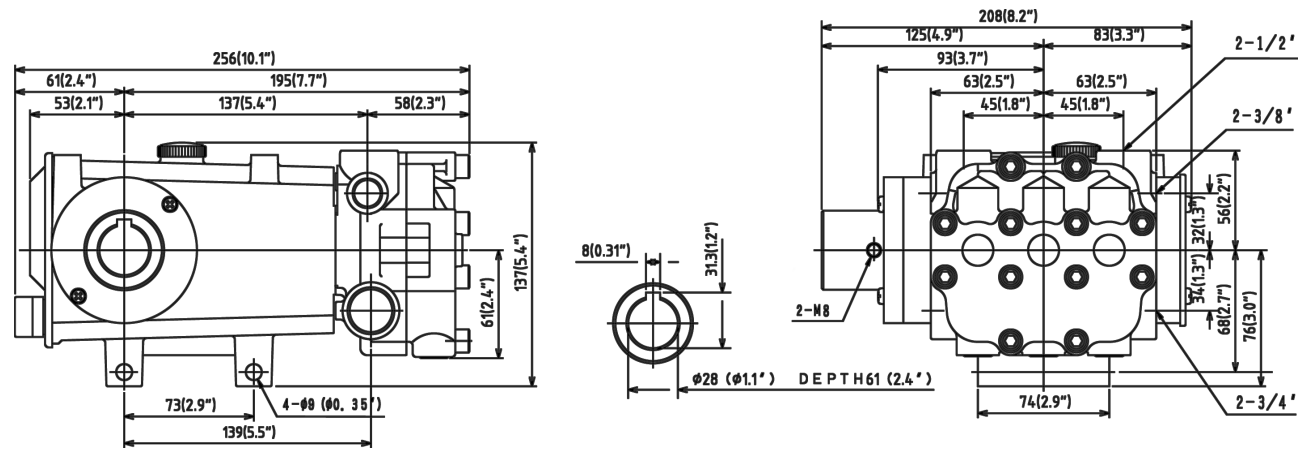
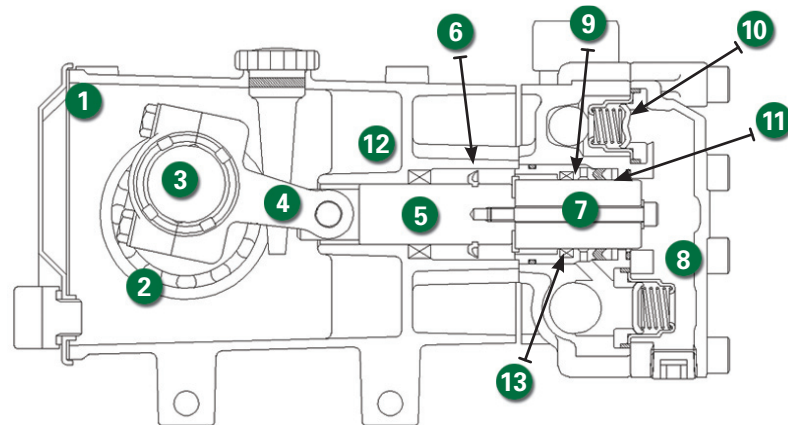


DIMENSIONS (mm/in.)



CUTAWAY

- 1 High strength, lightweight die cast crankcase
- 2 Oversized crankshaft bearings for long life and quiet operation
- 3 Forged 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
- 5 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 Mechanically-loaded seals require no adjustment and self-compensate for wear
- 12 Balanced flow crankcase ensures lubrication and quiet operation
- 13 Slide-in seal cases mean no special tools are required, making seal replacement easy

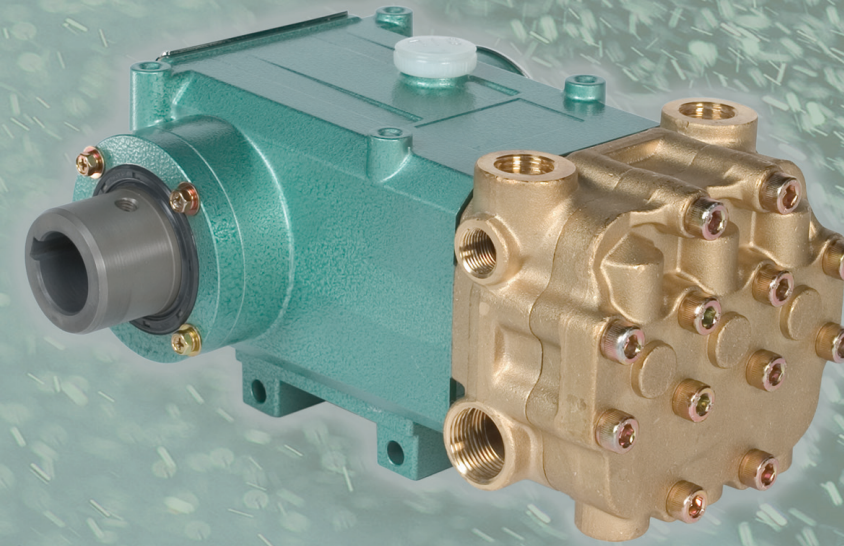


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Manufactured by Arimitsu Industry Co., Ltd., of Osaka, Japan, a leading supplier of Industrial plunger pumps and systems used by Industrial leaders throughout the World.



Rev.2, 5H Series, 510, (12-22)



Floating 5 Series Model 510

FEATURES

- Unique mounting technology increases life and decreases noise (pat. pending)
- 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
- Easy access seal case and valve assemblies
- Seals require no adjustment

SPECIFICATIONS

Model 510	US	METRIC
Flow	7.5 gpm	28 lpm
Pressure	1200 psi	83 bar
RPM	1800	1800
Inlet Pressure	flooded to 70 psi	1 to 5 bar
Inlet	3/4"	3/4"
Outlet	1/2" & 3/8"	1/2" & 3/8"
Oil requirement	19 oz.	.55 L
Shaft Dia.	1.102"	28 mm
Max Liquid Temp.	175°F	80°C
Shaft Location	L or R	L or R
Weight	21 lbs.	9.5 kg

Determining Pump RPM	$\frac{\text{Rated GPM}}{\text{Rated RPM}}$	=	$\frac{\text{"Desired" GPM}}{\text{"Desired" RPM}}$
Determining Required HP	$\frac{\text{GPM} \times \text{PSI}}{1460}$	=	Electric Brake H.P. Required
Determining Motor Pulley Size	$\frac{\text{Motor Pulley OD}}{\text{Pump RPM}}$	=	$\frac{\text{Pump Pulley OD}}{\text{Motor RPM}}$

Parts List

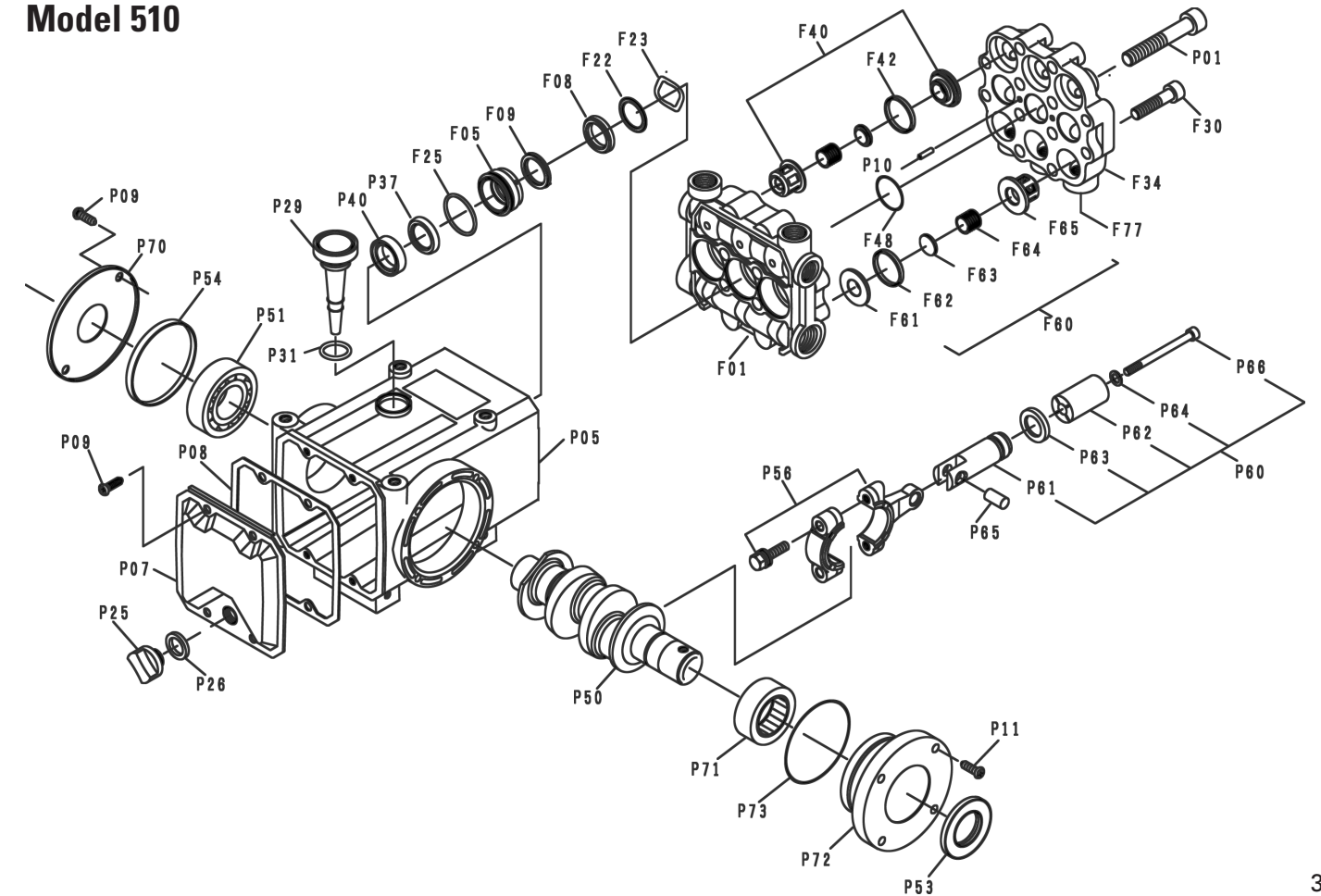
REF. #	PART NUMBER	PART NAME	MATERIAL	QTY
F01	0257101010	MANIFOLD, PORTED	BRASS	1
F05	A3050	SEAL RETAINER	BRASS	3
F08	A3163	V-PACKING	NBR/TEXTILE	3
F09	02570012301	VACUUM SEAL	NBR	3
F22	A3256	SPREADER	BRASS	3
F23	A3244	WAVE WASHER	STAINLESS	3
F25	9203B15032	O-RING, RETAINER	NBR	3
F30	A3236	BOLT, MANIFOLD	PLATED STEEL	8
F34	0257103200	MANIFOLD, VALVES	BRASS	1
F40	A3148	VALVE ASSEMBLY, OUTLET	STAINLESS	3
F42	A3146	GASKET	NBR	3
F48	A3224	O-RING, MANIFOLD	NBR	3
F60	A3149	VALVE ASSEMBLY, INLET	STAINLESS	3
F62	A3222	GASKET	NBR	3
F77	A3351	PLUG, MANIFOLD	BRASS	3
P01	A3227	BOLT, HEAD	PLATED STEEL	4
P05	027790201	CRANKCASE	ALUMINUM	1
P07	A3353	COVER	PLATED STEEL	1
P08	A3048	GASKET	BONDED PAPER	1
P09	A3228	SCREW	PLATED STEEL	6
P10	A3354	DOWEL PIN, MANIFOLD	STEEL	2
P11	A3355	BOLT	PLATED	4
P25	A3356	DRAIN PLUG	FP	1
P26	A3343	GASKET	NBR	1
P29	A3260	OIL DIPSTICK ASSEMBLY	FP	1
P31	A3305	O-RING, DIPSTICK	NBR	1
P37	A3055	WATER SLINGER	NBR/FP	3
P40	0256302400	OIL SEAL	NBR	3
P50	A3357	CRANKSHAFT	STEEL	1
P51	A3049	BEARING	STEEL	1
P53	A3054	OIL SEAL, SHAFT	NBR	1
P54	A3276	COVER	NBR	1
P56	A3271	CON-ROD ASSEMBLY	ALUM/STEEL	3
P60	02775347S0	PLUNGER ASSEMBLY		3
P61	A3056	ROD	STAINLESS	3
P62	A3080	PLUNGER	CERAMIC	3
P63	A3051	SPACER	BRASS	3
P64	A3264	GASKET	COPPER	3
P66	9120R05060	BOLT, PLUNGER	STAINLESS	3
P65	A3047	PIN, PLUNGER	STAINLESS	3
P70	02560044201	COVER, BEARING	PLATED STEEL	2
P71	A3359	BEARING, ROLLER	STEEL	1
P72	02755044201	COVER, BEARING	ALUMINUM	1
P73	A3100	O-RING, COVER	NBR	1

* 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), STAINLESS=Stainless Steel (300 Series)

Exploded View

Model 510



3/07

REF. #	PART NUMBER	PART NAME	MATERIAL	QTY
	A8037	OIL, BOTTLE, 32oz., ISO 100		1
	A1009	VALVE KIT, INLET (F60, F62)	STAINLESS/NBR	1
	A1010	VALVE KIT, OUTLET (F40, F42)	STAINLESS/NBR	1
	A1014	SEAL KIT (F08, F09, F25)	NBR	1
	A3162	BRACKET KIT, FLOATING	COATED STEEL	1
Recommended Accessories				
	70100	6085 REGULATOR, 15 GPM, 1200 PSI	BRONZE/CERAMIC	1

Horsepower Requirements

	Pressure (psi)							
	RPM	GPM	LPM	500	750	1000	1100	1200
510	600	2.5	9.5	0.8	1.3	1.7	1.9	2.0
	1200	5.0	19.0	1.7	2.5	3.3	3.7	4.0
	1800	7.5	28.4	2.5	3.8	5.0	5.5	6.0