

Four-Inch Submersible Pumps



FOR HOME, FARM AND INDUSTRY

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
- Stainless steel motors with lightning protection - (F&W available up to 2 HP)



'S' Commander®
Series — 304 SS
Suction & Discharge

'A' Captain® Series
— Cast Iron Suction
& Discharge

5 thru 27 GPM - 'A' and 'S' Series

35 thru 85 GPM - Hi Cap 'A' and 'S' Series

*USING A MAJORITY OF U.S. COMPONENTS



Trust runs deep.®

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	
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			
Cable Guard	Stainless steel	Stainless steel or Crush-proof PVC	Stainless steel	Stainless steel or Crush-proof PVC
Staging*	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			
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 stainless steel two wire or three wire motors. (F&W available up to 2 HP).		All pumps driven by a complete selection of 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. Magnetic starters and heaters are required for three phase models. Purchase at your local electrical outlet.			

* Replacement cartridge assembly available for select models. Includes all necessary parts to restore pumps to like-new performance. No special tools required. Noryl® is a registered trademark of General Electric.



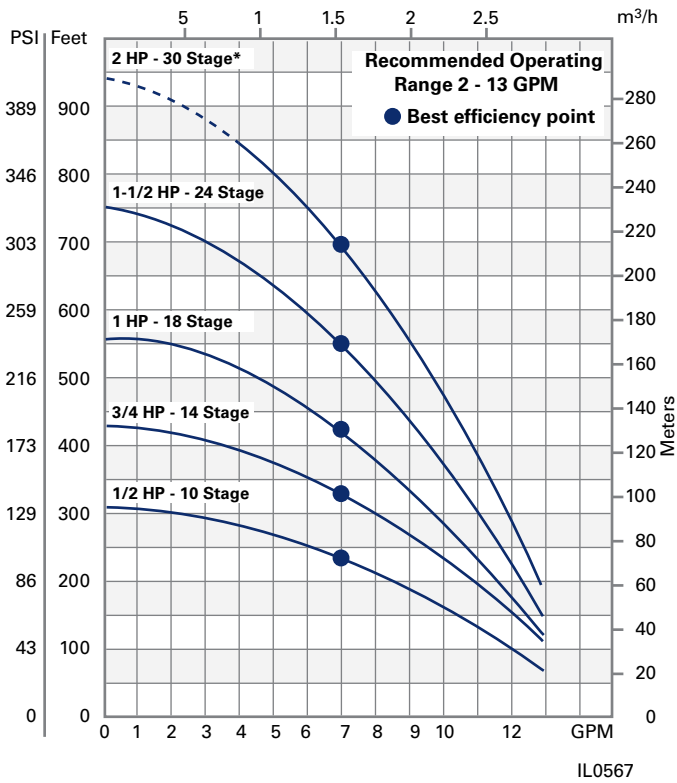
Trust runs deep.®

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

HP Size and Model No.	Stages	Weight		Disch. Press PSI	DEPTH TO WATER LEVEL IN FEET																				Max. Pressure									
		Motor Type	Ship Wt.		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																									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																						
3/4 HP 4F07A07 4F07S07 4F07G07	14	1 PH 3 Wire	33	0																									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	3.4													
				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 HP 4F07A10 4F07S10 4F07G10	18	1 PH 3 Wire	37	0																									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	7.6	6.3	4.7	2.1	1.6											
				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														
1-1/2 HP 4F07A15 4F07S15	24	1 PH 2 Wire	51	0																									745	322				
				20																														
				40				12.8	12.6	12.3	12.1	11.8	11.6	11.3	10.9	10.5	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	8.9	8.5	8.1	7.6	7.2	6.2	5.0	3.5										
2 HP 4F07A20 4F07S20	30	1 PH 3 Wire	61	0																									945	409				
				20																														
				40																														
				60																														

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.

7 GPM • 1/2 - 2 HP



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

Stainless Steel
1-1/4" NPT



← 3.72" →

Cast Iron
1-1/4" NPT



← 3.72" →



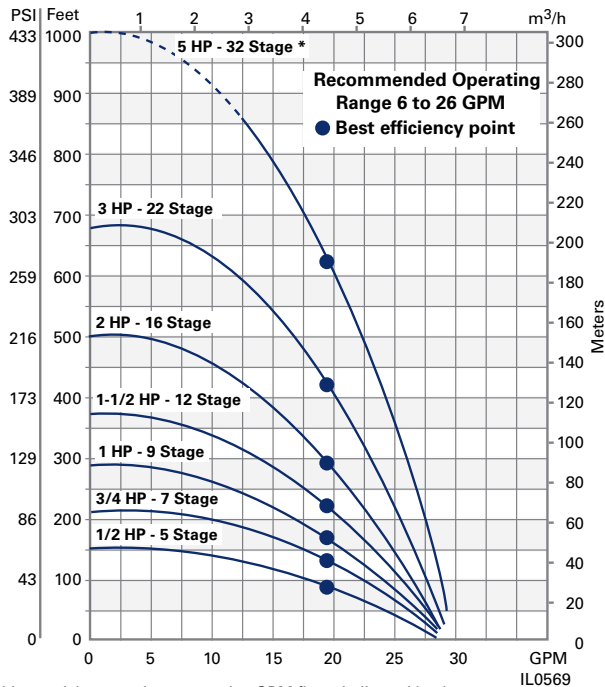
Trust runs deep.®

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

HP Size and Model No.	Stg.	Weight		Disch. Press. PSI	DEPTH TO WATER LEVEL IN FEET																				Max. Pressure					
		Motor Type	Ship Wt.		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 4F19A05 4F19S05	5	1 PH 3 Wire	28	0			24.6	22.7	20.5	17.9	15.0	10.4																155	67	
		1 PH 2 Wire	28	20	22.0	19.8	17.1	14.0	5.9																					
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	
		1 PH 2 Wire	33	20	24.4	22.9	21.4	19.5	17.5	15.3	12.4	8.6																		
			33	40	20.6	18.7	16.6	14.3	11.0	5.5																				
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
		1 PH 2 Wire	36	20	25.2	24.0	22.9	21.7	20.4	19.0	17.4	15.6	13.7	11.4	6.2															
			36	40	22.5	21.2	19.8	18.4	16.8	15.2	12.8	10.4	5.6																	
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
		1 PH 2 Wire	43	20	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													
		3 PH 3 Wire	39	40	22.1	21.1	20.2	19.2	18.2	17.1	15.8	14.4	12.7	10.4	6.3															
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
		3 PH 3 Wire	49	20	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									
			49	40	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 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	
		3 PH 3 Wire	75	20	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	17.6	16.8	14.8	12.5	9.3								
			75	40	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	12.5	9.3							
5 HP 4F19A50 4F19S50	32	1 PH 3 Wire	117	0			25.9	25.6	25.3	25.0	24.7	24.4	24.1	23.7	23.3	22.8	22.4	21.9	21.2	20.3	19.3	18.3	17.2	15.8	14.5	12.7	1000	435		
		3 PH 3 Wire	80	20	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				
			80	40	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				

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 • 1/2 - 5 HP



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

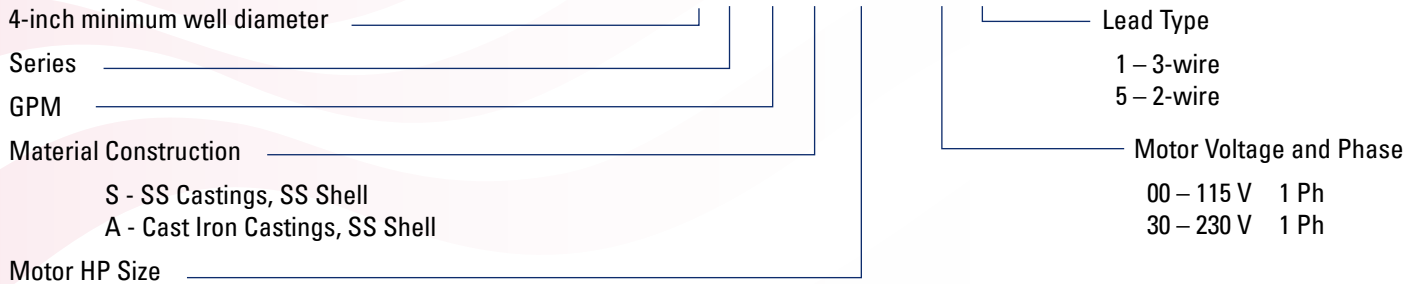


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Model Number Code

5 thru 27 GPM

4 F 10 A 05 - 30 1



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.

35, 55 & 85 GPM

4 F 35 A 20



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 Order Number	Control Box Order Number
1/2	115V/1PH	3-Wire	700#	137426	022875	M137426	127185
	230V/1PH	3-Wire	700#	137428	022876	M137428	127189
	115V/1PH	2-Wire	700#	137412	N/A	M137412	N/A
3/4	230V/1PH	2-Wire	700#	137414	N/A	M137414	N/A
	230V/1PH	3-Wire	700#	137430	022877	M137430	127197
	230V/1PH	2-Wire	700#	137416	N/A	M137416	N/A
1	230V/1PH	3-Wire	700#	137432	022878	M137432	126319
	230V/1PH	2-Wire	700#	137418	N/A	M137418	N/A
	230V/1PH	3-Wire	700#	137434	022879	M137434	133589
1-1/2	230V/1PH	2-Wire	700#	137420	N/A	M137420	N/A
	200V/3PH	3-Wire	--	N/A	N/A	M137457	N/A
	230V/3PH	3-Wire	--	N/A	N/A	M137458	N/A
	460V/3PH	3-Wire	--	N/A	N/A	M137460	N/A
2	230V/1PH	3-Wire	700#	137435	022880	M137435	137224+ 126321++
	200V/3PH	3-Wire	--	N/A	N/A	M137461	N/A
	230V/3PH	3-Wire	--	N/A	N/A	M137462	N/A
	460V/3PH	3-Wire	--	N/A	N/A	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 Order Number	Control Box Order Number
3	230V/1PH	3-Wire	--	N/A	N/A	M139422	136800+ 126322++
	200V/3PH	3-Wire	--	N/A	N/A	M139423	N/A
	230V/3PH	3-Wire	--	N/A	N/A	M139424	N/A
	460V/3PH	3-Wire	--	N/A	N/A	M139425	N/A
5	230V/1PH	3-Wire	--	N/A	N/A	M137456	135269+ 137225++
	200V/3PH	3-Wire	--	N/A	N/A	M137469	N/A
	230V/3PH	3-Wire	--	N/A	N/A	M137470	N/A
	460V/3PH	3-Wire	--	N/A	N/A	M137472	N/A
7-1/2	200V/3PH	3-Wire	--	N/A	N/A	M137473	N/A
	230V/3PH	3-Wire	--	N/A	N/A	M137474	N/A
7-1/2	460V/3PH	3-Wire	--	N/A	N/A	M137476	N/A

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

