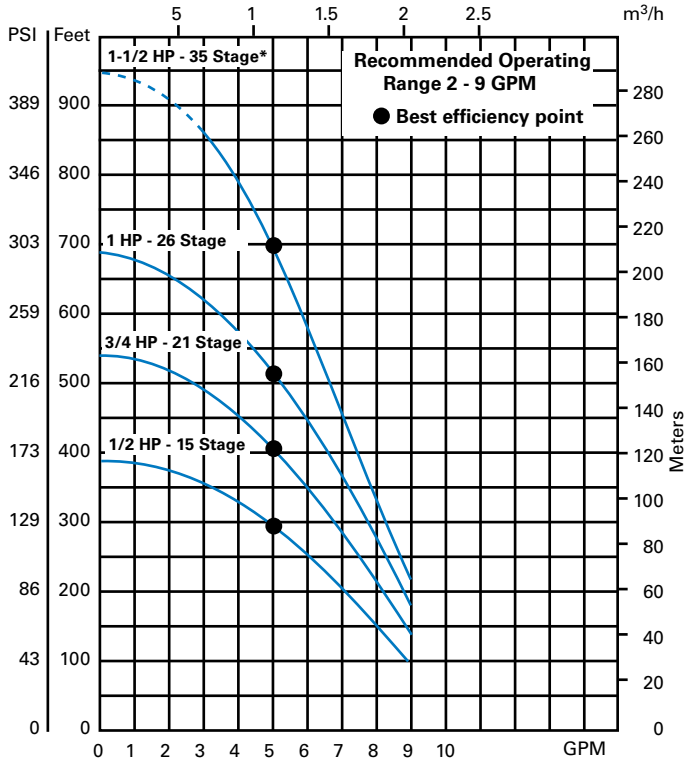
Stainless Steel
1-1/4″ NPT

3.72″

Cast Iron
1-1/4″ NPT

3.72″

5 GPM • ½ - 1½ HP



* Pumps marked with asterisks not to be operated at GPM flows indicated by dotted line.

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

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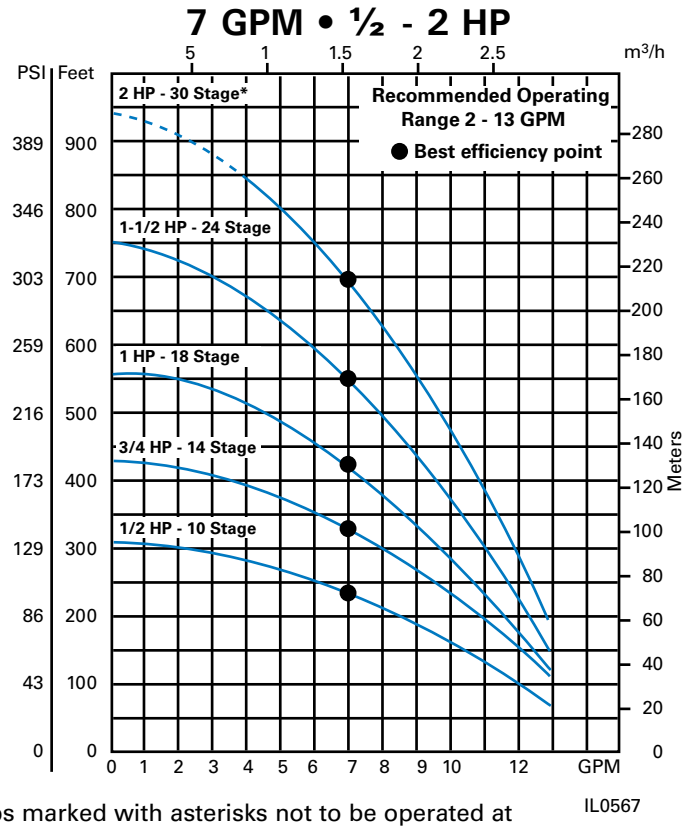
FLINT & WALLING

4″ 7 GPM • 1/2 thru 2 HP • 3450 RPM • 60 Cycle

HP Size and Model No.	Stages	Weight: Motor Type	Weight: Ship Wt.	Disch. Press PSI	CAPACITIES IN GALLONS PER MINUTE																								Max. Pressure	
					20	40	60	80	100	120	140	160	180	200	225	250	275	300	325	350	400	450	500	550	600	650	700	800	Ft.	PSI
					CAPACITIES IN GALLONS PER MINUTE																									
1/2 HP 4F07A05 4F07S05 4F07G05	10	1 PH 3 Wire	28	0			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	2.0														
				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																		
		1 PH 2 Wire	28	80	8.1	7.2	6.1	4.9	3.5																					
3/4 HP 4F07A07 4F07S07 4F07G07	14	1 PH 3 Wire	33	0					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			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										
				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													
		1 PH 2 Wire	33	80		10.0	9.5	8.9	8.2	7.7	6.9	6.3	5.4	4.4	2.7															
1 HP 4F07A10 4F07S10 4F07G10	18	1 PH 3 Wire	37	0						12.7	12.4	12.1	11.7	11.4	10.9	10.5	10.0	9.5	9.0	8.5	7.4	6.1	4.5	1.6					560	242
				20			12.0	12.7	12.3	12.0	11.7	11.3	10.9	10.6	10.1	9.7	9.2	8.7	7.8	7.5	6.3	4.7	2.1							
				40			12.2	11.9	11.5	11.2	10.8	10.4	10.1	9.7	9.2	8.7	8.1	7.6	7.0	6.3	4.7	2.1								
				60			10.8	11.0	10.7	10.3	9.9	9.6	9.2	8.8	8.3	7.7	7.1	6.5	5.8	4.9	2.5									
		1 PH 2 Wire	37	80			10.6	10.2	9.8	9.5	9.1	8.7	8.2	7.8	7.2	6.6	5.9	5.1	4.1	2.8										
1-1/2 HP 4F07A15 4F07S15	24	1 PH 3 Wire	51	0							12.9	12.7	12.4	12.1	11.8	11.5	11.2	10.8	10.5	10.1	9.4	8.7	7.8	6.9	5.9	4.6	3.9		745	322
				20					12.8	12.6	12.3	12.1	11.8	11.6	11.3	10.9	10.5	10.2	9.8	9.5	8.7	7.9	7.0	6.0	4.7	3.1				
				40					12.2	12.0	11.7	11.5	11.2	10.9	10.6	10.2	9.9	9.5	9.1	8.7	7.9	7.0	6.0	4.8	3.2					
				60					11.6	11.4	11.1	10.8	10.5	10.3	9.9	9.6	9.2	8.8	8.4	8.0	7.1	6.1	4.9	3.3						
		1 PH 2 Wire	51	80					11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.5	8.1	7.6	7.2	6.2	5.0	3.5							
		3 PH 3 Wire	46																											
2 HP 4F07A20 4F07S20	30	1 PH 3 Wire	61	0									13.0	12.8	12.5	12.3	12.0	11.8	11.5	11.3	10.7	10.2	9.6	9.0	8.3	7.7	6.9	5.2	945	409
				20								12.7	12.5	12.3	12.1	11.9	11.6	11.3	11.1	10.8	10.2	9.6	9.1	8.4	7.7	7.0	6.2			
				40								12.3	12.1	11.9	11.6	11.3	11.1	10.8	10.5	10.2	9.7	9.1	8.4	7.7	7.0	6.3	5.3			
				60								11.8	11.6	11.4	11.1	10.9	10.6	10.3	10.0	9.7	9.1	8.5	7.8	7.1	6.3	5.5	4.4			
		3 PH 3 Wire	51	80								11.3	11.1	10.9	10.6	10.3	10.1	9.8	9.5	9.2	8.5	7.9	7.2	6.4	5.5	4.4				

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

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.



* Pumps marked with asterisks not to be operated at GPM flows indicated by dotted lines.

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

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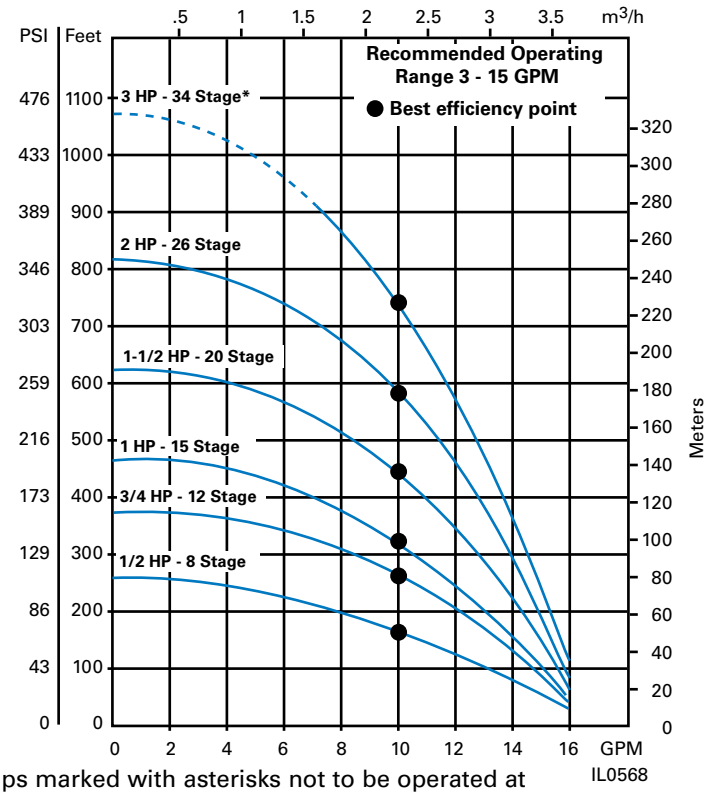
4" 10 GPM • 1/2 thru 3 HP • 3450 RPM • 60 Cycle

FLINT & WALLING

HP Size and Model No.	Stage	Weight: Motor Type	Weight: Ship Wt.	Discharge Pressure PSI	DEPTH TO WATER LEVEL IN FEET (CAPACITIES IN GALLONS PER MINUTE) 20	40	60	80	100	120	140	160	180	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	Max. Press. Ft.	Max. Press. PSI
1/2 HP 4F10A05 4F10S05 4F10G05	8	1 PH 3 Wire	27	0			14.7	14.2	13.4	12.6	11.7	10.8	9.7	8.3	6.3	2.1													250	108
				20	14.6	14.1	13.3	12.5	11.6	10.5	9.5	7.8	6.0	3.4																
				40	12.8	12.0	11.0	10.0	8.7	6.9	4.8																			
				60	10.9	9.9	8.6	6.7	4.5																					
				80	7.8	4.9	3.6																							
		1 PH 2 Wire	27																											
3/4 HP 4F10A07 4F10S07 4F10G07	12	1 PH 3 Wire	32	0				15.0	14.6	14.1	13.6	13.1	12.5	12.0	11.3	10.4	9.7	8.5	5.7										375	162
				20		14.9	14.5	13.9	13.4	13.0	12.4	11.9	11.4	10.7	9.8	8.9	7.4	6.1												
				40	14.3	13.8	13.3	12.8	12.4	11.4	11.0	10.5	9.6	8.9	7.9	6.1	3.5													
				60	13.2	12.6	12.1	11.5	10.9	10.3	9.6	8.7	7.7	6.6	3.8															
				80	11.9	11.4	10.6	10.0	9.3	8.4	7.4	6.2	3.8																	
		1 PH 2 Wire	32																											
1 HP 4F10A10 4F10S10 4F10G10	15	1 PH 3 Wire	36	0						14.7	14.3	13.9	13.6	13.1	12.6	12.0	11.4	10.8	9.3	7.4	3.8								470	203
				20			15.0	14.7	14.3	13.8	13.4	13.0	12.6	12.1	11.6	10.9	10.2	9.6	7.6	4.6										
				40	14.9	14.5	14.1	13.7	13.3	12.9	12.4	11.9	11.4	10.9	10.3	9.5	8.6	7.9	4.5										
				60	13.9	13.5	12.7	12.7	12.3	11.8	11.2	10.9	10.3	9.7	8.9	7.8	6.6	5.0											
				80	13.1	12.6	12.1	11.7	11.2	10.7	10.1	9.7	9.0	8.2	6.8	5.3	2.6												
		1 PH 2 Wire	36																											
1-1/2 HP 4F10A15 4F10S15 4F10G15	20	1 PH 3 Wire	47	0							15.0	14.7	14.4	14.1	13.8	13.4	12.9	12.6	11.8	10.8	9.8	8.5	4.8	3.9					630	272
				20					14.9	14.6	14.3	14.1	13.8	13.4	13.0	12.6	12.2	11.8	10.9	9.9	8.6	7.0	4.1							
		1 PH 2 Wire	47	40			15.0	14.8	14.5	14.2	13.6	13.4	13.0	12.7	12.4	11.9	11.5	11.0	10.0	8.6	7.1	4.4								
				60	14.7	14.5	14.1	13.9	13.6	13.2	12.9	12.7	12.3	12.0	11.5	11.1	10.6	10.1	8.8	7.3	4.8									
				80	14.1	13.8	13.5	13.2	12.9	12.6	12.2	11.8	11.4	11.0	10.5	10.1	9.6	9.0	7.4	4.9										
		3 PH 3 Wire	41																											
2 HP 4F10A20 4F10S20	26	1 PH 3 Wire	62	0									15.0	14.8	14.6	14.2	14.0	13.6	13.1	12.4	11.8	11.1	10.4	9.5	8.5	7.3	2.7		815	352
				20							15.0	14.7	14.5	14.3	13.9	13.7	13.4	13.1	12.5	11.8	11.2	10.4	9.6							
				40					14.9	14.6	14.4	14.2	14.0	13.8	13.4	13.1	12.8	12.6	11.9	11.2	10.5	9.6								
		3 PH 3 Wire	53	60			15.0	14.8	14.4	14.2	13.9	13.6	13.4	13.2	12.9	12.6	12.3	11.9	11.3	10.5	9.7									
				80	14.7	14.5	14.3	14.1	13.8	13.6	13.4	13.2	13.0	12.6	12.3	12.0	11.7	11.4	10.5	9.7										
3 HP 4F10A30 4F10S30	34	1 PH 3 Wire	79	0								15.5	15.3	15.1	14.8	14.6	14.3	14.1	13.9	13.5	13.1	12.6	12.1	11.7	11.1	10.6	9.3	7.5	1070	462
				20						15.5	15.3	15.0	14.8	14.6	14.4	14.2	14.0	13.8	13.4	13.0	12.7	12.3	11.8	11.3	10.5	10.0	8.5	6.8		
				40				15.4	15.2	15.0	14.8	14.6	14.4	14.2	14.1	14.0	13.8	13.6	13.2	12.6	12.2	11.7	11.3	10.7	10.1	9.6	7.6			
				60		15.4	15.2	15.0	14.8	14.6	14.4	14.3	14.2	14.1	13.9	13.7	13.4	13.1	12.5	12.1	11.8	11.3	10.6	10.2	9.5	8.7	6.8			
				80	15.3	15.0	14.8	14.6	14.4	14.2	14.1	14.0	13.9	13.7	13.6	13.4	13.1	12.8	12.2	11.9	11.4	10.8	10.2	9.5	8.6	7.5				
		3 PH 3 Wire	70																											

NOTE: Pipe friction loss in drop pipe is not included in chart above. ***1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.***

10 GPM • ½ - 3 HP



* Pumps marked with asterisks not to be operated at GPM flows indicated by dotted lines.

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

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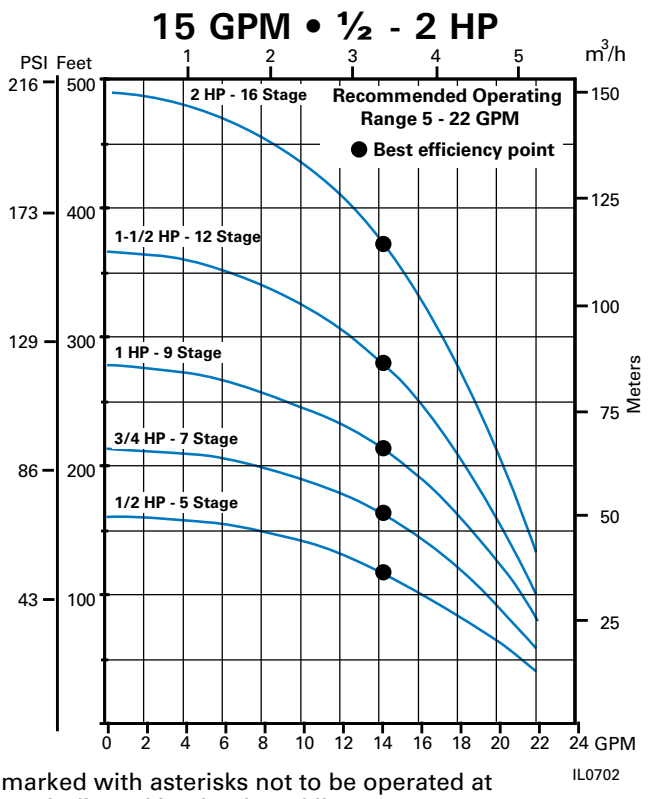
4″ 15 GPM • 1/2 thru 2 HP • 3450 RPM • 60 Cycle

HP Size and Model No.	Stage	Weight: Motor Type	Weight: Ship Wt.	Discharge Pressure PSI	DEPTH TO WATER LEVEL IN FEET: 20	40	60	80	100	120	140	160	180	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	Max. Press. Ft.	Max. Press. PSI
					CAPACITIES IN GALLONS PER MINUTE																									
1/2 HP 4F15S05	5	1 PH 3 Wire	28	0		22.0	20.5	18.5	16.2	13.7	10.2																		159	69
				20	19.8	17.7	15.5	12.7	8.8																					
				40	14.6	11.6	7.0																							
		1 PH 2 Wire	28																											
3/4 HP 4F15S07	7	1 PH 3 Wire	33	0			21.9	20.9	19.5	18.0	16.4	14.6	11.8	7.8															214	93
				20	21.5	20.5	19.1	17.6	15.9	13.8	11.8	5.8																		
				40	18.5	17.0	15.3	13.0	9.5	9.5																				
		1 PH 2 Wire	33	60	14.6	11.8	8.1																							
				80	6.2																									
1 HP 4F15S10	9	1 PH 3 Wire	36	0					21.9	21.1	20.0	18.6	17.2	15.4	12.7	9.2													279	121
				20			21.6	20.7	19.6	17.2	16.6	14.9	12.7	9.8	4.6															
				40	21.4	20.4	19.2	17.7	15.1	14.3	11.9	8.8	4.2																	
		1 PH 2 Wire	36	60	18.6	17.2	15.5	13.6	10.9	7.7																				
				80	15.0	12.6	10.0	6.3																						
1-1/2 HP 4F15S15	12	1 PH 3 Wire	33	0					22.0	21.4	20.7	20.0	19.1	18.3	17.2	15.9	14.5	12.7	6.4										367	159
				20			21.8	21.2	20.5	19.7	18.8	18.0	17.1	16.1	14.7	12.9	10.5	7.3												
				40	21.6	21.0	20.2	19.5	18.7	17.7	16.8	15.8	14.7	13.2	10.9	7.9														
				60	20.0	19.1	18.2	17.5	16.6	15.5	14.2	13.8	10.8	8.4																
		1 PH 2 Wire	33	80	18.1	17.2	16.2	15.1	13.9	12.2	10.1	7.5																		
2 HP 4F15S20	16	1 PH 3 Wire	36	0							21.8	21.4	20.9	20.4	19.6	18.8	18.0	17.2	15.3	12.7	8.5								489	212
				20					21.7	21.2	20.7	20.2	19.5	18.9	18.1	17.2	16.3	15.4	13.8	8.9										
				40					20.6	20.0	19.3	18.8	18.1	17.4	16.5	15.6	14.5	13.1	9.2											
				60					19.2	18.5	17.9	17.2	16.5	15.8	14.8	13.2	11.7	9.7												
		1 PH 2 Wire	36	80					17.6	17.0	16.2	15.5	14.6	13.6	11.9	9.9	7.5													

NOTE: Pipe friction loss in drop pipe is not included in chart above. ***1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.***



∗ Pumps marked with asterisks not to be operated at GPM flows indicated by the dotted line.

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4" 19 GPM • 1/2 thru 5 HP • 3450 RPM • 60 Cycle

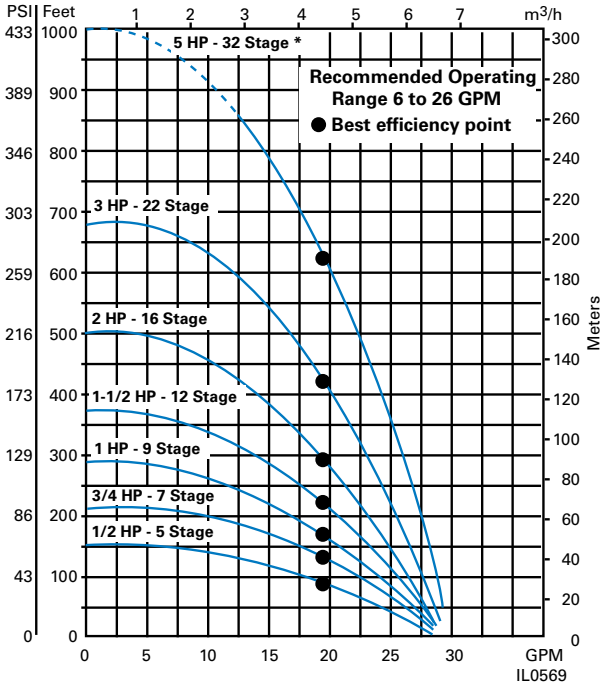
FLINT & WALLING

HP Size and Model No.	Stg.	Weight: Motor Type	Weight: Ship Wt.	Disch. Press. PSI	DEPTH TO WATER LEVEL IN FEET (CAPACITIES IN GALLONS PER MINUTE) 20	40	60	80	100	120	140	160	180	200	225	250	275	300	325	350	400	450	500	550	600	650	700	800	Max. Pressure Ft.	Max. Pressure PSI
1/2 HP 4F19A05 4F19S05	5	1 PH 3 Wire	28	0		24.6	22.7	20.5	17.9	15.0	10.4																		155	67
				20	22.0	19.8	17.1	14.0	5.9																					
				40	16.0	12.2	3.5																							
		1 PH 2 Wire	28																											
3/4 HP 4F19A07 4F19S07	7	1 PH 3 Wire	33	0			24.6	23.3	21.7	20.0	18.2	16.0	13.3	9.6															215	93
				20	24.4	22.9	21.4	19.5	17.5	15.3	12.4	8.6																		
				40	20.6	18.7	16.6	14.3	11.0	5.5																				
				60	16.2	13.6	10.2																							
				80	8.0																									
		1 PH 2 Wire	33																											
1 HP 4F19A10 4F19S10 4F19G10	9	1 PH 3 Wire	36	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															
				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 PH 2 Wire	36																											
1-1/2 HP 4F19A15 4F19S15 4F19G15	12	1 PH 3 Wire	43	0				25.5	24.6	23.8	22.9	22.0	21.1	20.1	18.9	17.5	15.1	14.3	11.8	8.7									375	163
				20		25.2	24.4	23.5	22.7	21.7	20.7	19.9	18.9	17.7	16.3	14.3	12.2	9.5	3.6											
				40	24.2	23.3	22.4	21.4	20.5	19.5	18.5	17.4	16.3	14.9	12.7	9.7	5.7													
		1 PH 2 Wire	43	60	22.1	21.1	20.2	19.2	18.2	17.1	15.8	14.4	12.7	10.4	6.3															
		3 PH 3 Wire	39	80	19.9	18.8	17.8	16.7	15.4	13.7	11.9	9.2	5.9																	
2 HP 4F19A20 4F19S20	16	1 PH 3 Wire	59	0					25.7	25.1	24.5	23.8	23.2	22.5	21.8	20.9	20.0	19.0	18.0	16.8	14.2	10.5	3.3						500	217
				20			25.5	24.9	24.3	23.7	23.0	22.4	21.8	21.0	20.2	19.2	18.2	17.0	15.9	14.4	10.8	5.0								
				40	25.3	24.6	24.1	23.5	22.8	22.2	21.5	20.8	20.1	19.3	18.3	17.2	15.9	14.6	12.9	11.0	5.3									
				60	23.9	23.3	22.7	22.0	21.3	20.6	19.8	19.1	18.3	17.4	16.3	14.8	13.2	11.3	9.2	6.2										
		3 PH 3 Wire	49	80	22.4	21.8	21.1	20.3	19.6	18.9	18.1	17.2	16.2	15.1	13.5	11.6	9.5	6.7												
3 HP 4F19A30 4F19S30	22	1 PH 3 Wire	75	0							25.7	25.2	24.8	24.3	23.8	23.2	22.6	22.0	21.5	20.8	19.5	18.3	16.3	14.3	11.7	8.3			685	298
				20				26.0	25.6	25.2	24.7	24.3	23.8	23.3	22.8	22.2	21.5	20.9	20.3	19.6	18.2	16.6	14.7	12.2	8.7					
				40		25.8	25.4	25.0	24.5	24.1	23.6	23.2	22.7	22.2	21.7	21.0	20.3	19.8	19.0	18.2	16.6	14.7	12.2	9.2						
				60	25.3	24.8	24.3	23.9	23.5	23.0	22.5	22.1	21.5	21.0	20.5	19.8	19.2	18.3	17.6	16.8	14.8	12.7	9.3						
				80	24.2	23.9	23.3	22.8	22.3	21.9	21.4	20.9	20.3	19.8	19.2	18.4	17.7	16.9	16.0	14.9	12.7	9.5	3.3						
		3 PH 3 Wire	75																											
5 HP 4F19A50 4F19S50	32	1 PH 3 Wire	117	0										25.8	25.4	25.0	24.6	24.3	23.8	23.5	22.7	21.8	21.0	20.2	19.2	18.2	17.0	14.2	1000	435
				20							25.9	25.7	25.4	25.2	24.8	24.3	24.0	23.5	23.2	22.8	21.9	21.1	20.2	19.3	18.3	17.2	15.8	12.7		
				40					25.9	25.6	25.3	25.0	24.7	24.4	24.1	23.7	23.2	22.8	22.4	21.9	21.2	20.3	19.3	18.3	17.2	15.8	14.5			
				60		26.0	25.8	25.5	25.2	24.8	24.5	24.2	23.9	23.7	23.3	22.8	22.4	22.0	21.6	21.2	20.3	19.3	18.3	17.2	15.9	14.5	12.8			
		3 PH 3 Wire	80	80	25.7	25.3	25.1	24.8	24.5	24.2	23.8	23.5	23.2	22.8	22.5	22.2	21.7	21.3	20.8	20.4	19.4	18.4	17.3	16.2	14.7	12.9	11.2			

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

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.

19 GPM • ½ - 5 HP



Stainless Steel 1-1/4" NPT

3.72"

Cast Iron 1-1/4" NPT

3.72"

* Pumps marked with asterisks not to be operated at GPM flows indicated by the dotted line.

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

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4" 27 GPM • 3/4 thru 5 HP • 3450 RPM • 60 Cycle

HP Size And Model No.	Stages	WEIGHT Motor Type	WEIGHT Shp. Weight	Disch. Press. PSI	DEPTH TO WATER LEVEL IN FEET 20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	350	400	450	500	550	600	650	700	750	800	Max. Pressure Ft.	Max. Pressure PSI
					CAPACITIES IN GALLONS PER MINUTE																										
3/4 HP 4F27A07 4F27S07	6	1 PH 3 Wire	33	0			32	30	27	24	21	16	5																	180	78
				20	32	29	26	23	20	15																					
		1 PH 2 Wire	33	40	25	22	18	12																							
				60	17	9																									
1 HP 4F27A10 4F27S10 4F27G10	7	1 PH 3 Wire	35	0			34	32	30	27	24	22	18	13																215	93
				20	33	31	29	26	24	20	17	10																			
		1 PH 2 Wire	35	40	28	25	23	19	15	5																					
				60	22	18	13																								
1-1/2 HP 4F27A15 4F27S15 4F27G15	10	1 PH 3 Wire	43	0				34	33	31	29	28	26	24	22	20	17	14	6											305	132
				20																											
		1 PH 2 Wire	43	40	31	33	32	30	29	27	25	24	22	19	17	13															
				60	28	30	28	27	25	23	21	19	16	11																	
		3 PH 3 Wire	38			26	24	22	20	18	15	8																			
2 HP 4F27A20 4F27S20	12	1 PH 3 Wire	44	0					34	33	32	31	30	28	27	25	23	21	18	9										360	156
				20					32	30	29	27	26	24	22	20	18	15	10												
		3 PH 3 Wire	46	40			34	33	29	27	25	24	22	19	17	13	8														
				60			31	30	25	23	21	19	16	12	5																
							28	26																							
3 HP* 4F27A30 4F27S30	17	1 PH 3 Wire	73	0							34	33	33	32	31	30	29	28	27	24	21	16	9							515	223
				20					34	33	33	32	31	30	29	28	27	26	25	21	17	10									
		3 PH 3 Wire	73	40					32	31	30	30	29	28	27	25	24	23	21	17	11										
				60					30	29	28	27	26	25	24	22	21	19	17	12											
5 HP* 4F27A50 4F27S50	29	1 PH 3 Wire	116	0											34	34	33	33	32	31	30	29	27	26	24	22	20	18	15	880	380
				20									34	34	33	33	32	32	31	30	29	27	26	24	22	20	18	15	12		
		3 PH 3 Wire	80	40								34	33	33	32	32	31	31	30	29	27	26	24	22	20	18	16	12			
				60								32	32	31	31	30	30	29	29	28	26	24	22	21	18	16	12				

NOTE: Pipe friction loss in drop pipe is not included in chart above.
*For 3 HP and above, refer to motor manufacturer's handbook for proper flow rates to cool motor.

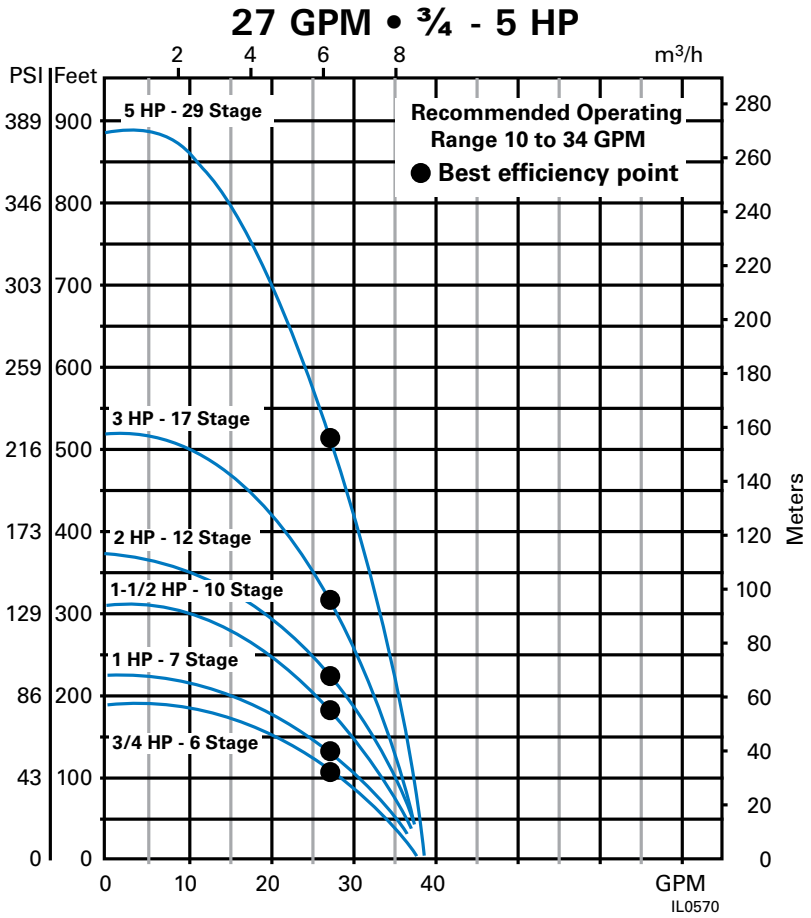
1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.

Stainless Steel
1-1/4" NPT

3.72"

Cast Iron
1-1/4" NPT

3.72"



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

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4″ 35 GPM • 1 thru 7 1/2 HP • 3450 RPM • 60 Cycle

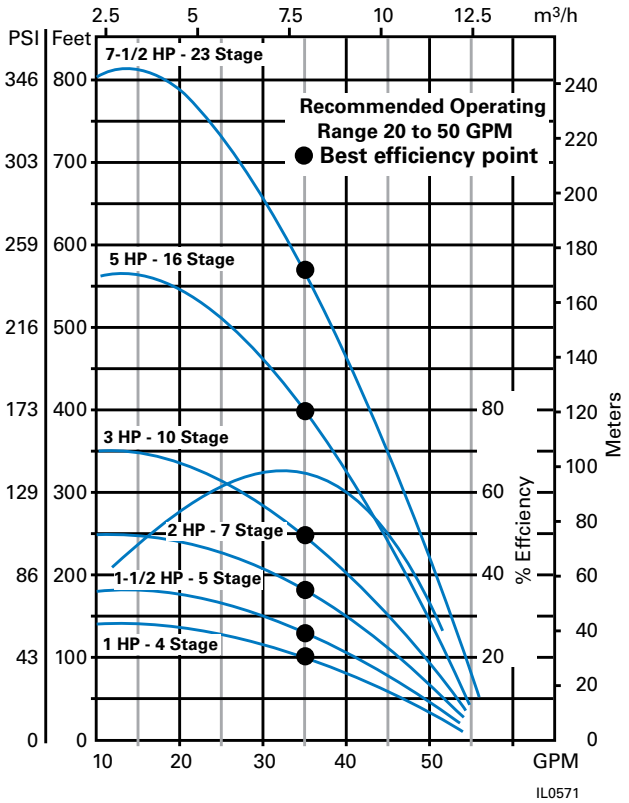
FLINT & WALLING

HP Size And Model No.	Stages	Phase	WEIGHT Pump End	WEIGHT Motor End	Disch. Press. PSI	DEPTH TO WATER LEVEL IN FEET 20	40	60	80	100	120	140	160	180	200	220	240	260	300	350	400	450	500	550	600	650	700	Max. Pressure Ft.	Max. Pressure PSI
						CAPACITIES IN GALLONS PER MINUTE																							
1 HP 4F35A10 4F35S10	4	1	11	23	0																							140	67
					20	42	47	43	38	33	27																		
					40	30	37	32	25																				
					60		22																						
1-1/2 HP 4F35A15 4F35S15	5	1	12	28	0																							180	78
					20	46	43	47	43	40	36	31	25	10															
					40	38	33	39	35	30	23																		
					60	26	15	28																					
		3	12	25																									
2 HP 4F35A20 4F35S20	7	1	14	30	0																							245	106
					20			50	48	45	43	40	37	34	30	26	19												
					40		47	45	42	39	36	33	29	24															
					60		41	38	35	32	28	22																	
		3	14	28			34	31	26	19																			
3 HP* 4F35A30 4F35S30	10	1	17	52	0																							355	154
					20			48	47	49	47	45	44	42	40	38	36	33	28	17									
					40			45	43	45	43	41	39	37	35	33	30	27	18										
					60			40	38	41	39	37	35	32	29	26	22	17											
		3	17	43						36	34	31	28	25	20														
5 HP* 4F35A50 4F35S50	16	1	23	69	0								49	48	47	46	45	44	42	39	35	31	26	20				560	245
					20					50	49	48	47	46	45	44	43	41	39	36	32	27	21						
					40				49	48	47	46	45	44	42	41	40	39	36	32	27	21							
					60				47	46	44	43	42	41	40	38	37	35	32	28	22								
		3	23	53																									
7-1/2 HP* 4F35A75 4F35S75	23	3	31	69	0											50	49	48	47	45	43	40	38	36	33	31	28	810	350
					20								50	49	49	48	47	46	45	43	41	38	36	33	31	28	24		
					40							49	49	48	47	46	45	45	43	41	39	36	34	31	28	24	19		
					60						49	48	47	46	45	44	43	42	41	39	36	34	31	28	25	20			

NOTE: Pipe friction loss in drop pipe is not included in chart above.
*For 3 HP and above, refer to motor manufacturer's handbook for proper flow rates to cool motor.

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.

35 GPM • 1 - 7½ HP



Stainless Steel 2″ NPT

3.72″

Cast Iron 2″ NPT

3.72″

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

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4″ 55 GPM • 1 1/2 thru 7 1/2 HP • 3450 RPM • 60 Cycle

HP Size and Model No.	Stages	Phase	Weight		Discharge Pressure PSI	DEPTH TO WATER LEVEL IN FEET																			Maximum Pressure	
			Pump End	Motor End		20	40	60	80	100	120	140	160	180	200	220	240	260	300	350	400	450	500	550	Ft.	PSI
						CAPACITIES IN GALLONS PER MINUTE																				
1-1/2 HP 4F55A15 4F55S15	4	1	12	28	0			71	62	50	36														135	58
					20	70	60	47	33																	
					40	42	23																			
		3	12	25	60																					
2 HP 4F55A20 4F55S20	5	1	14	30	0			75	69	61	51	42	29												165	71
					20	74	68	59	50	38	15															
					40	56	45	34																		
		3	14	28	60	30																				
3 HP* 4F55A30 4F55S30	7	1	16	52	0				75	71	66	61	55	47	39	31									235	101
					20		75	70	65	59	53	46	38	28												
					40		63	57	50	43	34	15														
		3	16	43	60		48	40	32																	
5 HP* 4F55A50 4F55S50	11	1	19	69	0							74	71	68	64	61	57	53	44	30					365	158
					20					73	70	67	64	60	56	52	47	42	31							
					40			72	69	66	63	59	55	50	45	40	35	30								
		3	19	53	60			65	62	58	53	49	44	39	33	25										
7-1/2 HP* 4F55A75 4F55S75	18	3	28	69	0											74	73	71	66	62	56	49	41	33	600	259
					20								75	74	72	71	69	67	62	56	50	42	34	20		
					40						75	73	72	70	68	66	64	62	57	50	42	35	24			
					60					72	71	70	68	66	63	61	59	57	51	43	35	25				

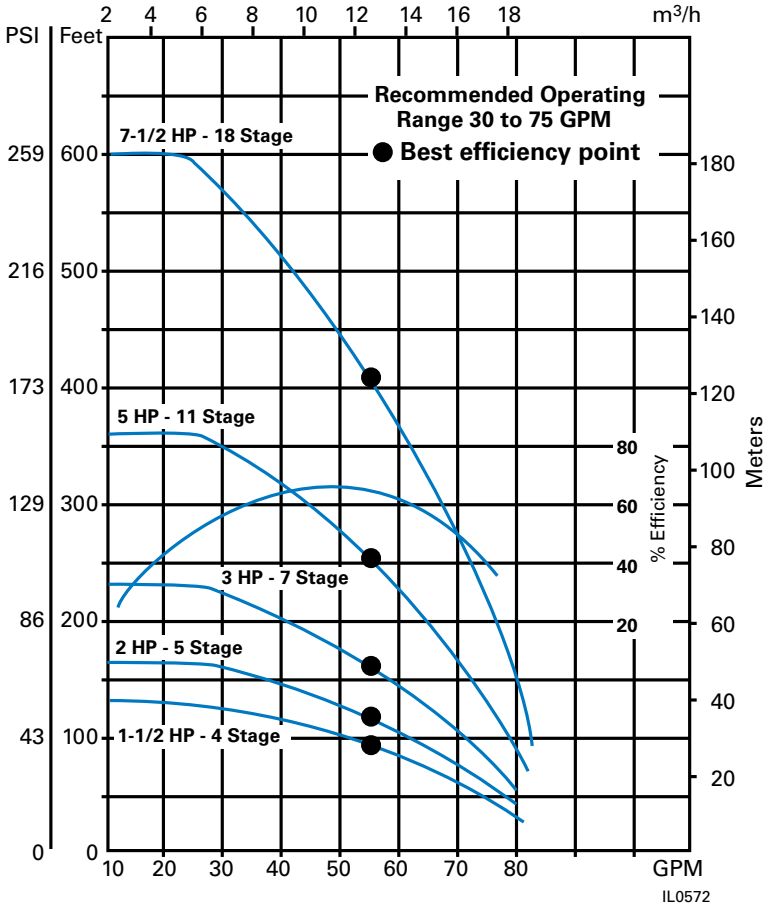
NOTE: Pipe friction loss in drop pipe is not included in chart above.
**For 3 HP and above, refer to motor manufacturer's handbook for proper flow rates to cool motor.

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.

Stainless Steel
2″ NPT

Cast Iron
2″ NPT

55 GPM • 1½ - 7½ HP



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

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4″ 85 GPM • 2 thru 7 1/2 HP • 3450 RPM • 60 Cycle

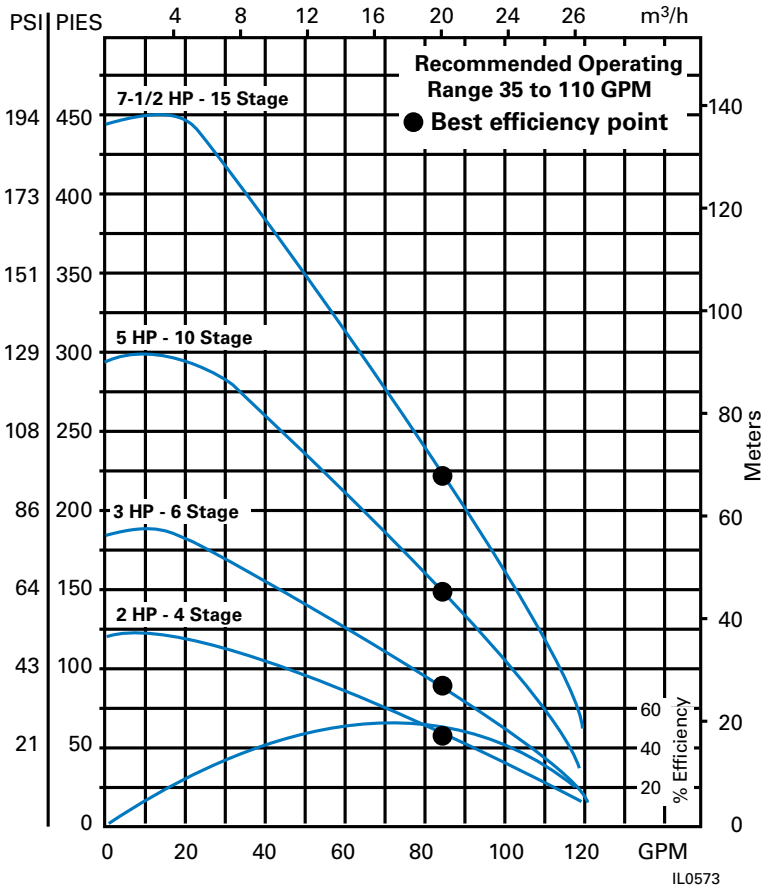
FLINT & WALLING

HP Size and Model No.	Stages	Phase	Weight		Discharge Pressure PSI	DEPTH TO WATER LEVEL IN FEET																				Max. Pressure	
			Pump End	Motor End		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	Ft.	PSI
						CAPACITIES IN GALLONS PER MINUTE																					
2 HP 4F85A20 4F85S20	4	1	13	30	0																					120	52
					20	80	105	85	64	45																	
					40	35	60	40																			
		3	13	28	60																						
3 HP* 4F85A30 4F85S30	6	1	15	52	0																					185	80
					20	101	88	103	91	77	63	51	38														
					40	70	56	75	61	48	34																
		3	15	43	60	40	25	43	30																		
5 HP* 4F85A50 4F85S50	10	1	20	69	0																					300	130
					20		108	102	110	103	95	87	79	71	63	55	48	40	32								
					40	100	91	83	94	86	78	70	62	54	46	38	30										
		3	20	53	60	81	73	65	75	67	59	51	43	36	25												
7-1/2 HP* 4F85A75 4F85S75	15	3	27	69	0							106	102	97	91	85	80	74	69	64	59	53	48	43	38	450	195
					20				110	106	101	95	90	85	79	74	68	63	57	52	47	41	36	30			
					40		109	104	99	94	88	83	77	72	66	61	56	50	45	40	34	27					
					60	103	97	92	87	81	76	70	65	59	54	49	43	38	32	25							

NOTE: Pipe friction loss in drop pipe is not included in chart above.
**For 3 HP and above, refer to motor manufacturer's handbook for proper flow rates to cool motor.

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.

85 GPM • 2 - 7½ HP



Stainless Steel 2″ NPT

3.72″

Cast Iron 2″ NPT

3.72″

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

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Model Number Code

FLINT & WALLING

5 thru 27 GPM

4 F 10 A 05 - 30 1

- 4-inch minimum well diameter
- Series
- GPM
- Material Construction
  - S - S.S. Castings, S.S. Shell
  - A - Cast Iron Castings, S.S. Shell
- Motor HP Size
- Motor Voltage and Phase
  - 00 – 115 V 1 Ph
  - 30 – 230 V 1 Ph
- Lead Type
  - 1 – 3-wire
  - 5 – 2-wire

1/2 - 1-1/2 HP Single phase pump and motor assembly includes pump/motor unit with motor leads.
Order control box for 3-wire units separately.
On 2 - 7-1/2 HP and all 3 phase units, order pump, motor and control box separately. Magnetic starters must be purchased locally.
Lead wire assembly included with motor.

1/2 thru 2 HP, 1 PH pumps feature Flint & Walling motors.
For F&W pump ends with Franklin motor, please add an "M" prefix to callout number when ordering. Example: M4F10A05301

35, 55 & 85 GPM

4 F 35 A 20

- 4-inch minimum well diameter
- Series
- GPM
- Material Construction
  - S - S.S. Castings, S.S. Shell
  - A - Cast Iron Castings, S.S. Shell
- Motor H.P. Size

On 35, 55 & 85 GPM units order pump, motor and control box separately. Magnetic starters must be purchased locally. Lead wire assembly included with motor.

HP	Voltage & Phase	Motor Type	F&W Motor Thrust Rating	F&W Motor Order No.	F&W Control Box Order Number	Motor Thrust Rating	Motor Order Number	Control Box Order Number
1/2	115V/1PH	3-Wire	300#	137426	022875	300#	M137426	127185
	230V/1PH	3-Wire	300#	137428	022876	300#	M137428	127189
	115V/1PH	2-Wire	300#	137412	N/A	300#	M137412	N/A
	230V/1PH	2-Wire	300#	137414	N/A	300#	M137414	N/A
3/4	230V/1PH	3-Wire	300#	137430	022877	300#	M137430	127197
	230V/1PH	2-Wire	300#	137416	N/A	300#	M137416	N/A
1	230V/1PH	3-Wire	650#	137432	022878	650#	M137432	126319
	230V/1PH	2-Wire	650#	137418	N/A	650#	M137418	N/A
1-1/2	230V/1PH	3-Wire	650#	137434	022879	650#	M137434	133589
	230V/1PH	2-Wire	650#	137420	N/A	650#	M137420	N/A
	200V/3PH	3-Wire	--	N/A	N/A	650#	M137457	N/A
	230V/3PH	3-Wire	--	N/A	N/A	650#	M137458	N/A
	460V/3PH	3-Wire	--	N/A	N/A	650#	M137460	N/A
2	230V/1PH	3-Wire	650#	137435	022880	650#	M137435	137224+ 126321++
	200V/3PH	3-Wire	--	N/A	N/A	650#	M137461	N/A
	230V/3PH	3-Wire	--	N/A	N/A	650#	M137462	N/A
	460V/3PH	3-Wire	--	N/A	N/A	650#	M137464	N/A

HP	Voltage & Phase	Motor Type	F&W Motor Thrust Rating	F&W Motor Order No.	F&W Control Box Order Number	Motor Thrust Rating	Motor Order Number	Control Box Order Number
3	230V/1PH	3-Wire	--	N/A	N/A	900#	M139422	136800+ 126322++
	200V/3PH	3-Wire	--	N/A	N/A	900#	M139423	N/A
	230V/3PH	3-Wire	--	N/A	N/A	900#	M139424	N/A
	460V/3PH	3-Wire	--	N/A	N/A	900#	M139425	N/A
5	230V/1PH	3-Wire	--	N/A	N/A	1500#	M137456	135269+ 137225++
	200V/3PH	3-Wire	--	N/A	N/A	1500#	M137469	N/A
	230V/3PH	3-Wire	--	N/A	N/A	1500#	M137470	N/A
	460V/3PH	3-Wire	--	N/A	N/A	1500#	M137472	N/A
7-1/2	200V/3PH	3-Wire	--	N/A	N/A	1500#	M137473	N/A
	230V/3PH	3-Wire	--	N/A	N/A	1500#	M137474	N/A
	460V/3PH	3-Wire	--	N/A	N/A	1500#	M137476	N/A

N/A Not available
\+ Deluxe control box – includes magnetic contactor. Recommended for water systems which utilize pressure switch.
++ Standard control box.

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