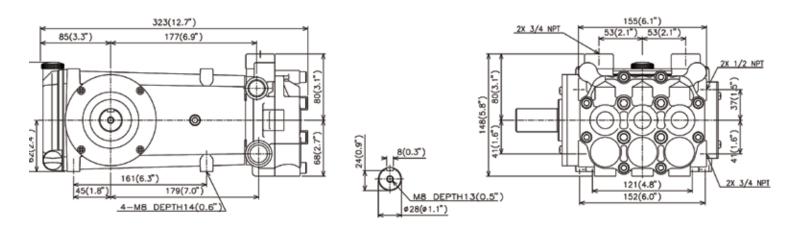


### **DIMENSIONS** (mm/in.)

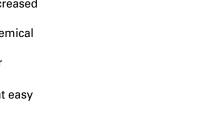


#### **CUTAWAY**

- 1 High strength, lightweight die cast crankcase
- Oversized crankshaft 2 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
- 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
- Forged brass manifolds for strength and corrosion resistance, machined to optimize fluid 8 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
- Mechanically-loaded seals require no adjustment and self-compensate for wear 11
- Balanced flow crankcase ensures lubrication and quiet operation 12
- 13 Slide-in seal cases mean no special tools are required, making seal replacement easy



Arimitsu of North America, Inc. 700 McKinley St. NW Anoka, MN 55303 ph: 763.433.0303 fax: 763.433.0404 www.arimitsupumps.com









## **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
- · Easy access seal case and valve assemblies
- · Seals require no adjustment

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

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Rev.1, Model 709, (2-06) Part # 101

### **SPECIFICATIONS**

Model 709	U	S		METRIC		
Flow	15 g	Ipm		57 lpm		
Pressure	1100	) psi		75 bar		
RPM	95	50		950		
Inlet Pressure	-5 to 7	70 psi		0-5 bar		
Inlet	3/4	4″		3/4"		
Outlet	1/2" 8	a 3/4″		1/2" & 3/4"		
Oil requirement	37	oz.		1.1 L		
Shaft Dia.	1.10	)2″		28mm		
Max Liquid Temp.	175	5°F		80°C		
Shaft Location	Lo	r R		L or R		
Weight	33	bs.		15 kg		
Determining	Rated GPM			"Desired" GPM		
Pump RPM	Rated RPM	RPM		"Desired" RPM		
Determining	GPM x PSI			Electric Brake H.P. Required		
Required HP	1460			n.r. nequirea		
Determining	Motor Pulley OD			Pump Pulley OD		

Motor Pulley Size

Pump RPM

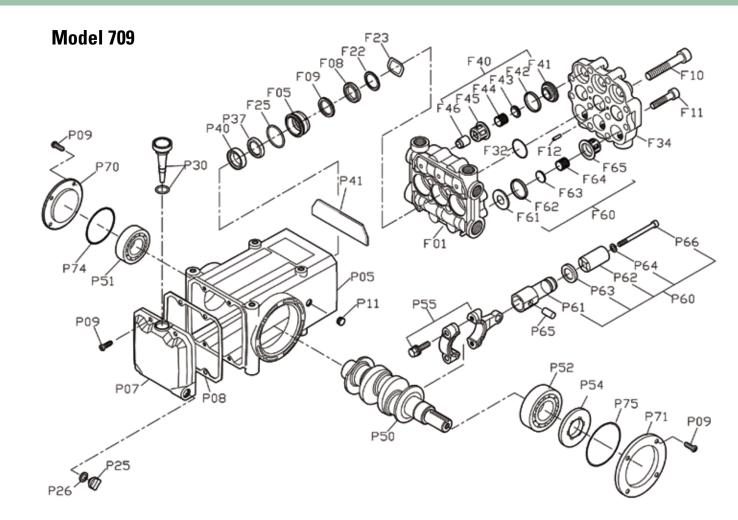
Motor RPM

# Parts List

Ε	Х	р	

REF. #	PART NUMBER	PART NAME	MATERIAL	<b>QTY</b>
F01	0361001010	MANIFOLD, PORTED	BRASS	1
F05	0361501200	SEAL RETAINER	BRASS	3
F06	03615014000A	SEAL ASSEMBLY		3
F08	(included in F06)	V-PACKING	NBR/TEXTILE	3
F09	(included in F06)	VACUUM SEAL	NBR	3
F10	0361001100	BOLT, HEAD	PLATED STEEL	4
F11	0361001140	BOLT, MANIFOLD	PLATED STEEL	8
F12	0361001110	DOWEL, MANIFOLD	PLATED STEEL	2
F22	0361501430	SPREADER	BRASS	2 3
F23	0270101450	WAVE WASHER	STAINLESS	3
F25	9203B15040	O-RING, RETAINER	NBR	3
F32	9203F15034	O-RING, MANIFOLD	NBR	3
F34	03610032001	MANIFOLD, VALVES	BRASS	1
F40	03615033002	VALVE ASSEMBLY, OUTLET		
F41	(included in F40)	SEAT	STAINLESS	3 3
F42	0361003340	GASKET	NBR	3
F43	(included in F40)	DISC	STAINLESS	3
F44	(included in F40)	SPRING	STAINLESS	3
F45	(included in F40)	CAGE	STAINLESS	3
F46	(included in F40)	GUIDE	BRASS	3
F60	03610038001	VALVE ASSEMBLY, INLET	BIASS	3
F61	(included in F60)	SEAT	STAINLESS	3
F62	0361003840	PACKING	NBR	3
F62 F63	(included in F60)	DISC	STAINLESS	3
F64				
F64 F65	(included in F60)	SPRING	STAINLESS	3 3
F00	(included in F60)	CAGE	STAINLESS	3
P05	0366002010	CRANKCASE	ALUMINUM	1
P07	0366002040	BACK COVER	ALUMINUM	1
P08	0270102050	GASKET	BONDED PAPER	1
P09	9138A05015	SCREW, PHILLIPS	PLATED STEEL	12
P11	9313A10800	PLUG	STEEL	1
P25	0090002320	DRAIN PLUG	FP	2
P26	0090002340	GASKET	NBR	2
P30	02701026001	OIL DIPSTICK ASSEMBLY	FP	1
P37	0366001730	WATER SLINGER	NBR/FP	3
P40	0220002400	OIL SEAL	NBR	3
P41	0366792800	GASKET	CFR	1
P50	03611040101	CRANKSHAFT	STEEL	1
P51	9180630600	BEARING	STEEL	1
P52	9180621000	BEARING, SHAFT	STEEL	1
P54	0613112410	OIL SEAL, BEARING	NBR	1
P55	0180004600	CON-ROD ASSEMBLY	ALUM/STEEL	3
P60	03660047S0	PLUNGER ASSEMBLY	ALOW/STELL	3
P61	0366004860	GUIDE ASSEMBLY	STEEL/STAINLESS	3
P62		PLUNGER	CERAMIC	3
P62 P63	03610048S0 03610048501			3
	03610048501 0121114852	SPACER	BRASS	3
P64			COPPER	
P65	03200049001		STEEL	3
P66	9120R05065	BOLT, PLUNGER	STAINLESS	3
P70	0365004420	COVER, BEARING	PLATED STEEL	1
P71	0366004430	COVER, BEARING, SHAFT	ALUMINUM	1
P74	0361004425	O-RING, COVER, BEARING O-RING, COVER, SHAFT	NBR	1
P75	9203B15090		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), CFR=Foam Rubber STAINLESS=Stainless Steel (300 Series)



REF. #	PART NUMBER	PART NAME	MATERIAL	QTY
	30105	SEAL KIT, 709 (F06, F25)		1
	30106 30116	VALVE KIT, INLET (F60, F62) VALVE KIT, OUTLET (F40, F42)	STAINLESS/NBR STAINLESS/NBR	1
	30109	RAIL SET, 7 SERIES	PLATED STEEL	1
Recomme				
	70100	6085 REGULATOR, 15 GPM, 1200	PSI BRONZE/CERAMIC	1

Horsepower Requirements				Pre	ssure	(		
		RPM	GPM	LPM	800	900	1000	
		760	12.5	48.4	6.9	7.7	8.6	
	709	920	15.0	58.5	8.2	9.2	10.3	
		1050	17.1	66.8	9.4	10.6		

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