

FMCWS-255F-HYD OASIS High Performance Hydraulic Motor Driven Centrifugal Pump

The Pro 5 Series has the same compact, close coupled design that you have come to expect with several new features to maximize life and reliability. The pump life has been enhanced with standard E-coated castings, an optional chemical resistant stainless steel wet end, and larger bearings. Oasis™ Wet Seal Technology prevents run dry failure and isolates seals from harsh chemicals. Interchangeability of parts within the Pro 5 Series simplifies stock and reduces inventory needed for field support.



SPECIFICATIONS

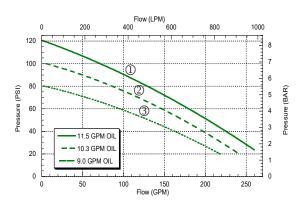
Pump Specification	ns				
Ports	300 x 220 Flange				
Max. Flow	260 GPM (984 LPM) for 304	260 GPM (984 LPM) for 306			
Max. Pressure	120 PSI (8.3 BAR) for 304	120 PSI (8.3 BAR) for 304 130 PSI (9.0 BAR) for 306			
Construction	E-coated Cast Iron or 316 Stainle	ess Steel (FS)			
Seal	Carbon ceramic / FKM	Carbon ceramic / FKM			
Shaft	Stainless Steel	Stainless Steel			
Bearings	Sealed for long life				
Impeller	Thermoplastic with Stainless Sto	eel Hub			
Wear Ring	Stainless Steel	Stainless Steel			

Motor Specifications

motor specifications					
Туре	High Efficiency Close Coupled Gear Motor				
Seal	High Pressure Do	ouble Lip Teflon			
Internal Coasting Check	Prevents Damag	kes when Turned Off			
Size	-304 -304 PWM		-306		
Maximum Flow	11 GPM (41.6 LPM)	16.5 GPM (62.5 LPM)		
Maximum Pressure	2500 PSI (172.4 BAR)	2500 PSI (172.4 BAR)		
Bypass Needle	Up to 9 GPM (34 LPM)	Not included	Up to 9 GPM (34 LPM)		
Use on HYD Systems	PC, LS, and OC	PC, LS	PC, LS, and OC		
External Reverse Check	√ 1/2″ FNPT	√ #10 SAE	√ 1/2″ FNPT		
Inlet Adapter / Restrictor Body 1/2"FNPT	√ x		√		
Restrictor Insert	✓	✓ x ✓			
-304 PWM	Integrated 12V Proportional Control Valve and Pressure Relief V for use in Precision Applications using Pulse Width Modulated control systems.				
Case Drain (Option)	Available Not Available		Not Available		
Flow Limiter (Optional)	LS-304N	LS-304N Do not use LS-306N			
Available Models					
	FMCWS-255F-H	YD-304	FMCWS-255FS-HYD-304		
	FMCWS-255F-H	YD-304-PWM	FMCWS-255FS-HYD-304-PWM		
	FMCWS-255F-H	YD-306	FMCWS-255FS-HYD-306		

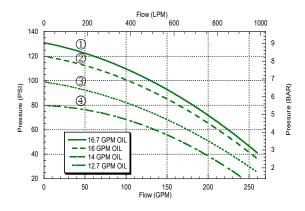
PERFORMANCE

FMCWS-255F-HYD-304

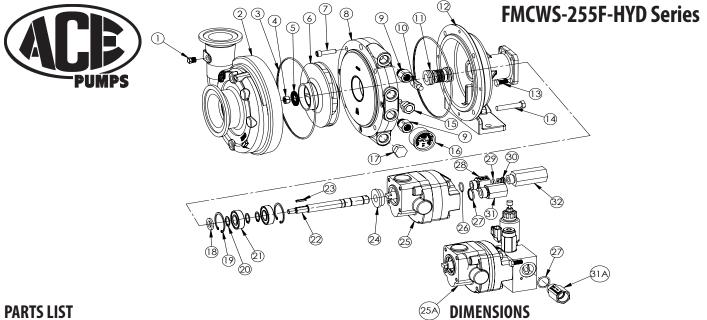


CURVE	-3	04
1	11.5 GPM	43.5 LPM
2	10.3 GPM	39.0 LPM
3	9.0 GPM	34.1 I PM

FMCWS-255F-HYD-306



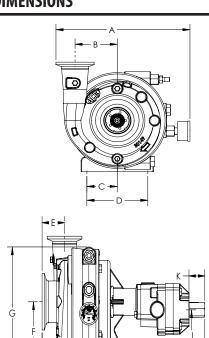
CURVE	-306			
1	16.7 GPM	63.2 LPM		
2	16.0 GPM	60.6 LPM		
3	14.0 GPM	53.0 LPM		
4	12.7 GPM	48.1 LPM		



REF.#	PART NUMER	EDP#	DESCRIPTION	REQ.
1	BAC-53	41100	Pipe plug	3
1	41120	41120	Pipe plug, stainless steel (optional)	
2A	BAC-12-255-FLG	30149	Volute , cast iron, 300 x 220 flanged, E-coated	
2B	BAC-12-255-FLG-SS	30142	Volute , stainless steel, 300 x 220 flanged	1
3 ^①	BAC-4-150	40015	O-ring, body seal	2
4	BAC-23-B-SS	40393	Nut, 3/8" NF, SS	1
5	BAC-24-B-SS	42702	Washer, 3/8" SS, vibration proof	1
6	BAC-26-255-P	40454	Impeller, thermoplastic, keyway	1
7	72762	72762	Bolt, 5/16"-18 x 1-1/4", socket head, SS	4
8A	BAC-16	45285	Seal plate, cast iron, e-coated	1
8B	BAC-16-SS	45286	Seal plate, stainless steel	1
9	41107	41107	Bushing, #8 SAE x 1/4" FNPT, w/ o-ring	2
10	41316	41316	Air valve, 1/4" NPT	1
11 [®]	BAC-7-WS	40139	Seal, dual seal assembly, Type 21, 5/8" shaft	1
12	BAC-14-5-HYD	40288	Mounting frame, cast iron, e-coated	1
13	41330	41330	Cap screw, 5/16"-16 x 3/4", hex head, motor to pump	2
14	BAC-42	40970	Cap screw, 5/16"-16 x 2", hex head	4
15	55851	55851	Sight gauge, #8 SAE, with o-ring	1
16	50150	50150	Pressure gauge, 0-160 PSI, 1/4" NPT	1
17	41108	41108	Plug, #8 SAE, hex head	1
18	BAC-54	41130	Slinger	1
19	BACH-33	40820	Snap ring, internal, mounting frame	2
20	BACH-32-HD	40385	Snap ring, external, shaft	3
21	40880	40880	Bearing	2
22	BAC-6-255-HYD-SS-WS	41583	Shaft, .625 DIA, 255, SS, WS	1
23	BAC-25	40425	Key, 1/8" x 1/8" x 13/16" SS	1
24	\$305	40163	Seal support spacer	1
25	BAC-75-HYD-304	41343	Hydraulic motor, 9 GPM (includes 24 ,25,26,27,28,29,30,31)	1
25	BAC-75-HYD-306	41312	Hydraulic motor, 16.5 GPM (includes 24,25,26,27,28,29,30A,31)	1
25A	BAC-75-HYD-304-PWM	41348	Hydraulic motor, integrated PWM valve, 9 GPM (includes 24, 25A, 26, 31A)	1
26	41875	41875	O-ring, #8 SAE fitting	2
27	41445	41445	O-ring, #10 SAE fitting	1
	BAC-80-8SAE	41455	Body, restrictor orifice, #8 SAE x 1/2" NPT, w/ O-ring	1
29	41448	41448	O-ring, restrictor	1
30	BAC-79-8	41447	Orifice insert, restrictor, w/ O-ring (304) (Do not use with 304-PWM)	1
30A	BAC-79-9	41449	Orifice insert, restrictor, w/ 0-ring (306)	1
31	BAC-78-10SAE	41442	Reverse check assembly, #10 SAE x 1/2" NPT, w/ O-ring	1
	BAC-78-10X10SAE	41467	Reverse check assembly, #10 SAE x #10 SAE, w/ O-ring	1
	LS-304N	41429	Flow limiting valve, #8 MSAE x 1/2" FNPT (304) (optional)	1
_	55032	55032	Barrier fluid, quart	-
	RK-FMCWS-PRO5	52728	Repair kit, includes items 3 (2 each), 11, and 34	-
	RK-BAC-75-HYD-300-L	41362	Repair kit; 300 series hyd motor with high pressure lip seal	_

^{*33° 55032}① RK-FMCWS-PR05
* RK-BAC-75-HYD-300-L

* Not shown in parts diagram



	r				-1				
Ref.	Α	В	C	D	E	F	G	Н	K
Inches	11.50	3.65	2.63	5.25	2.14	4.50	8.81	6.36	1.50
MM	292.1	92.7	66.8	133.4	54.4	114.3	223.8	161.5	38.1

	-3	04	-304-PWM
Ref.	ı	J	l J
Inches	15.43	3.86	15.58 3.88
MM	391.9	98.0	395.7 98.5
	-30	06	
Ref.	I	J	
Inches	15.61	3.86	
MM	396.5	98.0	

3D Model Available

https://www.3DContentCentral.com/parts/supplier /Ace-Pumps.aspx