



FEATURES

- Triplex pumps provide smooth liquid flow
- Liquid cooled, low drag seals provide long life, improved suction, higher efficiency and longer dry running without damage
- Balanced flow crankcase design and precision machining ensures uniform lubrication and quiet operation
- Manifold is designed and machined to guarantee superior fluid flow
- Zero-clearance exclusionary seals protect crankcase

QUALITY

- 100% stainless steel valve assemblies deliver greater temperature and chemical handling abilities
- Precision ground ceramic plungers utilize a proprietary material blend for long life and increased thermal shock resistance
- Forged brass manifolds offer strength and corrosion resistance
- Proprietary, proven seal blend maximizes life and increases maintenance intervals
- · Oversized crankshaft bearings for long life and quiet operation

MAINTENANCE

- No special tools required for repair or maintenance
- · Fluid end is easily serviced without entering crankcase
- · Seals require no adjustment

SPECIFICATIONS

Model 1110		US		METRIC		
Flow		23 gpm		87 lpm		
Pressure		1000 psi		70 bar		
RPM	RPM			950		
Inlet Pressure		Flooded to 70 psi	Flooded to 5 bar			
Alternative specificati	ion					
Flow		16 gpm		60 lpm		
Pressure		1500 psi		105 bar		
RPM		650		650		
Inlet Pressure		-5 o 70 psi		0-5 bar		
Inlet		1-1/4" MNPT		1-1/4" MNPT		
Outlet		1" & 3/4"		1" & 3/4"		
Oil requirement Shaft Dia.		60 oz. 1.5"		1.8 L		
				38 mm		
Max Liquid Temp.		175°F		80°C		
Shaft Location		both sides		both sides		
Weight	ght		86 lbs.		39 kg	
D DD14		ed GPM =		"Desired" GPM		
				"Desired" RPM		
Determining		x PSI		Electric Brake H.P. Required		
		160				
Determining .	Motor F	ulley OD		Pump Pulley OD		
<u> </u>		RPM	Motor RPM			

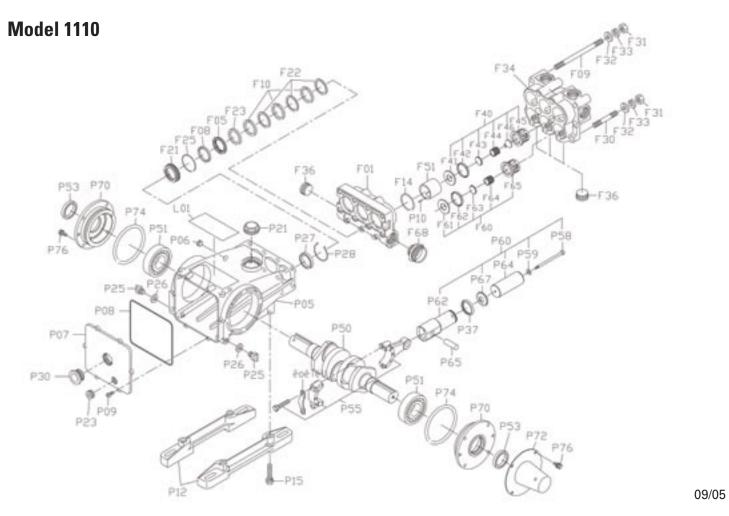
Parts List

REF.#	PART NUMBER	PART NAME	MATERIAL	ΩТΥ
F01 F05 F08 F09 F10 F14 F21 F22 F23 F35 F30 F31 F32 F33 F34 F36 F40 F41 F42 F43 F45 F46 F51 F60 F61 F62 F63 F64 F65 F68	0443001010 0443001200 04430014K0 0440001100 04430014Y0 9202F25045 0443001270 0443001272 9203B15050 0440001140 9140B12000 9162B12000 9163F12000 0443003200 0443003300 0443003340 0443003350 0443003370 0443003390 0443003390 0443003340 0443003390 0443003320 0443003390 0443003390 0443003390 0443003390 0443003320 0443003390 0443003350 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390 0443003390	MANIFOLD, INLET SEAL RETAINER VACUUM SEAL STUD BOLT SEAL, PACKING O-RING, MANIFOLD SEAL HOLDER SPACER, SEAL SEAL SUPPORT O-RING STUD BOLT HEX NUT WASHER LOCK WASHER MANIFOLD, DISCHARGE PLUG VALVE ASSEMBLY, DISCHARGE SEAT GASKET, VALVE DISC SPRING CAGE GUIDE SLEEVE VALVE ASSEMBLY, INLET SEAT GASKET DISC SPRING CAGE GUISC SPRING CAGE GUIDE SLEEVE VALVE ASSEMBLY, INLET SEAT GASKET DISC SPRING CAGE INLET FITTING	STAINLESS NBR STAINLESS STAINLESS BRASS BRASS STAINLESS NBR STAINLESS STAINLESS STAINLESS STAINLESS STAINLESS STAINLESS STAINLESS STAINLESS	1
P05 P06 P07 P08 P09 P10 P12 P15 P21 P25 P23 P27 P28 P30 P37 P50 P51 P53 P55 P60 P58 P62 P64 P65 P64 P65 P70 P72 P74 P76	0440002010 9313A11000 0440002040 0440002050 9130B06020 0440001110 0400002200 9106B10055 0589112300 0090002320 0090002340 9313A11500 0440002400 0440002400 0440002400 0440004010 0440004010 0440004020 0440004030 0440004030 04430047S0 9120R05105 0121114852 0440004860 0443004850 0440004800 0443004850 0440004400 040004430 9201B50105 9106B08025	CRANKCASE PLUG BACK COVER GASKET SCREW DOWEL PIN MOUNTING FEET BOLT OIL CAP DRAIN PLUG PLUG GASKET PLUG OIL SEAL RETAINER SIGHT GLASS EXCLUSION SEAL CRANKSHAFT BEARING OIL SEAL, BEARING CON-ROD ASSEMBLY PLUNGER ASSEMBLY PLUNGER GUIDE ROD ASSEMBLY PLUNGER	ALUMINUM STEEL ALUMINUM NBR PLATED STEEL STAINLESS ALUMINUM STEEL FP FP NBR STEEL NBR STAINLESS FP NBR STEEL NBR ALUMINUM STAINLESS COPPER STEEL/STAINLESS CERAMIC STEEL BRASS ALUMINUM PLATED STEEL NBR STEEL	1111632412213313132333333332128

^{*} Material listed may be a proprietary version. Parts names without part numbers are only available within complete assemblies.

^{*} Material codes: FP=Flouropolymer, NBR=Medium Nitrile (Buna-N), FPF=Flouropolymer Fiber STAINLESS=Stainless Steal (300 Series)

Exploded View

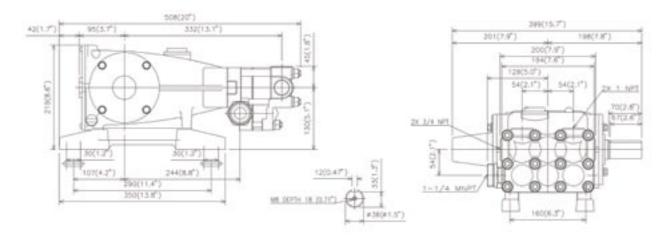


REF. #	PART NUMBER	PART NAME	MATERIAL	ОТУ
	30117 30118 30119 30103	SEAL KIT, 1110 (INCLUDES F08, F10, F22, F23, F25) VALVE KIT, INLET VALVE KIT, OUTLET OIL, BOTTLE (32 OZ) ISO 100	STAINLESS STAINLESS	1 1 1
Recomm	ended Accessories			
	70101	110105 REGULATOR, 30 gpm, 1500 PSI	BRONZE/STAINLESS	1

Horsepower Requirements			Pressure (psi)						
		RPM	GPM	LPM	900	1000	1100	1200	1500
		650	16.0 19.5	62.7	9.6	10.7	11.7	12.8	16.0
	1110	800	19.5	77.2	11.7	13.0	14.3	15.6	
		950	23.0	91.7	13.8	15.3			

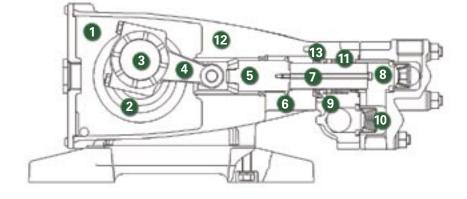


DIMENSIONS (mm/in.)



CUTAWAY

- 1 High strength, lightweight die cast crankcase
- Oversized crankshaft bearings for long life and quiet operation
- 3 Crankshaft is machined for low friction, quiet operation and high efficiency
- 4 High strength connecting rods are tolerance matched for extended life and low friction operation
- High polish stainless steel plunger rods for smooth operation and even wear



- 6 Zero clearance, polymer exclusionary seal protects pump crankcase from fluid entry and will not corrode
- 7 Proprietary blend, solid ceramic plungers for long wear and increased thermal shock resistance
- 8 Forged brass manifolds for strength and corrosion resistance, machined to optimize fluid flow and performance while extending useful life
- 9 Liquid-cooled, low drag seals provide long life, extended run-dry ability and increased suction lift
- 10 100% stainless steel valve construction provides superior protection against chemical and temperature damage
- 11 Industrial, continuous-duty seal design for superior life and expanded fluid handling abilitites
- 12 Balanced flow crankcase ensures lubrication and quiet operation
- 13 Slide-in seal cases mean no special tools are required, making seal replacement easy



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