

# PRESSURE CLEANING PUMPS

T Series 49, Duplex Plunger Pump, Solid Shaft – Duplex pulsing action for improved impacted cleaning, ideal for drain cleaning and jetting applications. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .625 in./16 mm I.D.**

**Pump Dimensions: 8.8" x 6.8" x 5.4" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**

**Crankcase Oil Capacity: 10.1 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T9721B	2.1 GPM	1000 PSI	1750 RPM	.787 in./20 mm	.307 in./7.8 mm	1.4 EBHP	11.0 lbs.
T721B	2.2 GPM	1200 PSI	1450 RPM	.787 in./20 mm	.374 in./9.5 mm	1.8 EBHP	11.0 lbs.
T9731B	2.85 GPM	1000 PSI	1750 RPM	.787 in./20 mm	.414 in./10.5 mm	2.0 EBHP	11.0 lbs.
T731B	3.0 GPM	1200 PSI	1450 RPM	.787 in./20 mm	.472 in./12.0 mm	2.5 EBHP	11.0 lbs.
T731B	3.5 GPM	1000 PSI	1750 RPM	.787 in./20 mm	.472 in./12.0 mm	2.4 EBHP	11.0 lbs.



**T721B**

T Series 49, Duplex Plunger Pump, Hollow Shaft, NEMA 56 C Flange for Direct Couple to Electric Motors – Duplex pump specifically designed for the demands of the water jetting industry. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .625 in./16 mm I.D.**

**Pump Dimensions: 8.8" x 6.8" x 5.4" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**

**Crankcase Oil Capacity: 10.1 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T9711EBF	1.70 GPM	1500 PSI	1750 RPM	.787 in./20 mm	.260 in./6.6 mm	1.7 EBHP	16.0 lbs.
T9721EBF	2.11 GPM	1500 PSI	1750 RPM	.787 in./20 mm	.307 in./7.8 mm	2.2 EBHP	16.0 lbs.
T9731EBF	2.85 GPM	1500 PSI	1750 RPM	.787 in./20 mm	.413 in./10.5 mm	2.9 EBHP	16.0 lbs.



**T9721EBF**

TT Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-56C) – Ideal for all general cleaning and misting applications. Forged brass manifold with exclusive lifetime warranty.

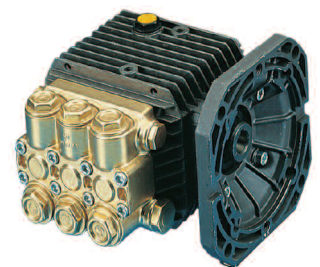
**Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F**

**Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .625 in./16 mm**

**Pump Dimensions: 7.0" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**

**Crankcase Oil Capacity: 11.2 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT2021EBF	2.1 GPM	2000 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.9 EBHP	11.5 lbs.
T9051EBF	2.11 GPM	1500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	2.2 EBHP	11.5 lbs.
TT9061EBF	2.11 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.2 EBHP	11.5 lbs.
TT2028EBF	2.8 GPM	2000 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	3.8 EBHP	11.5 lbs.
TT9071EBF	2.8 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	2.9 EBHP	11.5 lbs.
TT9111EBF	3.0 GPM	1500 PSI	1750 RPM	.709 in./18 mm	.370 in./9.4 mm	3.1 EBHP	11.5 lbs.

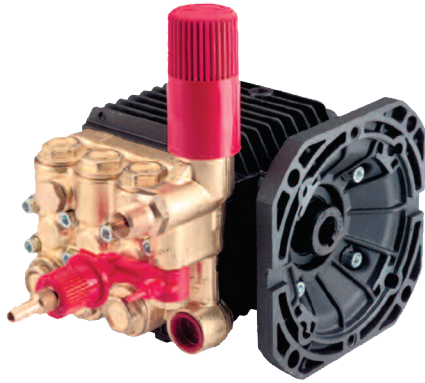


**TT1505EBF**

**Shaft: 3/4 in./19 mm**

TT2035EBF	3.5 GPM	2000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	4.8 EBHP	11.5 lbs.
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# PRESSURE CLEANING PUMPS



**TT9061EBFUI**

TT Series 51, Triplex Plunger Pump with Built-in Unloader, Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-56C). Ideal for all general cleaning and misting applications. Forged brass manifold with exclusive lifetime warranty.

**Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-M Discharge Port Thread: 3/8" - 19 BSP-M Shaft Diameter: .625 in./16 mm Pump Dimensions: 7.0" x 7.2" x 8.0" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Crankcase Oil Capacity: 11.2 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT9051EBFU	2.11 GPM	1500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	2.2 EBHP	12.0 lbs.
TT9061EBFU	2.11 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.2 EBHP	12.0 lbs.
TT9071EBFU	2.8 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	2.9 EBHP	12.0 lbs.

**Pump with Built-in Unloader and Downstream Injector**

TT9061EBFUI	2.11 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	2.2 EBHP	12.0 lbs.
T9051EBFUI	2.11 GPM	1500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	2.2 EBHP	12.0 lbs.
TT9071EBFUI	2.8 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	2.9 EBHP	12.0 lbs.
TT2035EBFUI	3.5 GPM	2000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	4.8 EBHP	12.0 lbs.

TT Series 51, Triplex Plunger Pump, Hollow Shaft, SAE J609A Flanged for Direct Couple to Gasoline Engines – Ideal for all general cleaning applications. Forged brass manifold with an exclusive lifetime warranty.

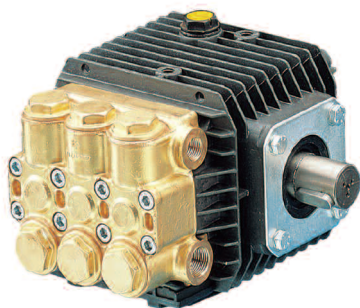
**Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .750 in./19 mm Pump Dimensions: 7.2" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Crankcase Oil Capacity: 11.2 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT9061GBF	2.11 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	3.3 GHP	11.4 lbs.
TT2028GBF	2.8 GPM	2000 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	5.8 GHP	11.4 lbs.
TT9071GBF	2.8 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	4.3 GHP	11.4 lbs.
TT2035GBF	3.5 GPM	2000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	7.2 GHP	11.4 lbs.
TT1540GBF	4.0 GPM	1500 PSI	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	6.2 GHP	11.4 lbs.

TT Series 51, Triplex Plunger Pump with Solid Shaft – Standard with 24 mm solid shaft for pulley mount or direct drive with flex coupler and bell housing. Ideal for all general cleaning applications. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .945 in./24 mm Pump Dimensions: 7.0" x 6.9" x 5.1" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Crankcase Oil Capacity: 11.2 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TT901	2.11 GPM	1500 PSI	2800 RPM	.591 in./15 mm	.236 in./6.0 mm	2.2 EBHP	11.2 lbs.
TT951	2.5 GPM	1500 PSI	2800 RPM	.591 in./15 mm	.283 in./7.2 mm	2.6 EBHP	11.2 lbs.
TT931	2.9 GPM	1500 PSI	2800 RPM	.591 in./15 mm	.315 in./8.0 mm	3.0 EBHP	11.2 lbs.
TT9111	3.0 GPM	1500 PSI	1750 RPM	.780 in./18 mm	.370 in./9.4 mm	3.1 EBHP	11.2 lbs.
TT941	3.43 GPM	1500 PSI	2800 RPM	.591 in./15 mm	.370 in./9.4 mm	3.5 EBHP	11.2 lbs.



**TT901**

# PRESSURE CLEANING PUMPS

TP Series 51, Triplex Plunger Pump, Hollow Shaft, Flanged for Direct Couple to Gasoline Engines – New, oversized connecting rods for ultimate crankcase performance. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 80 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/8" - 19 BSP-F**

**Discharge Port Thread: 1/4" - 19 BSP-F Shaft Diameter: .750 in./19 mm**

**Pump Dimensions: 7.0" x 7.2" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**

**Crankcase Oil Capacity: 11.0 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TP2520J34	1.9 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	4.9 GHP	11.4 lbs.
TP2526J34	2.6 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.260 in./6.6 mm	6.7 GHP	11.4 lbs.
TP2530J34	2.88 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	7.4 GHP	11.4 lbs.
TP2533J34	3.3 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.5 GHP	11.4 lbs.



**TP2520J34**

TP Series 51, Triplex Plunger Pump with Built-in Unloader and Downstream Injector, Hollow Shaft, Flanged for Direct Couple to Gasoline Engines.

**Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-M Use GP Series 100 Oil, (see page 57)**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TP2520J34UIL	1.9 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	4.9 GHP	11.4 lbs.
TP2526J34UIL	2.6 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	7.2 GHP	11.4 lbs.
TP2530J34UIL	2.88 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.0 GHP	11.4 lbs.
TP2533J34UIL	3.3 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.5 GHP	11.4 lbs.



**TP2530J34UIL**

TC Series 60, Triplex Plunger Pump, Compact Design, Solid Shaft – New long life low-pressure seal, oversized bearings and sight glass. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm Gauge Port: 1/8"**

**Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Pump Dimensions: 7.6" x 8.0" x 4.9"**

**Crankcase Oil Capacity: 11.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	SHP HP	WGHT
TC1509S17	1.75 GPM	2500 PSI	1450 RPM	.591 in./15 mm	.370 in./9.4 mm	3.0 EBHP	15.2 lbs.
TC1509S17	2.10 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.6 EBHP	15.2 lbs.
TC1511S17	2.10 GPM	2500 PSI	1450 RPM	.591 in./15 mm	.453 in./11.5 mm	3.6 EBHP	15.2 lbs.
TC1809S17	2.50 GPM	2200 PSI	1450 RPM	.709 in./18 mm	.370 in./9.4 mm	3.77 EBHP	15.2 lbs.
TC1511S17	2.60 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.453 in./11.5 mm	4.45 EBHP	15.2 lbs.
TC1809S17	3.10 GPM	2200 PSI	1750 RPM	.709 in./18 mm	.370 in./9.4 mm	4.67 EBHP	15.2 lbs.
TC1811S17	3.25 GPM	2200 PSI	1450 RPM	.709 in./18 mm	.453 in./11.5 mm	4.9 EBHP	15.2 lbs.
TC1811S17	3.90 GPM	2200 PSI	1750 RPM	.709 in./18 mm	.453 in./11.5 mm	5.88 EBHP	15.2 lbs.

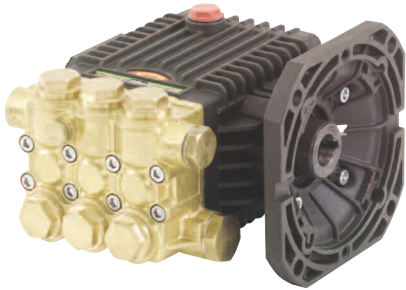


**TC1509S17**

**Max. Inlet Required: Flooded**

TC1507S34	3.0 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55 EBHP	15.2 lbs.
TC1508S34	3.3 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	5.65 EBHP	15.2 lbs.

# PRESSURE CLEANING PUMPS



**TC1508E175**

TC Series 60, Triplex Plunger Pump, Compact Design, 5/8" Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA 56C) – New long life low-pressure seal, oversized bearings and sight glass. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .625 in./16 mm Gauge Port: 1/8" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Pump Dimensions: 7.8" x 7.3" x 5.5" Crankcase Oil Capacity: 11.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1502E175	0.25 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.079 in./2.0 mm	0.5 EBHP	15.1 lbs.
TC1802E175	0.5 GPM	2200 PSI	1750 RPM	.709 in./18 mm	.079 in./2.0 mm	0.8 EBHP	15.1 lbs.
TC1508E175	1.75 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.315 in./8.0 mm	3.0 EBHP	15.1 lbs.
TC1509E175	2.10 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.6 EBHP	15.1 lbs.
TC1809E175	3.10 GPM	2200 PSI	1750 RPM	.709 in./18 mm	.370 in./9.4 mm	4.7 EBHP	15.1 lbs.



**TC1809E17N**

**Max. Inlet Vacuum: Flooded**

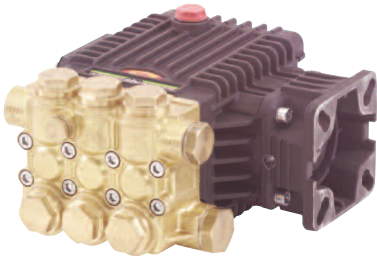
TC1504E345	1.75 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.158 in./4.0 mm	3.2 EBHP	15.1 lbs.
TC1505E345	2.1 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	3.88 EBHP	15.1 lbs.
TC1506E345	2.6 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	4.81 EBHP	15.1 lbs.
TC1507E345	3.0 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55 EBHP	15.1 lbs.

**No Flange for Direct Couple to Motor**

TC1509E17N	2.1 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.370 in./9.4 mm	3.6 EBHP	15.1 lbs.
TC1809E17N	3.1 GPM	2200 PSI	1750 RPM	.708 in./18 mm	.370 in./9.4 mm	4.7 EBHP	15.1 lbs.

TC Series 60, Triplex Plunger Pump, Compact Design, 3/4" Hollow Shaft 56C Flange for Direct Coupling to Modified 56C Electric Motors.

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1506E346	2.6 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	4.81 EBHP	15.1 lbs.
TC1507E346	3.0 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	5.55 EBHP	15.1 lbs.
TC1508E346	3.3 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	5.65 EBHP	15.1 lbs.



**TC1506G**

TC Series 60, Triplex Plunger Pump, Compact Design, 3/4" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609A) – New long life low-pressure seal, oversized bearings and sight glass. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .750 in./19 mm Gauge Port: 1/8" Max. Inlet Required: Flooded Pump Dimensions: 7.6" x 7.6" x 5.1" Crankcase Oil Capacity: 11.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1506G	2.6 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	7.21 GHP	14.6 lbs.
TC1507G	3.0 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.32 GHP	14.6 lbs.
TC1508G	3.3 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.48 GHP	14.6 lbs.
TC1509G	4.0 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	10.27 GHP	14.6 lbs.



**TC1506GUI**

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TC Series 60, Triplex Plunger Pump, Compact Design, 3/4" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609A) – Exclusive premium built-in trapped pressure unloader on the left side of manifold, new long life low-pressure seal, oversized bearings and sight glass. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .750 in./19 mm Gauge Port: 1/8" Max. Inlet Required: Flooded Pump Dimensions: 10.4" x 8.0" x 7.7" Crankcase Oil Capacity: 11.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: U**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TC1506GUI	2.6 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	7.21 GHP	16.0 lbs.
TC1507GUI	3.0 GPM	2700 PSI	3400 RPM	.591 in./15 mm	.283 in./7.2 mm	8.32 GHP	16.0 lbs.
TC1508GUI	3.3 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	8.48 GHP	16.0 lbs.
TC1509GUI	4.0 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.370 in./9.4 mm	10.27 GHP	16.0 lbs.

# PRESSURE CLEANING PUMPS

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TX Series 63, Triplex Plunger Pump, Solid Shaft – Large, lightweight connecting rods, new long life low and high pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**

**Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**

**Crankcase Oil Capacity: 14 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1512S17	2.1 GPM	3000 PSI	1450 RPM	.591 in./15 mm	.472 in./12 mm	4.3 EBHP	19.0 lbs.
TX1512S17	2.6 GPM	3000 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	5.3 EBHP	19.0 lbs.
TX1810S17	2.7 GPM	2000 PSI	1450 RPM	.709 in./18 mm	.394 in./10 mm	3.7 EBHP	19.0 lbs.
TX1810S17	3.2 GPM	2000 PSI	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.2 EBHP	19.0 lbs.
TX1812S17	3.2 GPM	2000 PSI	1450 RPM	.709 in./18 mm	.472 in./12 mm	4.4 EBHP	19.0 lbs.
TX1812S17	3.8 GPM	2000 PSI	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2 EBHP	19.0 lbs.

**Max. Inlet Vacuum: Flooded**

TX1506S34	2.6 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	5.3 EBHP	19.0 lbs.
TX1508S34	3.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	6.2 EBHP	19.0 lbs.
TX1510S34	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.2 EBHP	19.0 lbs.

TX Series 63, Triplex Plunger Pump with 1.125" Hollow Shaft, Flanged for Direct Couple to NEMA 184TC Electric Motor – Large, lightweight connecting rods, new long life low-and high-pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.125 in./28.5 mm**

**Pump Dimensions: 8.6" x 7.9" x 5.7" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**

**Crankcase Oil Capacity: 14 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1510E349	2.1 GPM	3000 PSI	1750 RPM	.591 in./15 mm	.394 in./10 mm	4.3 EBHP	18.0 lbs.
TX1512E179	2.6 GPM	3000 PSI	1750 RPM	.591 in./15 mm	.472 in./12 mm	5.3 EBHP	18.0 lbs.
TX1810E179	3.2 GPM	2000 PSI	1750 RPM	.708 in./18 mm	.394 in./10 mm	4.4 EBHP	18.0 lbs.
TX1812E179	3.8 GPM	2000 PSI	1750 RPM	.708 in./18 mm	.472 in./12 mm	5.2 EBHP	18.0 lbs.

**Max. Inlet Required: Flooded**

TX1510E349	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	8.2 EBHP	18.0 lbs.
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TX Series 63, Triplex Plunger Pump, 3/4" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B) – Large, lightweight connecting rods, new long life low-and high-pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .750 in./19 mm**

**Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Required: Flooded Crankcase Oil Capacity: 14 oz.**

**Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1505G6	2.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.197 in./5.0 mm	6.2 GHP	18.0 lbs.
TX1506G6	2.6 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.0 lbs.
TX1508G6	3.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.0 lbs.

TX Series 63, Triplex Plunger Pump, 1" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B) – Large, lightweight connecting rods, new long life low-and high-pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.0 in./25.4 mm**

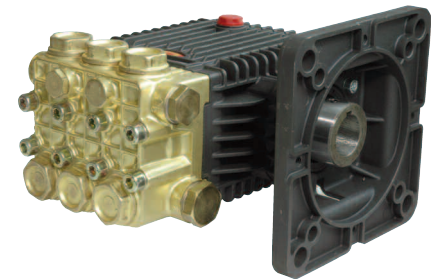
**Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Required: Flooded Crankcase Oil Capacity: 14 oz.**

**Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1506G8	2.6 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.0 lbs.
TX1508G8	3.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.0 lbs.
TX1509G8	3.5 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.355 in./9.0 mm	10.8 GHP	18.0 lbs.
TX1510G8	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	12.3 GHP	18.0 lbs.



TX1812S17



TX1512E179

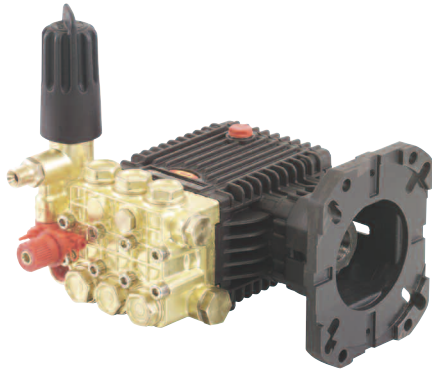


TX1506G6

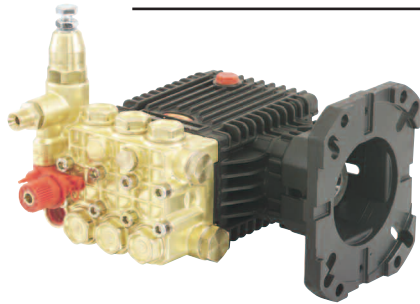


TX1506G8

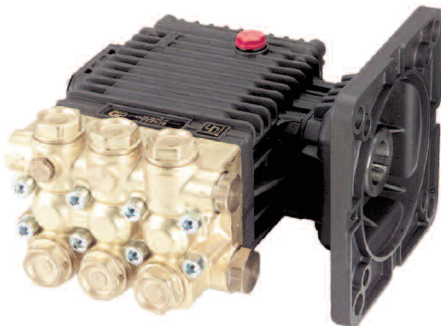
# PRESSURE CLEANING PUMPS



**TX1508G8UI**



**TX1506G8UK**



**EZ2536E**



**EZ2542S**

TX Series 63, Triplex Plunger Pump with Built-in Unloader and Downstream Injector on the left side of the manifold, 1" Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B) – Large, lightweight connecting rods, new long life low-and high-pressure seals, oversized roller bearings and dual sight glasses. Forged brass manifold with an exclusive lifetime warranty.  
**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-M Shaft Diameter: 1.0 in./25.4 mm**  
**Pump Dimensions: 8.4" x 8.3" x 4.8" Max. Inlet Required: Flooded**  
**Crankcase Oil Capacity: 14 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TX1506G8UI	2.6 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.2 lbs.
TX1508G8UI	3.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.2 lbs.
TX1509G8UI	3.5 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.355 in./9.0 mm	10.8 GHP	18.2 lbs.
TX1510G8UI	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	12.3 GHP	18.2 lbs.

**Pump with Built-in Flow Sensitive Unloader and Fixed Downstream Injector**

TX1506G8UK	2.6 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.256 in./6.5 mm	8.0 GHP	18.2 lbs.
TX1508G8UK	3.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.315 in./8.0 mm	9.2 GHP	18.2 lbs.
TX1509G8UK	3.5 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.355 in./9.0 mm	10.8 GHP	18.2 lbs.
TX1510G8UK	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	12.3 GHP	18.2 lbs.

EZ Series 44, Triplex Plunger Pump with Hollow Shaft, Flanged for Direct Couple to Electric Motors (NEMA-184TC) – Forged brass manifold with an exclusive lifetime warranty.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.125 in./28.5 mm**  
**Pump Dimensions: 8.8" x 8.8" x 6.3" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**  
**Crankcase Oil Capacity: 14.0 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ2536E	3.6 GPM	2500 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	6.2 EBHP	18.5 lbs.
EZ2542E	4.2 GPM	2500 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	7.2 EBHP	18.5 lbs.
EZ2545E	4.6 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	7.9 EBHP	18.5 lbs.
EZ2555E	5.5 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.512 in./13 mm	9.4 EBHP	18.5 lbs.
EZ4035E34	3.5 GPM	4000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	9.6 EBHP	18.5 lbs.
EZ4040E34	4.0 GPM	4000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	11.0 EBHP	18.5 lbs.

**Pump Includes Unloader and Downstream Injector**

EZ2536EUI	3.6 GPM	2500 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	6.2 EBHP	18.5 lbs.
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EZ Series 44, Triplex Plunger Pump with Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Flex coupling and bell housing available for direct drive.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 8.6" x 8.7" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**  
**Crankcase Oil Capacity: 14.0 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ2536S	3.6 GPM	2500 PSI	1750 RPM	.708 in./18 mm	.433 in./11 mm	6.2 EBHP	18.0 lbs.
EZ3040S	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	8.2 EBHP	18.0 lbs.
EZ2542S	4.2 GPM	2500 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	7.2 EBHP	18.0 lbs.
EZ2545S	4.6 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	7.9 EBHP	18.0 lbs.
EZ2555S	5.5 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.512 in./13 mm	9.4 EBHP	18.0 lbs.

**Premium Roller Bearings**

EZ3042S	4.2 GPM	3000 PSI	1750 RPM	.708 in./18 mm	.512 in./13 mm	8.6 EBHP	18.0 lbs.
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**Pump Includes Built-in Unloader and Downstream Injector**

EZ2530SUI	3.0 GPM	2500 PSI	1750 RPM	.591 in./15 mm	.512 in./13 mm	5.1 EBHP	19.0 lbs.
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# PRESSURE CLEANING PUMPS

EZ Series 44, Triplex Plunger Pump with Hollow Shaft, Flanged for Direct Couple to Gasoline Engines (SAE J609B) – Forged brass manifold with an exclusive lifetime warranty. Flanged for mounting on up to 13 horsepower engines.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.0 in./25.4 mm**

**Pump Dimensions: 8.8" x 9.7" x 6.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**

**Crankcase Oil Capacity: 14.0 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
EZ3030G34	3.0 GPM	3200 PSI	3400 RPM	.591 in./15 mm	.299 in./7.6 mm	9.9 GHP	19.1 lbs.
EZ3035G	3.5 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	10.8 GHP	19.1 lbs.
EZ3040G	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	12.3 GHP	19.1 lbs.
EZ3045G	4.6 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	14.2 GHP	19.1 lbs.

**Max. Inlet Required: Flooded**

EZ4030G34	3.0 GPM	4000 PSI	3400 RPM	.512 in./13 mm	.374 in./9.5 mm	12.3 GHP	20.0 lbs.
EZ4035G34	3.5 GPM	4000 PSI	3400 RPM	.512 in./13 mm	.433 in./11 mm	14.4 GHP	20.0 lbs.
EZ4040G	4.0 GPM	4000 PSI	3400 RPM	.512 in./13 mm	.512 in./13 mm	16.4 GHP	20.0 lbs.

**Pump with Built-in Unloader and Fixed Downstream Injector**

EZ3030G34UI	3.0 GPM	3500 PSI	3400 RPM	.591 in./15 mm	.299 in./7.6 mm	10.8 GHP	19.3 lbs.
EZ3035GUI	3.5 GPM	3500 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	12.6 GHP	19.3 lbs.
EZ3040GUI	4.0 GPM	3500 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	14.4 GHP	19.3 lbs.
EZ2545GUI	4.6 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.433 in./11 mm	11.8 GHP	19.3 lbs.

**Pump with Built-in Flow Sensitive Unloader and Fixed Downstream Injector**

EZ3035GUK	3.5 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	10.8 GHP	19.3 lbs.
EZ3040GUK	4.0 GPM	3000 PSI	3400 RPM	.591 in./15 mm	.374 in./9.5 mm	12.3 GHP	19.3 lbs.

T Series 50, Triplex Plunger Pump with Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Flex coupling and bell housing available for direct drive. Solid ceramic plungers with continuously lubricated packings.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**

**Pump Dimensions: 9.3" x 8.3" x 5.4" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**

**Crankcase Oil Capacity: 15.2 oz. Use GP Series 100 Oil, (see page 57) Product Group: W**

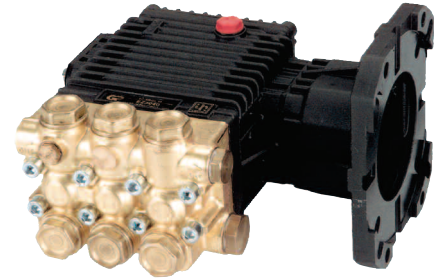
	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T991	3.5 GPM	1500 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	3.6 EBHP	19.0 lbs.
T9951	3.5 GPM	1500 PSI	1750 RPM	.787 in./20 mm	.335 in./8.5 mm	3.6 EBHP	19.0 lbs.
TT9351	3.5 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.335 in./8.5 mm	6.0 EBHP	18.7 lbs.
T991	4.0 GPM	1100 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	3.0 EBHP	19.0 lbs.
T9971*	4.0 GPM	2000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.5 EBHP	19.0 lbs.
*The T9971 uses GP Series 8090 Oil.							
TT9441	4.4 GPM	2500 PSI	3400 RPM	.591 in./15 mm	.394 in./10 mm	7.5 EBHP	18.7 lbs.

**T991 (100648) and T9951 (100656) with Teflon Packings**

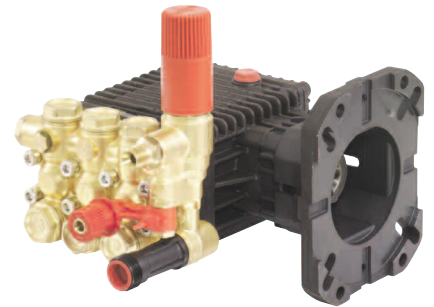
100648	3.5 GPM	1500 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	3.6 EBHP	19.0 lbs.
100656	3.5 GPM	1500 PSI	1750 RPM	.787 in./20 mm	.335 in./8.5 mm	3.6 EBHP	19.0 lbs.

**Pump with Gearbox**

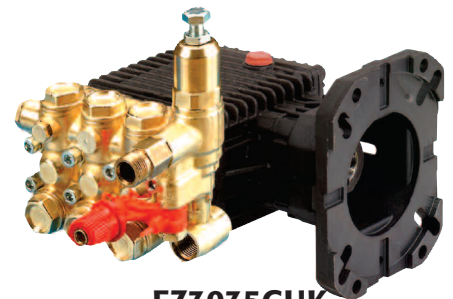
T991GR	3.5 GPM	1500 PSI	3400 RPM	.787 in./20 mm	.394 in./10 mm	5.4 GHP	24.0 lbs.
T9971GR	3.5 GPM	2000 PSI	3400 RPM	.787 in./20 mm	.394 in./10 mm	7.2 GHP	24.0 lbs.



**EZ3040G**



**EZ3040GUI**



**EZ3035GUK**



**T991**

# PRESSURE CLEANING PUMPS



**TS1331**

T Series 47, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. Heavy-duty tapered roller bearings and oversized connecting rods for maximum life.  
**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 12.2" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 33.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TS1331	3.5 GPM	2100 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	5.0 EBHP	32.0 lbs.
TS1011	4.0 GPM	2000 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	5.5 EBHP	32.0 lbs.
TS1331	4.0 GPM	2000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.5 EBHP	32.0 lbs.
T1011	4.5 GPM	2000 PSI	1125 RPM	.787 in./20 mm	.630 in./16 mm	6.2 EBHP	32.0 lbs.
TS1011*	4.75 GPM	1500 PSI	1750 RPM	.787 in./20 mm	.472 in./12 mm	4.9 EBHP	32.0 lbs.
TS921	4.75 GPM	1800 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	5.9 EBHP	32.0 lbs.
T921	5.0 GPM	1700 PSI	1050 RPM	.866 in./22 mm	.630 in./16 mm	5.8 EBHP	32.0 lbs.
T1011	5.6 GPM	1500 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	5.8 EBHP	32.0 lbs.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 12.6" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TS1711*	3.5 GPM	2700 PSI	1450 RPM	.787 in./20 mm	.394 in./10 mm	6.5 EBHP	32.0 lbs.
TS1511*	4.0 GPM	3500 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	9.6 EBHP	32.0 lbs.
TS1021	4.5 GPM	3000 PSI	1125 RPM	.787 in./20 mm	.630 in./16 mm	9.2 EBHP	32.0 lbs.
TS1321*	4.75 GPM	2100 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	6.8 EBHP	32.0 lbs.
T1621	5.0 GPM	2500 PSI	1050 RPM	.866 in./22 mm	.630 in./16 mm	8.6 EBHP	32.0 lbs.
T1321	5.5 GPM	2100 PSI	1150 RPM	.866 in./22 mm	.630 in./16 mm	7.9 EBHP	32.0 lbs.
TS1021	5.6 GPM	1700 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	6.5 EBHP	32.0 lbs.
TS1811	4.5 GPM	3500 PSI	1450 RPM	.787 in./20 mm	.551 in./14 mm	10.8 EBHP	32.0 lbs.
TS1811	4.0 GPM	3500 PSI	1290 RPM	.787 in./20 mm	.551 in./14 mm	10.0 EBHP	32.0 lbs.

T Series 47, Triplex Plunger Pump, Solid Shaft – Nickel-plated forged brass manifold with an exclusive lifetime warranty. Heavy-duty tapered roller bearings and oversized connecting rods for maximum life.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 12.6" x 9.2" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T9211	4.0 GPM	3000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	8.2 EBHP	32.0 lbs.
TS2011	4.0 GPM	3500 PSI	1450 RPM	.787 in./20 mm	.472 in./12 mm	9.6 EBHP	32.0 lbs.
TS2021	4.5 GPM	3500 PSI	1125 RPM	.787 in./20 mm	.630 in./16 mm	10.8 EBHP	32.0 lbs.
TS1621*	4.75 GPM	2500 PSI	1450 RPM	.866 in./22 mm	.472 in./12 mm	8.1 EBHP	32.0 lbs.
TS2011*	4.75 GPM	2300 PSI	1750 RPM	.787 in./20 mm	.394 in./12 mm	7.5 EBHP	32.0 lbs.
TS2021*	5.6 GPM	3500 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	13.4 EBHP	32.0 lbs.
T9281	4.0 GPM	4000 PSI	1750 RPM	.630 in./16 mm	.630 in./16 mm	11.0 EBHP	33.0 lbs.

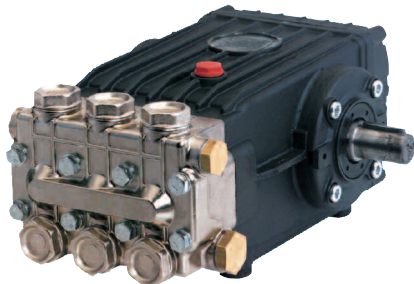
New High Flow 47 Series, Triplex Plunger Pump, Solid Shaft - Forged brass manifold with larger valves to accommodate increased flow. Heavy duty tapered roller bearings and oversized connecting rods for maximum life.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/4" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 13.1" x 10.2" x 7.1" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

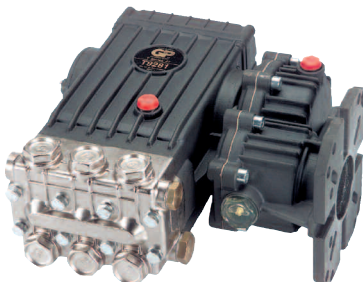
	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TS2219	7.7 GPM	2320 PSI	1450 RPM	.866 in./22 mm	.748 in./19 mm	12.5 EBHP	360 lbs.



**TS1811**



**T9281**

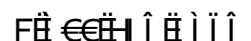


**T9281GR**



**TS2219**

\*Pumps are available with 1" Gearbox for mounting to J609B gas engines.





# PRESSURE CLEANING PUMPS

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66 Series, Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Innovative seal design to extend seal life. Plunger design improves thermal shock resistance. New valve cap design improves hydrostatic performance.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/4" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 13.27" x 9.6" x 6.23" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TSF1819	6.3 GPM	4350 PSI	1750 RPM	.709 in./18 mm	.748 in./19 mm	18.8 EBHP	40.7 lbs.
TSF2019	6.3 GPM	3600 PSI	1450 RPM	.787 in./20 mm	.748 in./19 mm	15.5 EBHP	40.7 lbs.
TSF2021	7.0 GPM	3600 PSI	1450 RPM	.787 in./20 mm	.826 in./21 mm	17.3 EBHP	40.7 lbs.
TSF2019	7.6 GPM	3600 PSI	1750 RPM	.787 in./20 mm	.748 in./19 mm	18.7 EBHP	40.7 lbs.
TSF2219	7.7 GPM	3000 PSI	1450 RPM	.866 in./22 mm	.748 in./19 mm	15.8 EBHP	40.7 lbs.
TSF2021	8.5 GPM	3600 PSI	1750 RPM	.787 in./20 mm	.826 in./21 mm	21.0 EBHP	40.7 lbs.
TSF2221	8.5 GPM	3000 PSI	1450 RPM	.866 in./22 mm	.826 in./21 mm	17.5 EBHP	40.7 lbs.
TSF2219	9.3 GPM	3000 PSI	1750 RPM	.866 in./22 mm	.748 in./19 mm	19.1 EBHP	40.7 lbs.
TSF2421	10.0 GPM	2500 PSI	1450 RPM	.945 in./24 mm	.826 in./21 mm	17.1 EBHP	40.7 lbs.
TSF2221	10.2 GPM	3000 PSI	1750 RPM	.866 in./22 mm	.826 in./21 mm	21.0 EBHP	40.7 lbs.
TSF2819	12.1 GPM	2200 PSI	1450 RPM	1.102 in./28 mm	.748 in./19 mm	18.2 EBHP	40.7 lbs.
TSF2421	12.0 GPM	2500 PSI	1750 RPM	.945 in./24 mm	.826 in./21 mm	20.5 EBHP	40.7 lbs.



**TSF1819**

66 Series, Triplex Plunger Pump, High Pressure – Forged brass manifold with an exclusive lifetime warranty. Innovative seal design to extend seal life. Plunger design improves thermal shock resistance. New valve cap design improves hydrostatic performance.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**  
**Pump Dimensions: 13.84" x 9.8" x 7.7" Min. Inlet Pressure: 30 PSI**  
**Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TSP1619	3.6 GPM	7250 PSI	1450 RPM	.629 in./16 mm	.748 in./19 mm	17.8 EBHP	51.8 lbs.
TSP1619	4.3 GPM	5800 PSI	1750 RPM	.629 in./16 mm	.748 in./19 mm	17.8 EBHP	51.8 lbs.
TSP1621	4.3 GPM	6525 PSI	1450 RPM	.630 in./16 mm	.826 in./21 mm	17.1 EBHP	51.8 lbs.
TSP1819	5.0 GPM	5100 PSI	1450 RPM	.709 in./18 mm	.748 in./19 mm	17.1 EBHP	51.8 lbs.
TSP1821	5.5 GPM	5100 PSI	1450 RPM	.709 in./18 mm	.826 in./21 mm	18.8 EBHP	51.8 lbs.



**TSP1619**

T Series 69, Triplex Plunger Pump, Solid Shaft – The industry's choice for high-flow applications. Ball bearings and oversized connecting rods for maximum life.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/4" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 12.9" x 11.9" x 7.3" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 50.7 oz. Use GP Series 8090 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
TS1531	7.92 GPM	2175 PSI	1450 RPM	.787 in./20 mm	.866 in./22 mm	11.8 EBHP	46.0 lbs.
TS1041	8.0 GPM	1600 PSI	1450 RPM	.787 in./20 mm	.866 in./22 mm	8.8 EBHP	46.0 lbs.
T41	12.0 GPM	900 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	7.4 EBHP	37.0 lbs.



**T41**

T Series 76, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. The industry's choice for high-flow applications, oversized connecting rods for maximum life.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1" NPT-F**  
**Discharge Port Thread: 1/2" NPT-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 15.6" x 14.0" x 9.5" Max. Inlet Vacuum: 7 ft. water (6.2 in. Hg)**  
**Crankcase Oil Capacity: 91.0 oz. Use GP Series 8090 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T4251	6.6 GPM	5800 PSI	1000 RPM	.787 in./20 mm	1.102 in./28 mm	26.2 EBHP	160 lbs.
T1551	14.0 GPM	2175 PSI	1000 RPM	1.181 in./30 mm	1.102 in./28 mm	20.9 EBHP	93.0 lbs.



**T4251**

# PRESSURE CLEANING PUMPS



**T61**

T Series 76, Triplex Plunger Pump, Solid Shaft – Forged brass manifold with an exclusive lifetime warranty. The industry's choice for high-flow applications, oversized connecting rods for maximum life.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1" - 11 BSP-F**  
**Discharge Port Thread: 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 15.6" x 14.0" x 9.5" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 91.0 oz. Use GP Series 8090 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T61	17.0 GPM	1000 PSI	650 RPM	1.772 in./45 mm	.945 in./24 mm	11.6 EBHP	92.0 lbs.
T81	21.0 GPM	1000 PSI	650 RPM	1.772 in./45 mm	1.102 in./28 mm	14.4 EBHP	92.0 lbs.

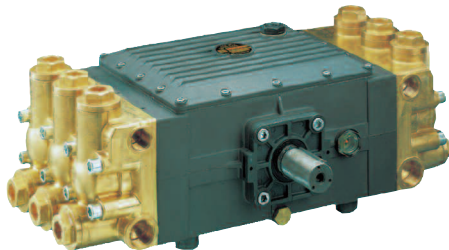


**T1631**

T Series 48, Sixplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Dual manifolds utilizing a common crankcase for efficient performance in high-flow applications.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: Dual 3/4" - 14 BSP-F**  
**Discharge Port Thread: Dual 3/8" - 19 BSP-F Shaft Diameter: 1.26 in./32 mm**  
**Pump Dimensions: 16.1" x 11.2" x 7.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 54.0 oz. Use GP Series 100 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T2031	9.0 GPM	3000 PSI	1140 RPM	.787 in./20 mm	.630 in./16 mm	18.5 EBHP	61.0 lbs.
T1631	10.0 GPM	2500 PSI	1080 RPM	.866 in./22 mm	.630 in./16 mm	17.1 EBHP	61.0 lbs.
T2031	11.0 GPM	2000 PSI	1450 RPM	.787 in./20 mm	.630 in./16 mm	15.1 EBHP	61.0 lbs.



**T121**

T Series 77, Sixplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Dual manifolds utilizing a common crankcase for efficient performance in high flow applications.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: Dual 1" - 11 BSP-F**  
**Discharge Port Thread: Dual 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 22.1" x 14.0" x 9.7" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 71.0 oz. Use GP Series 8090 Oil, (see page 57) Product Group: Y**

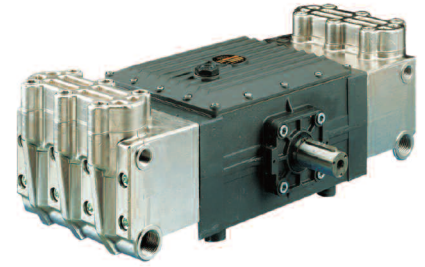
	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T1591	28.0 GPM	2175 PSI	1000 RPM	1.181 in./30 mm	1.102 in./28 mm	41.7 EBHP	156 lbs.
T121	35.0 GPM	1000 PSI	650 RPM	1.772 in./45 mm	.945 in./24 mm	24.0 EBHP	156 lbs.
T151	43.0 GPM	1000 PSI	650 RPM	1.772 in./45 mm	1.102 in./28 mm	29.5 EBHP	156 lbs.

# PRESSURE CLEANING PUMPS

T Series 77, Sixplex Plunger Pump – Nickel-plated forged brass manifold with an exclusive lifetime warranty. Dual manifold utilizing a common crankcase for efficient performance. Unique “in-line” valve system for easy access and durability.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: Dual 1" - 11 BSP-F**  
**Discharge Port Thread: Dual 1/2" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 25.2" x 14.0" x 10.0" Max. Inlet Vacuum: 7 ft. water (6.2 in. Hg)**  
**Crankcase Oil Capacity: 71.0 oz. Use GP Series 8090 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
T3551	13.0 GPM	4350 PSI	1000 RPM	.787 in./20 mm	1.102 in./20 mm	38.7 EBHP	174 lbs.



**T3551**

AT Series 75 Duplex Plunger Pump, Splined Shaft – Ideal for drain cleaning and jetting applications. Aluminum manifold and solid ceramic plungers with continuously lubricated packings. (All splined shaft pumps require additional components to attach to PTO Systems).

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/4" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.375 in./34.9 mm ASAE**  
**Pump Dimensions: 12" x 9" x 7.3" Use GP Series 100 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	OIL CAPACITY	HP	SHP WGHT
AT0033	7.93 GPM	435 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	22 oz.	2.4 EBHP	28.0 lbs.



**AT0055**

**Shaft Diameter: 1.375 in./34.9 mm ASAE splined Pump Dimensions: 13" x 14" x 7.5"**

	GPM	PSI	RPM	BORE	STROKE	OIL CAPACITY	HP	SHP WGHT
AT0055	13.22 GPM	725 PSI	650 RPM	1.417 in./36 mm	.945 in./24 mm	51 oz.	6.6 EBHP	36.0 lbs.

Aluminum or a forged brass manifold. Heavy-duty tapered roller bearings and oversized connecting rods for maximum life.

**Shaft Diameter: 1.375 in./34.9 mm ASAE splined Pump Dimensions: 15.6" x 14" x 9.5"**

	GPM	PSI	RPM	BORE	STROKE	OIL CAPACITY	HP	SHP WGHT
AT0088	22.48 GPM	870 PSI	650 RPM	1.771 in./45 mm	1.102 in./28 mm	61 oz.	13.4 EBHP	85.0 lbs.
AT0088B	22.48 GPM	870 PSI	650 RPM	1.771 in./45 mm	1.102 in./28 mm	61 oz.	13.4 EBHP	92.0 lbs.

AT Series 77 Sixplex Plunger Pump, Splined Shaft – Aluminum or a forged brass manifold. Dual manifolds utilizing a common crankcase for efficient performance and bronze connecting rods for maximum life.

**Inlet Port Thread: 1" - 11 BSP-F Discharge Port Thread: 3/4" - 14 BSP-F**  
**Shaft Diameter: 1.375 in./34.9 mm ASAE splined Pump Dimensions: 21" x 17" x 9.5" Use GP Series 100 Oil, (see page 57)**

	GPM	PSI	RPM	BORE	STROKE	OIL CAPACITY	HP	SHP WGHT
AT0111	29.1 GPM	725 PSI	550 RPM	1.771 in./45 mm	.945 in./24 mm	71 oz.	14.5 EBHP	88.0 lbs.
AT0177	45.0 GPM	870 PSI	650 RPM	1.771 in./45 mm	1.102 in./28 mm	71 oz.	26.8 EBHP	88.0 lbs.
AT0177B	45.0 GPM	870 PSI	650 RPM	1.771 in./45 mm	1.102 in./28 mm	71 oz.	26.8 EBHP	156 lbs.

# EMPEROR PUMPS WITH HT TECHNOLOGY



**Emperor**  
Pumps That Rule Any Environment

## Automotive

- Municipal vehicle maintenance
- Bug and tar removal
- General exterior cleaning

## Self service wash

- Single or multi bay applications
- Spot free rinse application
- Chemical application
- Pre soak/Tire motor cleaner
- Foam brush
- Reclaim water
- Weep systems

## Automatic wash

- Roll over automatic
- Spot free rinse application
- Pre soak systems

## Weep systems

- Foam application

## Tunnel wash

- Prep station
- Brush wetting
- Detergent application
- Spot free rinse application
- Bay wash down

## Mobile vehicle wash

- Truck mounted wash units
- Spot free rinse application

## Household cleaning

- Carpet cleaning

## Household exterior cleaning

- Mildew removal
- Storm cleanup
- Pool decks
- Gutter cleaning

## Contract cleaning

- Building exterior cleaning
- Sidewalk cleaning
- Driveway cleaning
- Deck cleaning
- Restaurant kitchen cleaning
- Hood and duct cleaning
- Mobile vehicle wash
- Ice abatement
- Wet sandblasting
- General cleaning

## Emperor Pumps

Emperor HTC, 60 Series, Triplex plunger pump. Ideal for use in carpet cleaning and other high pressure cleaning applications. This pump offers a compact, economical design.

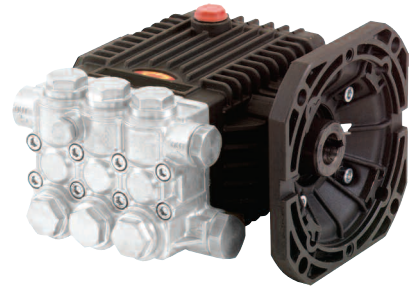
**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .626 in./16 mm**

**Pump Dimensions: 7.8" x 7.3" x 5.5" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg)**

**Crankcase Oil Capacity: 11.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTC1505E345	2.1	2200	3400	.591 in/15 mm	.197 in/5 mm	3.5	16 lbs.
HTC1509E175	2.1	2200	1750	.591 in/15 mm	.370 in/9.4 mm	3.5	16 lbs.



**HTC1509E175**

Emperor HTS, 47HT Series, Triplex plunger pump features exclusive HT technology. Specifically designed to handle the rigorous duty cycles, high temperatures and chemicals associated with self-service car wash applications. Also ideal for use in carpet cleaning and other high pressure cleaning applications.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**

**Pump Dimensions: 12.2" x 9.2" x 6.9" 12.4" x 10" x 6.9" (with rails) Max. Inlet Vacuum: 9 ft. water**

**(7.9 in. Hg) Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTS2210S	2.6/4.0	2300	950/1450	.866 in/22 mm	.394 in/10 mm	4.1/6.3	32 lbs.
HTS2212S	3.2/4.75	2300	950/1450	.866 in/22 mm	.472 in/12 mm	5/7.5	32 lbs.
HTS2215S	4.0/5.0	2300	950/1200	.866 in/22 mm	.591 in/15 mm	4.1/7.8	32 lbs.
HTS2016S	5.6	3000	1450	.787 in/20 mm	.630 in/16 mm	10.2	32 lbs.



**HTS2210S**

Emperor HTX, 63HT Series, Triplex plunger pump features exclusive HT technology. Specifically designed to handle the rigorous duty cycles, high temperatures and chemicals associated with self-service car wash applications. Also ideal for use in carpet cleaning and other high pressure cleaning applications. This pump offers a compact and economical design.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1/2" - 14 BSP-F**

**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm**

**Pump Dimensions: 8.4" x 8.3" x 4.8" 8.4" x 8.3" x 5.6" (with rails) Max. Inlet Vacuum: 3 ft. water**

**(2.6 in. Hg) Crankcase Oil Capacity: 14 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

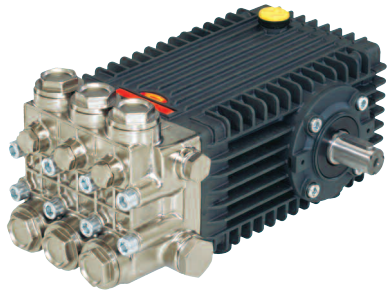
	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTX1810S	2.7/3.1	2000	1450/1750	.709 in./18 mm	.394 in./10 mm	3.5/4.2	18 lbs.
HTX1812S	3.2/3.8	2000	1450/1750	.709 in./18 mm	.472 in./12 mm	4.3/5.2	18 lbs.
HTX1813S	3.5	2500	1450	.709 in./18 mm	.512 in./13 mm	6	18 lbs.



**HTX1810S**

# EMPEROR PUMPS

## Emperor Pumps



**HTF2018S**

Emperor HTF, 66HT Series, Triplex plunger pump features exclusive HT technology. Designed for use in prep units, conveyor and multiple gun applications. Excellent for carpet cleaning and for use in industrial plant systems where hot water is required.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 3/4" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm Pump Dimensions: 13.27" x 9.6" x 6.23" 13.4" x 9.8" x 7.5" (with rails) Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg) Crankcase Oil Capacity: 31 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTF2018S	4.0/5.0/7.5	3600	950/1200/1750	.787 in/20 mm	.748 in/18 mm	10/12/18.5	41 lbs.
HTF2221S	8.5/10.2	3000	1450/1750	.866 in/22 mm	.826 in/21 mm	17.5/21	41 lbs.
HTF2421S	10.0/12.0	3000/2500	1450/1750	.945 in/24 mm	.826 in/21 mm	20.5	41 lbs.



**HTW3624S**

Emperor HTW, 69HT Series, Triplex plunger pump features exclusive HT technology. Designed for touchless carwash systems, multiple gun systems and industrial plant systems where hot water is required.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1" - 11 BSP-F Discharge Port Thread: 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm Pump Dimensions: 13" x 11.9" x 7.3" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg) Crankcase Oil Capacity: 50.7 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTW3624S*	18.0	1200	1000	1.417 in/36 mm	.946 in/24 mm	19.5	57 lbs.



See page 48 for further details

**HTCK3623S**

Emperor HTCK3623S, 70 Series, Triplex plunger pump features exclusive HT technology. Designed specifically for use in rollover car wash systems and other industrial plant systems where hot water is required.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1" NPT-F Discharge Port Thread: 1/2" NPT-F Shaft Diameter: 1.181 in./30 mm Pump Dimensions: 15.3" x 13.4" x 7.7" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Crankcase Oil Capacity: 64.2 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK3623S*	21.0/25.0	1500/1300	1150/1350	1.4 in/36 mm	.9/23 mm	22.0	79.6 lbs.



See page 48 for further details

**HTCK4050S**

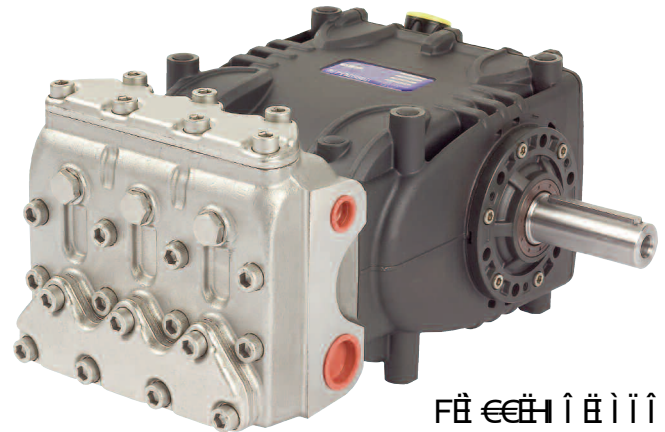
Emperor HTCK4050S, 71 Series, Triplex plunger pump features exclusive HT technology. Designed as a direct replacement for Cat's 3535 with the distinct advantage of featuring General Pump's patented HT technology. Ideal for use in rollover car washes and other industrial plant systems where hot water is required.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1-1/2" NPT-F Discharge Port Thread: 1" NPT-F Shaft Diameter: 1.575 in./40 mm Pump Dimensions: 20.7" x 14.5" x 9.9" Max. Inlet Vacuum: 3 ft. water (2.6 in. Hg) Crankcase Oil Capacity: 124.4 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTCK4050S*	36.0	1500	800	1.6 in/40 mm	1.9/50 mm	38.0	157 lbs.

## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 5 flows
- Patent-pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- SAE-B hydraulic drive bell housing and flexible couplers available



## MATERIALS

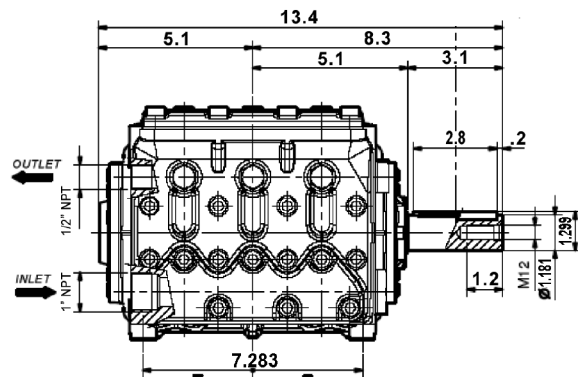
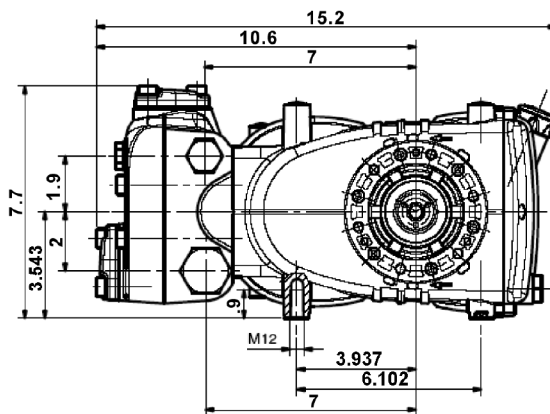
- High resistance light alloy die cast aluminum crankcase
- 420 Stainless steel manifold, nickel treated
- Taper roller bearings
- Special antifriction, forged, light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrided
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves
- Pumps are also available with 316 SS packing components. These models use prefix "KEN"

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 1" NPT-F
- Discharge Port Thread: ..... 1/2" NPT-F
- Shaft Diameter: ..... 1.181"/30 mm
- Stroke: ..... 0.9055"/23 mm
- Pump Dimensions: ..... 15.2" x 13.4" x 7.7"
- Crankcase Oil Capacity: ..... 67.63 oz. (2 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 88 lbs./40 kg

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.

### Product Group: V



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	HP
KE20A	8.3 GPM/31 LPM	4350 PSI/300 BAR	1450 RPM	.787 in./20 mm	25.0
KE22A	10.0 GPM/38 LPM	3625 PSI/250 BAR	1450 RPM	.866 in./22 mm	25.0
KE24A	11.9 GPM/45 LPM	3045 PSI/210 BAR	1450 RPM	.944 in./24 mm	25.0
KE28A	16.3 GPM/61 LPM	2175 PSI/150 BAR	1450 RPM	1.102 in./28 mm	24.0
KE30A	18.5 GPM/70 LPM	1885 PSI/130 BAR	1450 RPM	1.181 in./30 mm	24.0

Substitute prefix "KEN" for KE in above model numbers for models with 316 SS packing components. Above pumps also available with crankshaft on left side. To order, add an "L" to the end of the model number.



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### FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 4 flows
- Patent-pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- SAE-C hydraulic drive bell housing and flexible couplers available
- Available with external gear box (direct drive only), see page 40

### MATERIALS

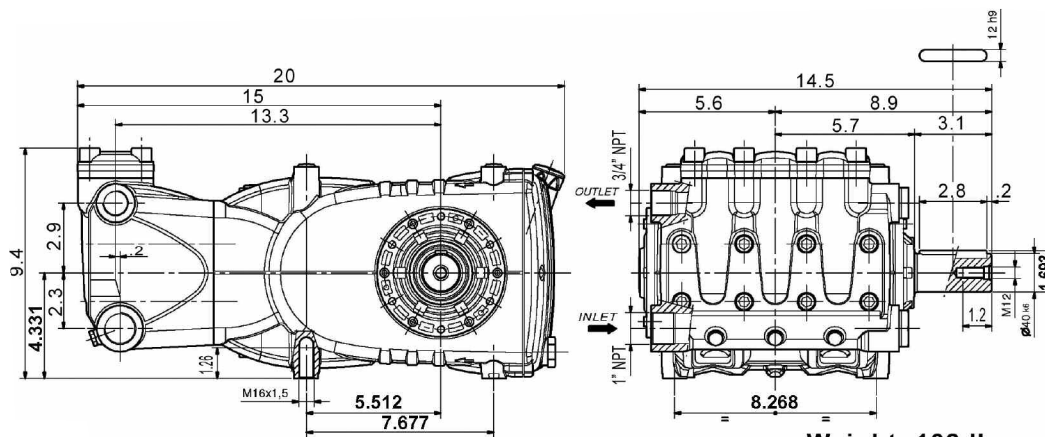
- High resistance light alloy die cast crankcase
- 420 stainless steel manifold, nickel treated
- Taper roller bearings
- Special antifriction, forged, light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrited
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

### COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 1" NPT-F
- Discharge Port Thread: ..... 3/4" NPT-F
- Shaft Diameter: ..... 1.575"/40 mm
- Stroke: ..... 1.969"/50 mm
- Pump Dimensions: ..... 20" x 14.5" x 9.4"
- Crankcase Oil Capacity: ..... 128.5 oz. (3.8 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 132 lbs./60 kg

### Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Weight: 132 lb.

Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	HP
HF18A	8.06 GPM/30 LPM	8700 PSI/600 BAR	800 RPM	.708 in./18 mm	48.0
HF18A	10.08 GPM/38 LPM	7250 PSI/500 BAR	1000 RPM	.708 in./18 mm	50.0
HF20A	12.4 GPM/47 LPM	5800 PSI/400 BAR	1000 RPM	.787 in./20 mm	48.0
HF22A	12.05 GPM/46 LPM	5800 PSI/400 BAR	800 RPM	.866 in./22 mm	48.0
HF22A	15.0 GPM/57 LPM	5075 PSI/350 BAR	1000 RPM	.866 in./22 mm	48.0
HF25A	19.6 GPM/74 LPM	4050 PSI/280 BAR	1000 RPM	.984 in./25 mm	53.0

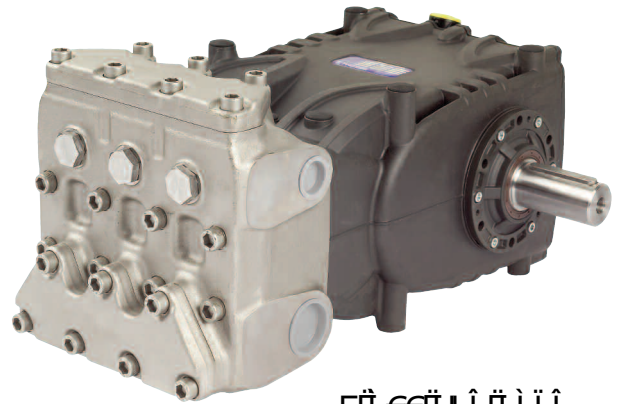
Above pumps also available with crankshaft on left side. To order, add an "L" to the end of the model number.

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.



## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 4 flows
- Patent-pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- SAE-C hydraulic drive bell housing flexible couplers available
- Available with external gear box (direct drive only), see page 40



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## MATERIALS

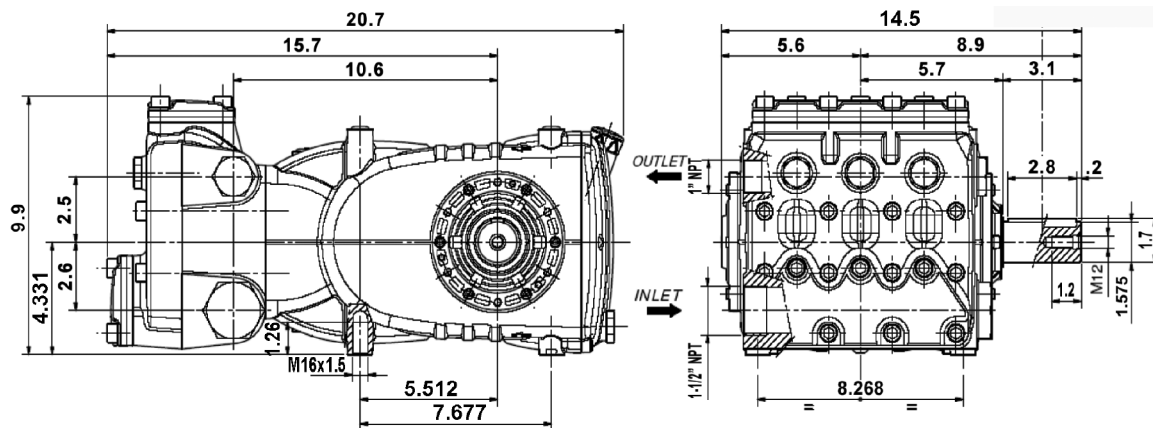
- High resistance light alloy die cast aluminum crankcase
- 420 stainless steel manifold, nickel treated
- Taper roller bearings
- Special antifriction, forged, light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrited
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves
- Pumps are also available with 316 SS packing components. These models use prefix "KFN"

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 1-1/2" NPT-F
- Discharge Port Thread: ..... 1" NPT-F
- Shaft Diameter: ..... 1.575"/40 mm
- Stroke: ..... 1.969"/50 mm
- Pump Dimensions: ..... 20.7" x 14.5" x 9.9"
- Crankcase Oil Capacity: ..... 128.5 oz. (3.8 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 150 lbs./68 kg

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.

## Product Group: V



Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	HP
KF28A	24.5 GPM/93 LPM	3045 PSI/210 BAR	1000 RPM	1.102 in./28 mm	50.0
KF30A	28 GPM/106 LPM	2890 PSI/200 BAR	1000 RPM	1.181 in./30 mm	55.0
KF36A	32.2 GPM/122 LPM	2300 PSI/160 BAR	800 RPM	1.417 in./36 mm	50.0
KF36A	36.2 GPM/137 LPM	2050 PSI/140 BAR	900 RPM	1.417 in./36 mm	50.0
KF36A	40 GPM/153 LPM	1900 PSI/130 BAR	1000 RPM	1.417 in./36 mm	52.0
KF40A	45 GPM/170 LPM	1600 PSI/110 BAR	900 RPM	1.574 in./40 mm	49.0

Substitute prefix "KFN" for KF in above model numbers for models with 316 SS packing components.  
Above pumps also available with crankshaft on left side. To order, add an "L" to the end of the model number.

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

**NEW!**



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### FEATURES

- High pressure “MUD” pump
- Specifically designed to pump mixtures of water, bentonite and/or polymers typical of mining and directional drilling applications
- Patent-pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- 17-4 stainless steel valves are guided to promote efficient delivery of fluids. Seating areas are treated with abrasion resistant material to extend life of wearing surfaces.
- Energized packings/seals are produced from high density polyethylene
- Splash lubrication
- Extended crosshead features open design and double oil seals to minimize unwanted collection of drilling fluids.
- Available in hydraulic version

### COMMON SPECIFICATIONS

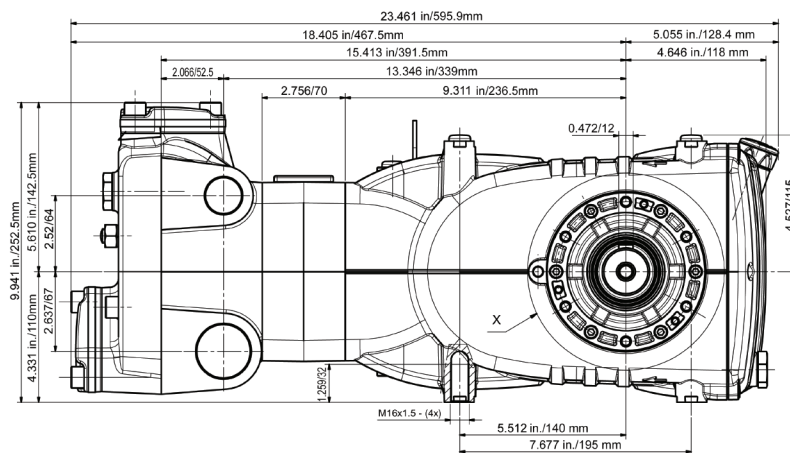
- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 1-1/4" NPT-F
- Discharge Port Thread: ..... 1" NPT-F
- Shaft Diameter: ..... 1.6"/40 mm
- Stroke: ..... 1.9"/50 mm
- Pump Dimensions: ..... 23.6" x 10" x 9.9"
- Crankcase Oil Capacity: ..... 124.4 oz. (3.68 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 160 lbs./73 kg

### MATERIALS

- High resistance light alloy crankcase
- Stainless steel manifold, nickel treated
- Tapered roller rim bearings
- Special antifriction, light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrited
- Cast iron piston guide, nickel treated
- Solid ceramic plungers, with ceramic coated Stainless Steel extension.
- Valve disks and seats 17/4 Stainless Steel.

**Product Group: V**

*\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.*



**Note: All models come standard with crankshaft on right side (when facing manifold).**

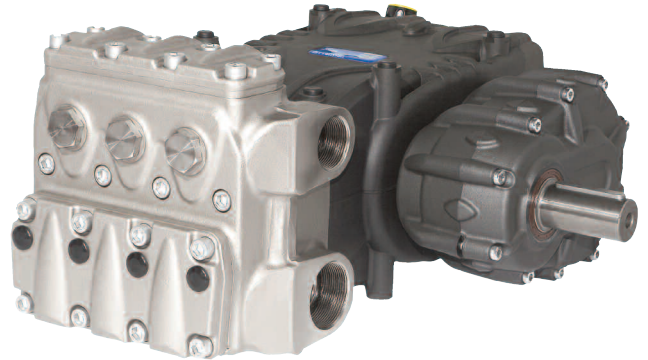
MODEL	GPM/LPM	PSI/BAR	RPM	BORE	STROKE	HP
KFM40A	30.0 GPM/114 LPM	1500 PSI/103 BAR	600 RPM	.1571 in./40 mm	1.9 in./50 mm	30.0

*Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.*

## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 4 flows
- Patent-pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Available with external gear box in three ratios and positionable on left or right (direct drive only)
- SAE-C hydraulic drive bell housing and flexible couplers available

Available without gear box for belt driven and hydraulic drive applications



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## MATERIALS

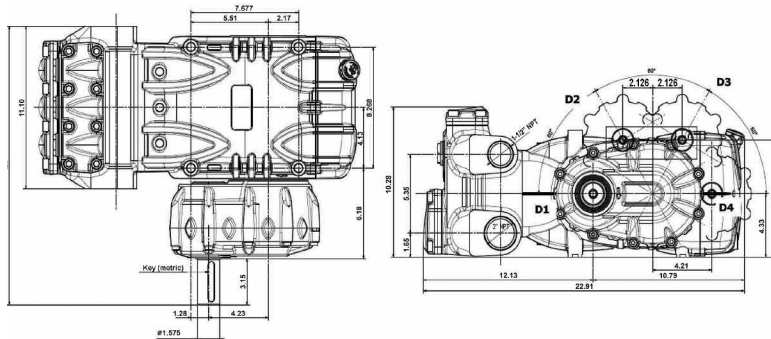
- High resistance die cast aluminum light alloy crankcase
- Spheroidal cast iron manifold, nickel treated
- Taper roller bearings
- Special antifriction light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrited
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 2" NPT-F
- Discharge Port Thread: ..... 1-1/2" NPT-F
- Shaft Diameter: ..... 1.575"/40 mm
- Stroke: ..... 1.969"/50 mm
- Pump Dimensions: ..... 23" x 19" x 11"
- Crankcase Oil Capacity, with gearbox: 162.3 oz. (4.8 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 212 lbs./96 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
KS28SA	24.0 GPM/91 LPM	4000 PSI/276 BAR	1000 RPM	1.102 in./28 mm	67.0
KS28A	29.0 GPM/110 LPM	3625 PSI/250 BAR	1200 RPM	1.102 in./28 mm	72.0
KS32A	38.0 GPM/145 LPM	3000 PSI/200 BAR	1200 RPM	1.26 in./32 mm	78.0
KS36A	48.0 GPM/183 LPM	2320 PSI/160 BAR	1200 RPM	1.417 in./36 mm	76.0
KS40A	60.0 GPM/226 LPM	2000 PSI/138 BAR	1200 RPM	1.574 in./40 mm	82.0

## How to order/Examples of Part Numbers:

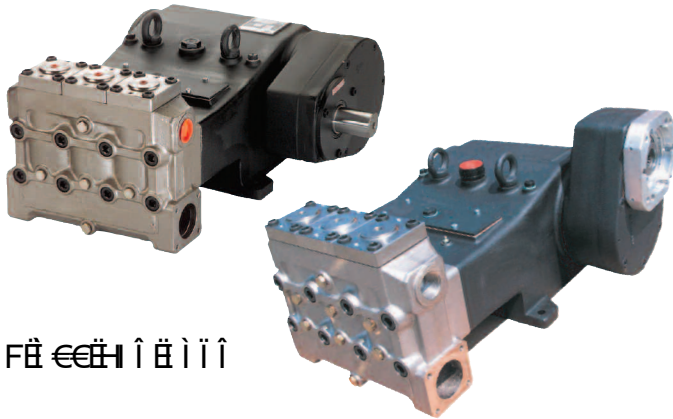
When ordering with gear box:



So the Part Number in the Above Example: **KS28A15R1**

(Model is KS28A, with an RPM of 1500, gear box positioned on right side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.



### FEATURES

- Triplex Plunger Pump, available in 5 flows
- Double pressure packings
- Vertically fitted suction/delivery valves
- Splash lubrication
- SAE-C, 4-bolt hydraulic drive available
- Available with or without external gear box in three ratios and positionable on left or right
- Gear ratios: 1500 RPM=2.037:1, 1800 RPM=2.417:1, 2200 RPM=3.04:1

### MATERIALS

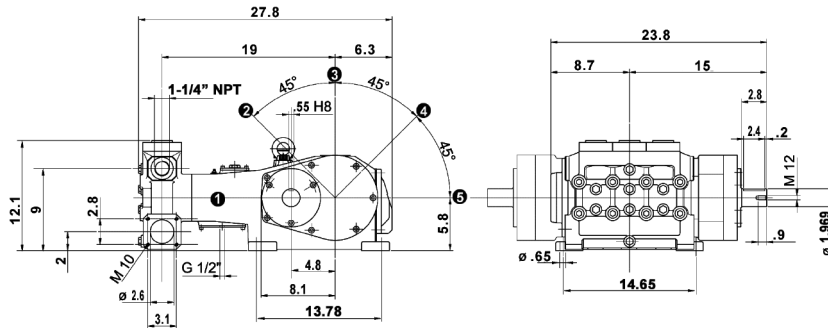
- Pump body in cast iron
- Manifold made of spheroidal cast iron, nickel treated
- Self adjusting spherical roller bearings on crankshaft
- Forged steel connecting rods with antifriction bearings
- Crankshaft made of nitrided, hardened and tempered alloy steel
- Cast iron piston guide, nickel treated
- Ceramic coated plungers
- Stainless steel valves

### COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 2-1/2" NPT-F
- Discharge Port Thread: ..... 1-1/4" NPT-F
- Shaft Diameter: ..... 2.758"/70 mm
- Stroke: ..... 2.362"/60 mm
- Pump Dimensions: ..... 27.8" x 23.8" x 11.9"
- Crankcase Oil Capacity (w/Gear box): . 338 oz. (10 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 570 lbs./no gear - 620 lbs. w/gear

### Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	SHAFT DIA.	EBHP
MSS36	35.9 GPM/136 LPM	4350 PSI/300 BAR	750 RPM	1.417 in./36 mm	2.758 in./70 mm	107.0
MSS36	35.4 GPM/134 LPM	4350 PSI/300 BAR	1500/1800	1.417 in./36 mm	1.969 in./50 mm	105.5
MSS40	44.4 GPM/168 LPM	3500 PSI/241 BAR	750 RPM	1.575 in./40 mm	2.758 in./70 mm	106.4
MSS40	43.9 GPM/166 LPM	3500 PSI/241 BAR	1500/1800	1.575 in./40 mm	1.969 in./50 mm	105.2
MSS45	56.3 GPM/213 LPM	2750 PSI/190 BAR	750 RPM	1.772 in./45 mm	2.758 in./70 mm	106.0
MSS45	55.5 GPM/210 LPM	2750 PSI/190 BAR	1500/1800	1.772 in./45 mm	1.969 in./50 mm	104.5
MSS50	69.5 GPM/263 LPM	2250 PSI/155 BAR	750 RPM	1.969 in./50 mm	2.758 in./70 mm	107.1
MSS50	68.7 GPM/260 LPM	2250 PSI/155 BAR	1500/1800	1.969 in./50 mm	1.969 in./50 mm	105.9
MSS55	84.0 GPM/317 LPM	1800 PSI/124 BAR	750 RPM	2.165 in./55 mm	2.758 in./70 mm	103.6
MSS55	83.0 GPM/314 LPM	1800 PSI/124 BAR	1500/1800	2.165 in./55 mm	1.969 in./50 mm	102.3

### How to order/Examples of Part Numbers:

When ordering with gear box:

Start with Model

RPM (ex.: 15=1500 RPM)

Gear Box Positioned on Left/Right

Add Gear Position (1-5)

MSS36

15

R

So the Part Number in the Above Example: **MSS3615R1**

(Model is MS36A, with an RPM of 1500, gear box positioned on right side of pump, in the first postion.)

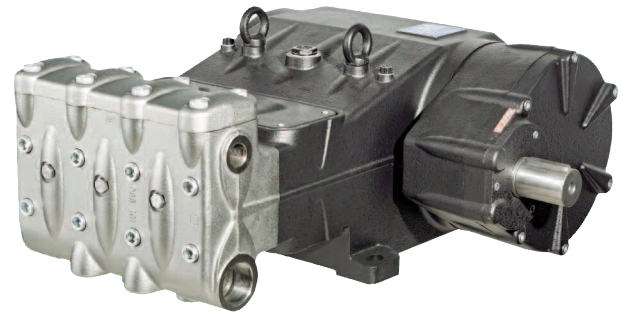
Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# MK 40/45/50 SERIES

# INDUSTRIAL PUMPS

## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 3 flows
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Available with external gear box in 1500/1800 RPM, positionable on left or right
- SAE "D" hydraulic drive available
- Includes drain/priming valve kit
- Gear Ratios: 1500 RPM=2.65:1, 1800=3.29:1



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## MATERIALS

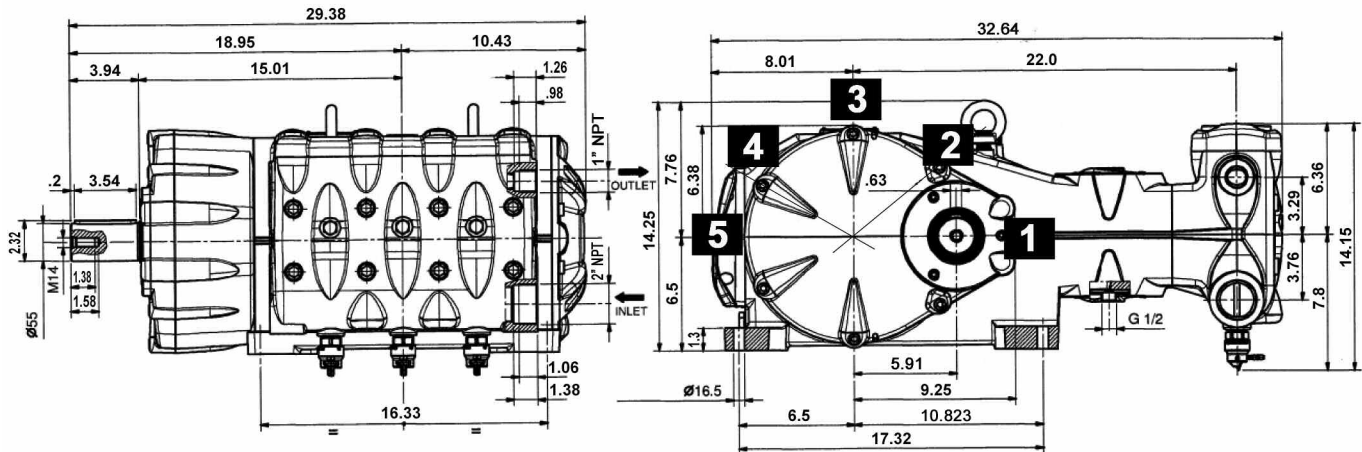
- Pump body in cast iron
- Manifold made of spheroidal cast iron, nickel treated
- Self adjusting spherical roller bearings on crankshaft
- Forged steel connecting rods with antifricition bearings
- Crankshaft made of nitrided, hardened and tempered alloy steel
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 2" NPT
- Discharge Port Thread: ..... 1" NPT-F
- Shaft Diameter: ..... 2.165"/55 mm
- Stroke: ..... 2.835"/72 mm
- Pump Dimensions: ..... 32.64" x 29.38" x 14.25"
- Crankcase Oil Capacity: ..... 456.5 oz. (13.5 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 833 lbs./378 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
MK40A	40.0 GPM/151 LPM	5800 PSI/400 BAR	1500/1800 RPM	1.575 in./40 mm	159
MK45A	50.0 GPM/190 LPM	4350 PSI/300 BAR	1500/1800 RPM	1.722 in./45 mm	149
MK50A	62.0 GPM/235 LPM	3625 PSI/250 BAR	1500/1800 RPM	1.969 in./50 mm	154

How to order/Examples of Part Numbers:

When ordering with gear box:



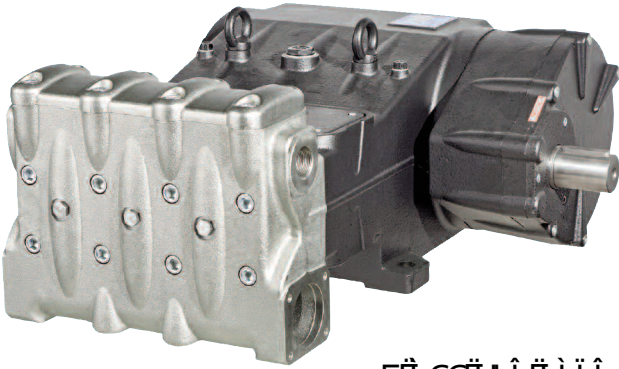
So the Part Number in the Above Example: **MK40A15L1**

(Model is MK40A, with an RPM of 1500, gear box positioned on left side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# INDUSTRIAL PUMPS

# MK 55/60/65 SERIES



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## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 3 flows
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Available with external gear box in 1500/1800 RPM, positionable on left or right
- SAE-D hydraulic drive available
- Includes drain/priming valve kit
- Gear ratios: 1500 RPM=2.65:1, 1800 RPM=3.29:1

## MATERIALS

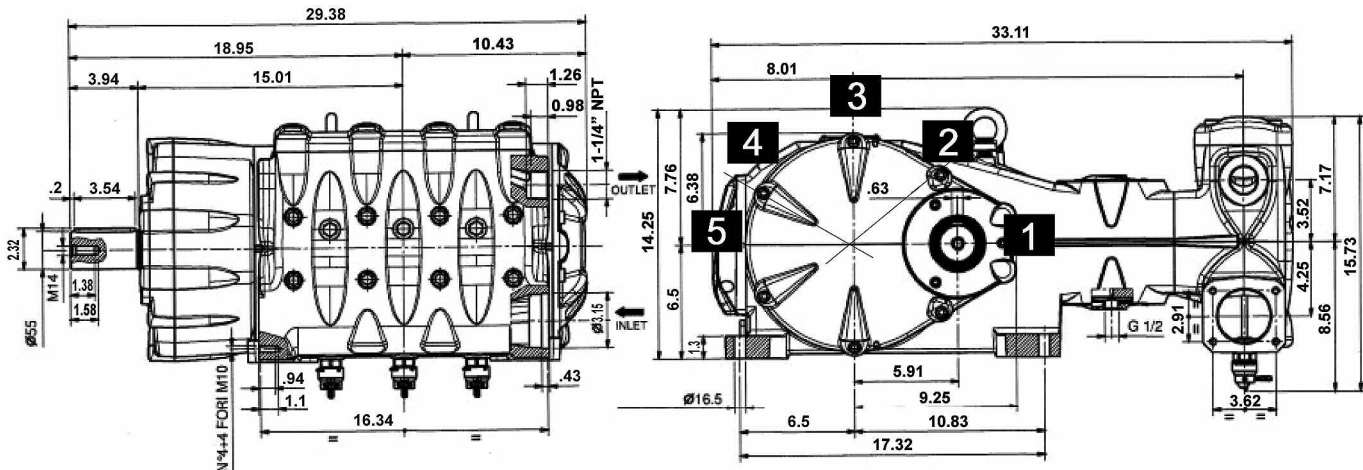
- Pump body in cast iron
- Manifold made of spheroidal cast iron, nickel treated
- Self adjusting spherical roller bearings on crankshaft
- Forged steel connecting rods with antifriction bearings
- Crankshaft made of nitrided, hardened and tempered alloy steel
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 3" NPT-Flange
- Discharge Port Thread: ..... 1-1/4" NPT-F
- Shaft Diameter: ..... 2.165"/55 mm
- Stroke: ..... 2.835"/72 mm
- Pump Dimensions: ..... 33.11" x 29.38" x 14.25"
- Crankcase Oil Capacity: ..... 456.5 oz. (13.5 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 862 lbs./391 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
MK55A	75.0 GPM/283 LPM	2900 PSI/200 BAR	1500/1800 RPM	2.165 in./55 mm	149
MK60A	90.0 GPM/340 LPM	2500 PSI/170 BAR	1500/1800 RPM	2.362 in./60 mm	152
MK65A	107.0 GPM/406 LPM	2175 PSI/150 BAR	1500/1800 RPM	2.559 in./65 mm	160

How to order/Examples of Part Numbers:

When ordering with gear box:



So the Part Number in the Above Example: **MK55A15L1**

(Model is MK55A, with an RPM of 1500, gear box positioned on left side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# MKS 40/45/50 SERIES

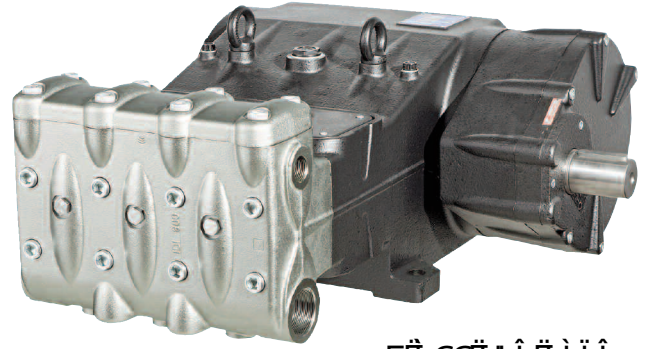
# INDUSTRIAL PUMPS

## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 3 flows
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Available with external gear box in 1500/1800 RPM, positionable on left or right
- SAE-D hydraulic drive available
- Includes drain/priming valve kit
- Gear Ratios: 1500 RPM=2.23:1, 1800 RPM=2.65:1

## MATERIALS

- Pump body in cast iron
- Manifold made of spheroidal cast iron, nickel treated
- Self adjusting spherical roller bearings on crankshaft
- Forged steel connecting rods with antifriction bearings
- Crankshaft made of nitrided, hardened and tempered alloy steel
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves



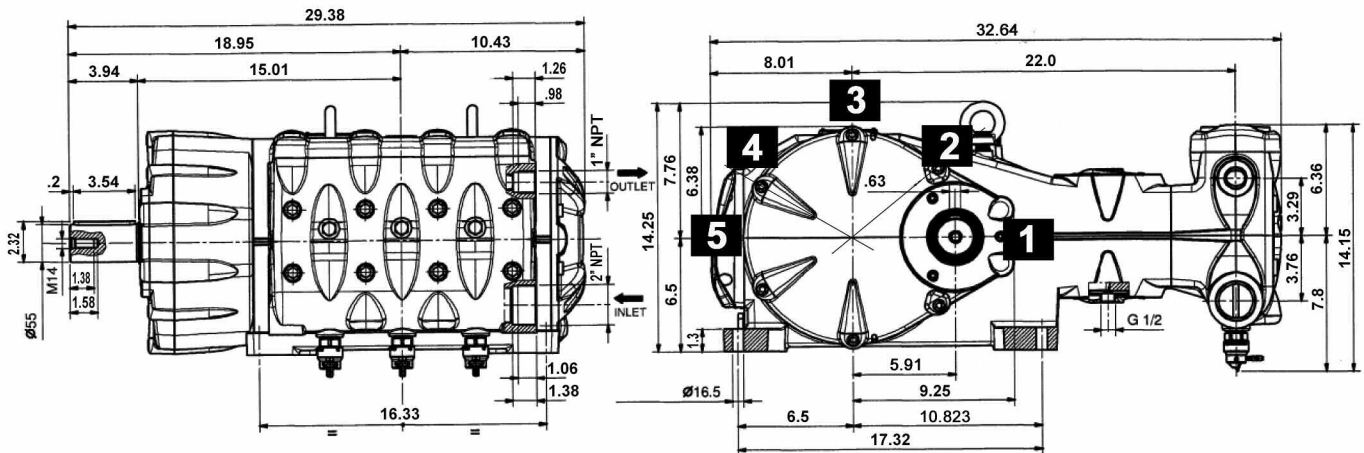
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## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 2" NPT
- Discharge Port Thread: ..... 1" NPT-F
- Shaft Diameter: ..... 2.165"/55 mm
- Stroke: ..... 2.835"/72 mm
- Pump Dimensions: ..... 32.64" x 29.38" x 14.25"
- Crankcase Oil Capacity: ..... 456.5 oz. (13.5 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 833 lbs./378 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
MKS40A	48.7 GPM/184 LPM	5800 PSI/400 BAR	1500/1800 RPM	1.575 in./40 mm	194
MKS45A	61.6 GPM/233 LPM	4350 PSI/300 BAR	1500/1800 RPM	1.722 in./45 mm	184
MKS50A	76.0 GPM/288 LPM	3600 PSI/250 BAR	1500/1800 RPM	1.969 in./50 mm	187

## How to order/Examples of Part Numbers:

When ordering with gear box:



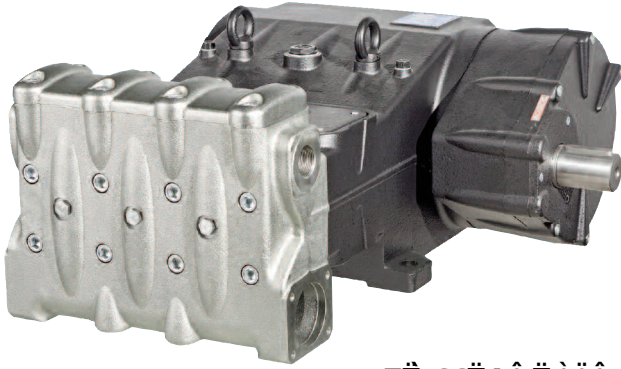
So the Part Number in the Above Example: **MKS40A15L1**

(Model is MKS40A, with an RPM of 1500, gear box positioned on left side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# INDUSTRIAL PUMPS

# MKS 55/60/65 SERIES



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## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 3 flows
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Available with external gear box in 1500/1800 RPM, positionable on left or right
- SAE "D" hydraulic drive available
- Includes drain/priming valve kit
- Gear Ratios: 1500 RPM=2.23:1, 1800 RPM=2.65:1

## MATERIALS

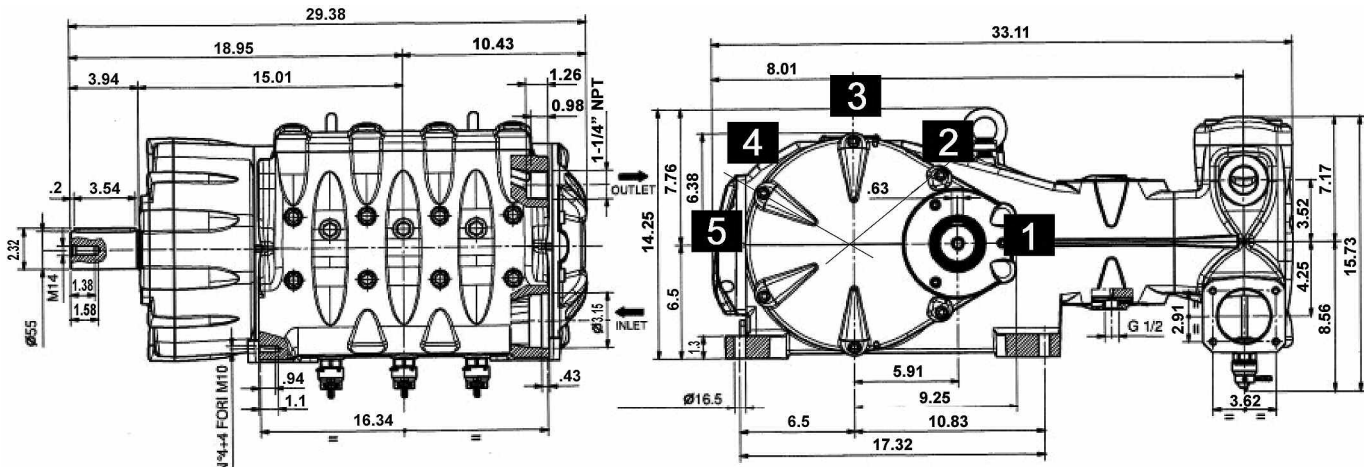
- Pump body in cast iron
- Manifold made of spheroidal cast iron, nickel treated
- Self adjusting spherical roller bearings on crankshaft
- Forged steel connecting rods with antifricition bearings
- Crankshaft made of nitrided, hardened and tempered alloy steel
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 3" NPT-Flange
- Discharge Port Thread: ..... 1-1/4" NPT-F
- Shaft Diameter: ..... 2.165"/55 mm
- Stroke: ..... 2.835"/72 mm
- Pump Dimensions: ..... 33.11" x 29.38" x 14.25"
- Crankcase Oil Capacity: ..... 456.5 oz. (13.5 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 862 lbs./391 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
MKS55A	92.0 GPM/348 LPM	2950 PSI/203 BAR	1500/1800 RPM	2.165 in./55 mm	185
MKS60A	109 GPM/414 LPM	2500 PSI/170 BAR	1500/1800 RPM	2.362 in./60 mm	187
MKS65A	128 GPM/486 LPM	2100 PSI/150 BAR	1500/1800 RPM	2.559 in./65 mm	183

How to order/Examples of Part Numbers:

When ordering with gear box:



So the Part Number in the Above Example: **MKS55A15L1**

(Model is MKS55A, with an RPM of 1500, gear box positioned on left side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.



# LK SERIES

# INDUSTRIAL PUMPS

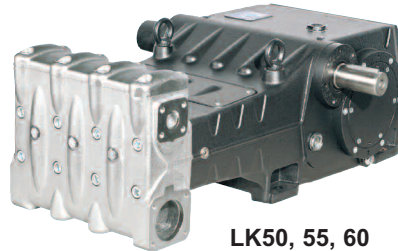
## FEATURES

- Triplex Plunger Pump, available in 6 flows
- Drive shaft with double projection
- Incorporated gear box available in three ratios, 1500 RPM=2.950:1, 1750 RPM=3.158:1 and 1900=3.389:1
- Double pressure packings
- Vertically fitted suction/delivery valves
- Splash lubrication
- Optional drain/priming valve kit

## MATERIALS

- Pump body in cast iron
- Manifold made of spheroidal cast iron, nickel treated
- Self adjusting spherical roller bearings on crankshaft
- Forged connecting rods with antifriction bearings
- Crankshaft made of nitrided, hardened and tempered alloy steel
- Cast iron plunger guides, nickel nitrided
- Valves made in stainless steel and bronze

**NEW!**



LK50, 55, 60



LK36, 40, 45

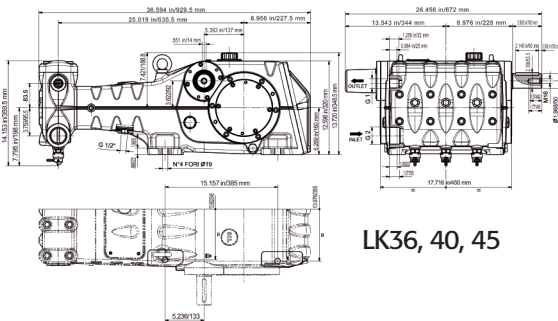
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## COMMON SPECIFICATIONS

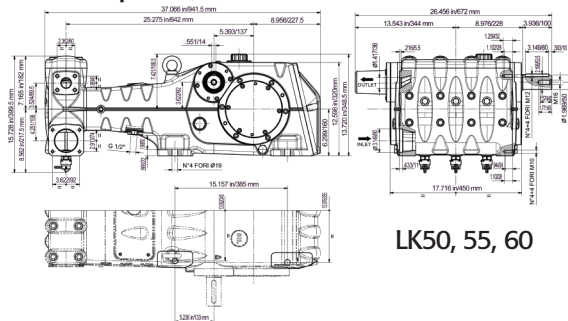
- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: (LK36, 40, 45) ..... 2" NPT-F  
(LK50, 55, 60) ..... 3" NPT-F Flange
- Discharge Port Thread: (LK36, 40, 45) ..... 1" NPT-F  
(LK55, 55, 60) 1-1/4" NPT-F Flange
- Shaft Diameter: ..... 1.969"/50 mm
- Stroke: ..... 3.546"/90 mm
- Pump Dimensions: ..... 36.4" x 26.4" x 13.7"
- Crankcase Oil Capacity: ..... 473.5 oz/14 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... .829 lbs./376 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



LK36, 40, 45



LK50, 55, 60

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
LK3615	37.0 GPM/140 LPM	5800 PSI/400 BAR	1500 RPM	1.417 in./36 mm	147
LK3617	40.1 GPM/152 LPM	5800 PSI/400 BAR	1750 RPM	1.417 in./36 mm	159
LK4015	45.7 GPM/173 LPM	5075 PSI/350 BAR	1500 RPM	1.575 in./40 mm	159
LK4017	49.6 GPM/188 LPM	5075 PSI/350 BAR	1750 RPM	1.575 in./40 mm	172
LK4515	57.6 GPM/218 LPM	4060 PSI/280 BAR	1500 RPM	1.772 in./45 mm	160
LK4517	62.8 GPM/238 LPM	4060 PSI/280 BAR	1750 RPM	1.772 in./45 mm	175
LK5015	71.0 GPM/269 LPM	3335 PSI/230 BAR	1500 RPM	1.969 in./50 mm	162
LK5017	77.6 GPM/294 LPM	3335 PSI/230 BAR	1750 RPM	1.969 in./50 mm	178
LK5515	86.1 GPM/326 LPM	2755 PSI/190 BAR	1500 RPM	2.165 in./55 mm	163
LK5517	93.7 GPM/355 LPM	2755 PSI/190 BAR	1750 RPM	2.165 in./55 mm	177
LK6015	102.4 GPM/388 LPM	2320 PSI/160 BAR	1500 RPM	2.362 in./60 mm	163
LK6017	111.7 GPM/423 LPM	2320 PSI/160 BAR	1750 RPM	2.362 in./60 mm	178

How to order/Examples of Part Numbers:

Start with Model

LK40

RPM (ex.: 15=1500 RPM)

15

So the Part Number in the Above Example: **LK4015** (Model is LH40, with an RPM of 1500.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 2 flows
- Patent pending, symmetrical power end design featuring top and bottom mounting holes for easy left to right shaft conversion
- Pressure packing design integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- SAE-C hydraulic drive available bell housing and flexible couplers available
- Available with external gear box (direct drive only), see page 40



## MATERIALS

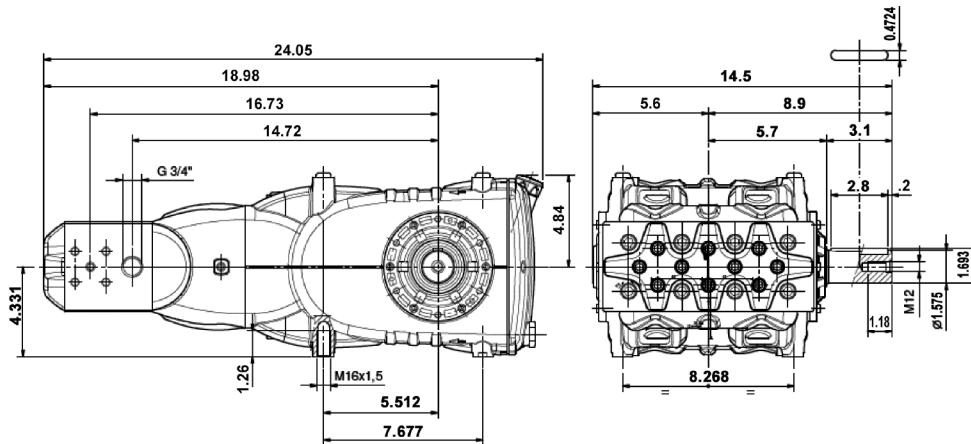
- High resistance die-cast light alloy crankcase
- Stainless steel manifold, nickel treated
- Taper roller bearings
- Special antifriction, forged, light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrited
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 100 PSI
- Minimum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*86° F
- Inlet Port Thread: ..... 3/4" BSP-F
- Discharge Port Thread: ..... 1/2" BSP-F Flange
- Shaft Diameter: ..... 1.575"/40 mm
- Stroke: ..... 1.969"/50 mm
- Pump Dimensions: ..... 24" x 15" x 9.0"
- Crankcase Oil Capacity: ..... 128.5 oz. (3.8 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 150 lbs./68 kg

### Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold) specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
VF12	3.4 GPM/12.5 LPM	21750 PSI/1500 BAR	750 RPM	.472 in./12 mm	50.3
	4.0 GPM/15 LPM	17400 PSI/1200 BAR	1000 RPM	.472 in./12 mm	48.0
VF14	4.6 GPM/17 LPM	15950 PSI/1100 BAR	750 RPM	.551 in./14 mm	50.2
	6.1 GPM/23 LPM	11600 PSI/800 BAR	1000 RPM	.551 in./14 mm	48.7

How to order/Examples of Part Numbers:

When ordering with gear box:



So the Part Number in the Above Example: **VF1215RI**

(Model is VF12, with an RPM of 1500, gear box positioned on left side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

## FEATURES

- A "New Generation" Pump
- Triplex Plunger Pump, available in 2 flows
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- Available with external gear box in 1500/1800/2200 RPM, positionable on left or right
- SAE-C hydraulic drive available
- Available with external gear box (direct drive only), see page 40

**NEW!**



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## MATERIALS

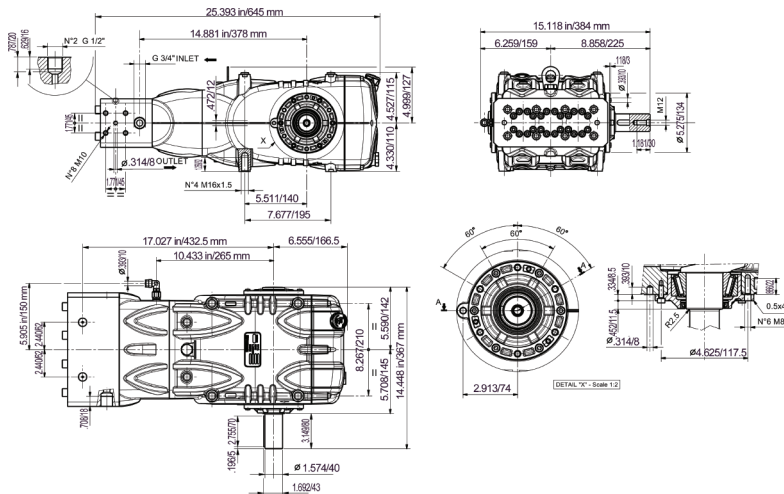
- High resistance die-cast light alloy crankcase
- Stainless steel manifold, nickel treated
- Taper roller bearings
- Special antifriction, forged, light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrided
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 3/4" BSP-F
- Discharge Port Thread: ..... 1/2" BSP-F Flange
- Shaft Diameter: ..... 1.575"/40 mm
- Stroke: ..... 1.969"/50 mm
- Pump Dimensions: ..... .25.39" x 14.44" x 15.11"
- Crankcase Oil Capacity: ..... 162.3 oz. (4.8 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 212 lbs./96 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
VK12	5.4 GPM/20.4 LPM	21750 PSI/1500 BAR	1200 RPM	.472 in./12 mm	79
VK14	7.4 GPM/28 LPM	15590 PSI/1075 BAR	1200 RPM	.551 in./14 mm	79

## How to order/Examples of Part Numbers:

When ordering with gear box:



So the Part Number in the Above Example: **VK1215L1**

(Model is VK12, with an RPM of 1500, gear box positioned on left side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

F&H



### FEATURES

- Triplex Plunger Pump, available in 5 flows
  - Double pressure packings
  - Pressure packing integrated cooling system
  - Horizontally fitted in-line valves
  - Splash lubrication
  - Available with external gear box available (1500, 1800 & 2200 RPM) and positionable on left or right
  - SAE-C, 4-bolt hydraulic drive available
- Solid shaft only for belt-driven applications*

### MATERIALS

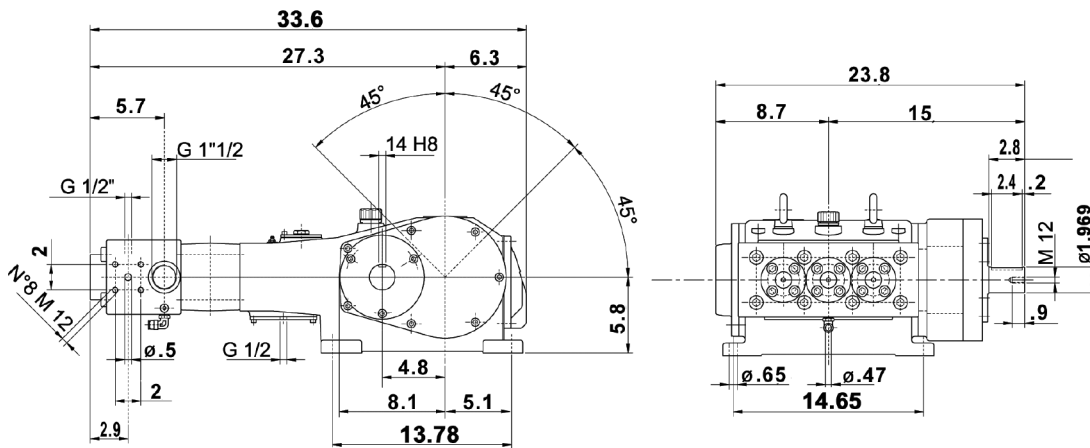
- High Resistance Stainless Steel Manifold
- Solid Ceramic Plungers
- Forged Steel Connecting Rods
- Stainless Steel Valves
- Tempered Steel Alloy Crankshaft
- Cast Iron Crankcase
- Double Rim Roller Bearings
- Proprietary Seal Technology

### COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 75 PSI
- Minimum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*85° F
- Inlet Port Thread: ..... 1-1/2" G
- Discharge Port Thread: ..... 1/2" G Flange
- Shaft Diameter: ..... 1.969"/50 mm
- Stroke: ..... 2.362"/60 mm
- Pump Dimensions: ..... 33.6" x 23.8" x 12.45"
- Crankcase Oil Capacity (w/gear box): . 338 oz. (10 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 618 lbs./280 kg

### Product Group: V

\*Please consult technical guide or GP Sales Representative for additional fitting needs.



Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
VS16	7.1 GPM/27 LPM	21750 PSI/1500 BAR	1500 RPM	.945 in./16 mm	105.6
VS18	9.0 GPM/34 LPM	17400 PSI/1200 BAR	1500 RPM	.709 in./18 mm	107.3
VS20	11.1 GPM/42 LPM	13050 PSI/900 BAR	1500 RPM	.787 in./20 mm	99.2
VS22	13.2 GPM/50 LPM	10800 PSI/750 BAR	1500 RPM	.868 in./22 mm	99.6
VS24	15.8 GPM/60 LPM	8700 PSI/600 BAR	1500 RPM	.945 in./24 mm	94.2

### How to order/Examples of Part Numbers:

When ordering with gear box:



So the Part Number in the Above Example: **VS1615R1**

(Model is VS16, with an RPM of 1500, gear box positioned on right side of pump, in the first position.)

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# SK SERIES

# INDUSTRIAL PUMPS

## FEATURES

- Triplex Plunger Pump, available in 6 flows
- Double pressure packings
- Pressure packing integrated cooling system
- Horizontally fitted in-line valves
- Splash lubrication
- Hydraulic drive available
- Incorporated gear box available in two ratios  
1500 RPM=2.950:1 and 1900 RPM=3.389:1

**NEW!**



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## MATERIALS

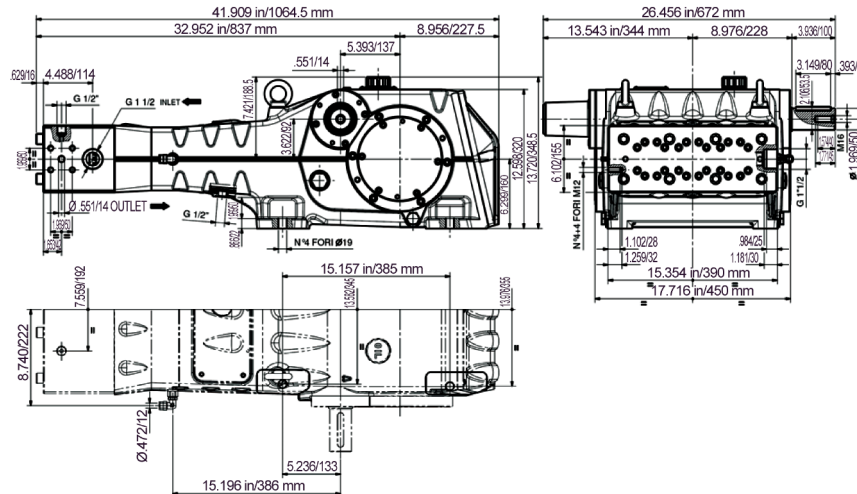
- High Resistance Stainless Steel Manifold
- Solid Ceramic Plungers
- Forged Steel Connecting Rods
- Stainless Steel Valves
- Tempered Steel Alloy Crankshaft
- Cast Iron Crankcase
- Double Rim Roller Bearings
- Proprietary Seal Technology

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 100 PSI
- Minimum Inlet Pressure: ..... 75 PSI
- Maximum Fluid Temperature: ..... \*86° F
- Inlet Port Thread: ..... 1-1/2" BSP-F
- Discharge Port Thread: ..... 14 mm Flange
- Shaft Diameter: ..... 1.969"/50 mm
- Stroke: ..... 3.546"/90 mm
- Pump Dimensions: ..... 42" x 26.4" x 13.7"
- Crankcase Oil Capacity: ..... 473.4 oz. (14 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 840 lbs./381 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for additional fitting needs.

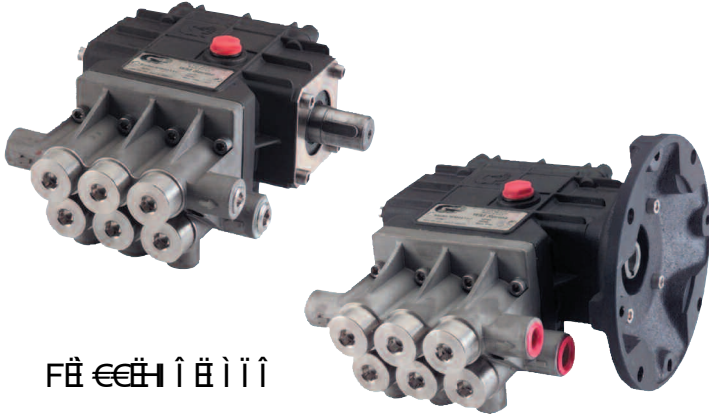


Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
SK2015	11.4 GPM/43 LPM	21750 PSI/1500 BAR	1500 RPM	.787 in./20 mm	170
SK2017	11.6 GPM/44 LPM	21750 PSI/1500 BAR	1750 RPM	.787 in./20 mm	173
SK2215	13.7 GPM/52 LPM	18850 PSI/1300 BAR	1500 RPM	.866 in./22mm	177
SK2217	14.0 GPM/53 LPM	18850 PSI/1300 BAR	1750 RPM	.866 in./22mm	181
SK2415	16.4 GPM/62 LPM	15950 PSI/1100 BAR	1500 RPM	.945 in./24 mm	179
SK2417	16.6 GPM/63 LPM	15950 PSI/1100 BAR	1750 RPM	.945 in./24 mm	181
SK2615	19.3 GPM/73 LPM	13050 PSI/900 BAR	1500 RPM	1.024 in./26 mm	173
SK2617	19.5 GPM/74 LPM	13050 PSI/900 BAR	1750 RPM	1.024 in./26 mm	174
SK2815	22.2 GPM/84 LPM	11600 PSI/800 BAR	1500 RPM	1.102 in./28 mm	176
SK2817	22.7 GPM/86 LPM	11600 PSI/800 BAR	1750 RPM	1.102 in./28 mm	180
SK3015	25.3 GPM/97 LPM	10150 PSI/700 BAR	1500 RPM	1.181 in./30 mm	176
SK3017	25.9 GPM/98 LPM	10150 PSI/700 BAR	1750 RPM	1.181 in./30 mm	180

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# AGGRESSIVE ENVIRONMENT PUMPS WM SERIES



F&E €H I Æ I I I

## FEATURES

- 316 stainless steel fluid end for superior corrosion protection
- Solid ceramic plungers with advanced surface finish assure durability and longevity
- Compact design offers solutions to space limitations
- Parallel inlet and outlet valve design for efficiency and easy maintenance
- Innovative wear resistant high and low pressure seals
- Available in left-hand configuration

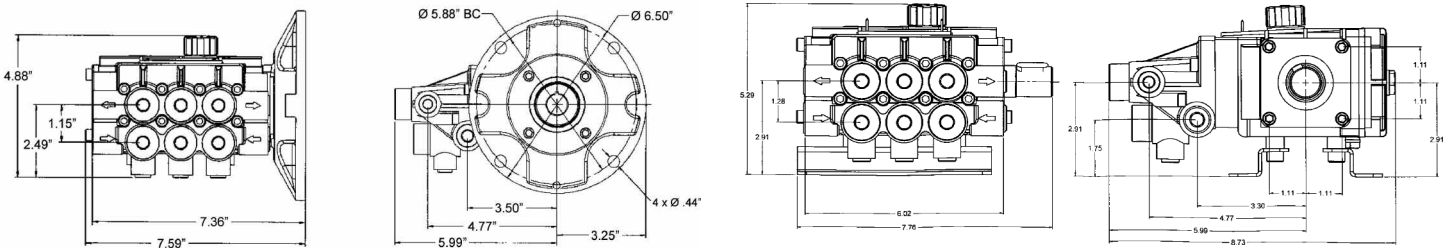
## MATERIALS

- 316 Stainless Steel Manifold and Wetted Parts
- Solid Ceramic Plungers
- Anodized Crankcase
- 300 Series Stainless Steel Fasteners
- Buna-N Seals, Also Available in EPDM

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 50 PSI
- Maximum Discharge Pressure: ..... 1500 PSI
- Maximum Fluid Temperature: ..... 140° F
- RPM: ..... 1750 RPM
- Discharge Port Thread: ..... 3/8" NPT-F
- Inlet Port Thread: .. 1/2" NPT-F / 3/8-19 NPT-F (WM0515C)
- Maximum Inlet Vacuum: ..... -5 PSI
- Pump Dimensions: ..... 9" x 7.5" x 6.0"
- Crankcase Oil Capacity: ..... 12.0 oz. (.35 liters)  
..... (use GP Series 100 Oil-see page 57)
- Shipping Weight: ..... 13.5 lbs./6.12 kg

## Product Group: V



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	BORE	STROKE	SHAFT
WM0515C	0.5 GPM/2 LPM	1500 PSI/103 BAR	.787 in./20 mm	.063 in./1.6 mm	5/8" Hollow
WM0815C	0.8 GPM/3 LPM	1500 PSI/103 BAR	.787 in./20 mm	.099 in./2.5 mm	5/8" Hollow
WM1015C	1.0 GPM/4 LPM	1500 PSI/103 BAR	.787 in./20 mm	.122 in./3.1 mm	5/8" Hollow
WM1615C	1.6 GPM/6 LPM	1500 PSI/103 BAR	.787 in./20 mm	.189 in./4.8 mm	5/8" Hollow
WM2315C	2.3 GPM/9 LPM	1500 PSI/103 BAR	.787 in./20 mm	.295 in./7.5 mm	5/8" Hollow
WM3015C	3.0 GPM/11 LPM	1500 PSI/103 BAR	.787 in./20 mm	.370 in./9.4 mm	5/8" Hollow
WM3615C	3.6 GPM/14 LPM	1500 PSI/103 BAR	.787 in./20 mm	.413 in./10.5 mm	5/8" Hollow
WM4215C	4.2 GPM/16 LPM	1500 PSI/103 BAR	.787 in./20 mm	.492 in./12.5 mm	5/8" Hollow
WM4215S	4.2 GPM/16 LPM	1500 PSI/103 BAR	.787 in./20 mm	.492 in./12.5 mm	24 mm Solid
WM4215C6	4.2 GPM/16 LPM	1500 PSI/103 BAR	.787 in./20 mm	.492 in./12.5 mm	3/4" Hollow

Above pumps also available with crankshaft on left side. To order, add an "L" to the end of the model number.

Also available with EPDM, to order add "E" to the end of the model number.

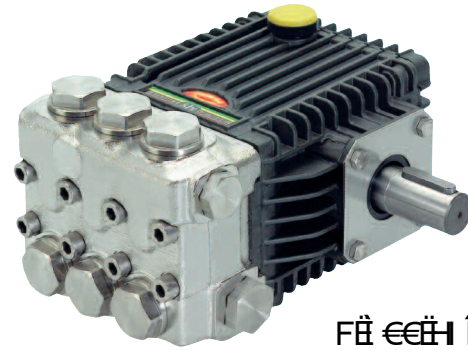
Available with motor attached.

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# TX SERIES 63 AGGRESSIVE ENVIRONMENT PUMPS

## FEATURES

- Triplex Plunger Pump
- 316 Stainless Steel manifold for maximum corrosion resistance
- Energized special pressure packings
- 316 Stainless Steel inlet and outlet valves
- Solid ceramic plungers
- Ball bearings on both sides
- Patent-pending "high tech" low and high pressure seals



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## MATERIALS

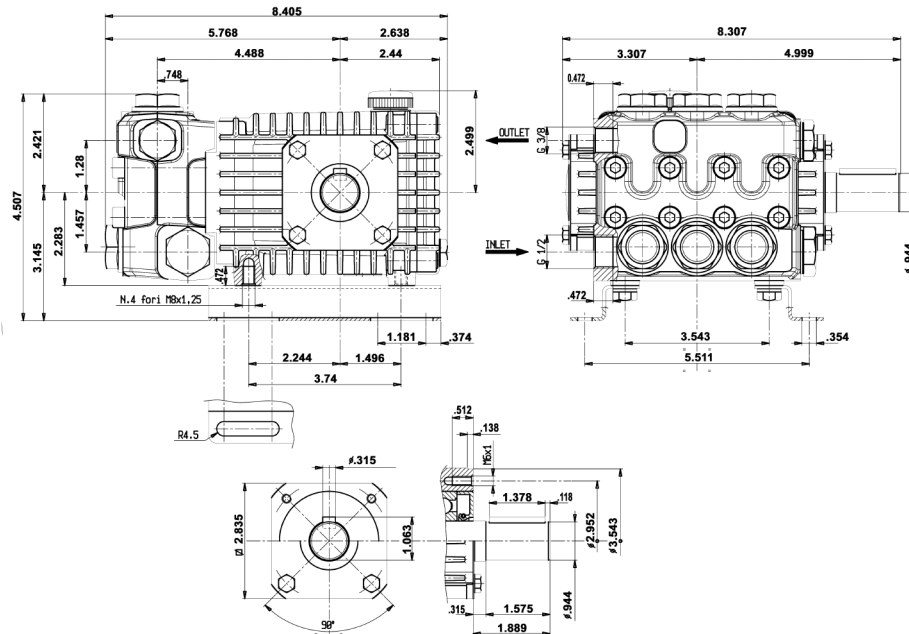
- 316 Stainless Steel manifold
- 316 Stainless Steel Valve cap
- PA11 valve guide
- 316 Stainless Steel valve spring
- 316 Stainless Steel valve seat
- Solid ceramic plungers
- 316 Stainless Steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 115 PSI
- Maximum Fluid Temperature (18 mm): ..... \*185° F
- Maximum Fluid Temperature (15 mm): ..... \*140° F
- Inlet Port Thread: ..... 1/2"-14 BSP-F
- Discharge Port Thread: ..... 3/8"-19 BSP-F
- Shaft Diameter: ..... .9449"/24 mm
- Pump Dimensions (no rails): ..... 8.4" x 8.3" x 4.8"
- Crankcase Oil Capacity: ..... 14.0 oz. (.41 liters)
- ..... (use GP Series 100 Oil-see page 57)
- Shipping Weight: ..... 22.3 lbs./10 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	STROKE	EBHP
TX1510S17SS	2.1 GPM/8 LPM	2200 PSI/152 BAR	1750 RPM	.591 in./15 mm	.394 in./10 mm	3.2
TX1512S17SS	2.6 GPM/10 LPM	2200 PSI/152 BAR	1750 RPM	.591 in./15 mm	.472 in./12 mm	4.0
TX1810S17SS	3.1 GPM/12 LPM	2000 PSI/138 BAR	1750 RPM	.709 in./18 mm	.394 in./10 mm	4.2
TX1812S17SS	3.8 GPM/14 LPM	2000 PSI/138 BAR	1750 RPM	.709 in./18 mm	.472 in./12 mm	5.2

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# AGGRESSIVE ENVIRONMENT PUMPS T SERIES 47



## FEATURES

- Triplex Plunger Pump
- 316 Stainless Steel manifold for maximum corrosion resistance
- The preferred pump frame in the industry
- Solid ceramic plungers with continuously lubricated packings
- Over-sized connecting rods for maximum life
- Patent-pending "high tech" low and high pressure seals

## MATERIALS

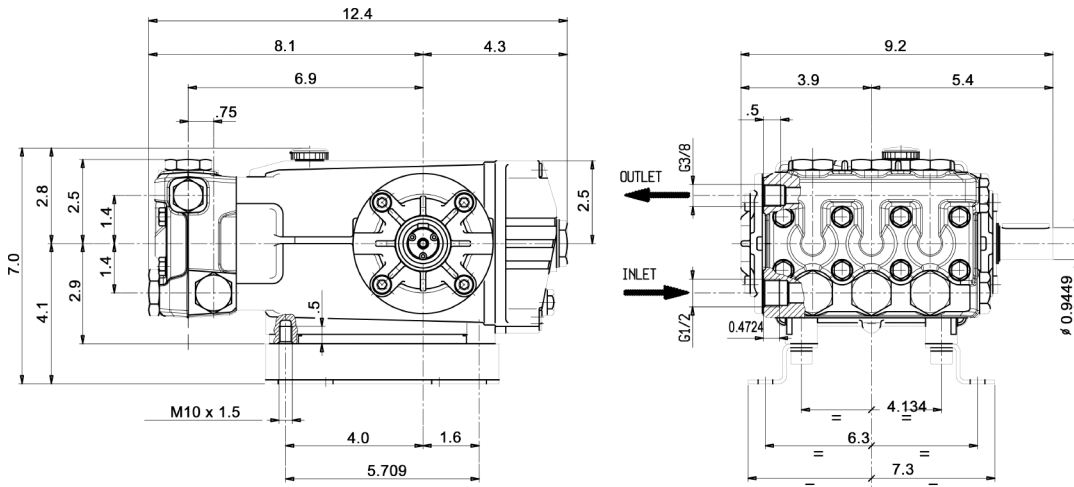
- 316 Stainless Steel manifold
- 316 Stainless Steel valve cap
- PA11 valve guide
- 316 Stainless Steel valve spring
- 316 Stainless Steel valve seat
- Solid ceramic plungers
- 316 Stainless Steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 115 PSI
- Maximum Fluid Temperature (22 mm): ..... \*185° F
- Maximum Fluid Temperature (20 mm): ..... \*140° F
- Inlet Port Thread: ..... 1/2"-14 BSP-F
- Discharge Port Thread: ..... 3/8"-19 BSP-F
- Shaft Diameter: ..... .9449"/24 mm
- Pump Dimensions (no rails): ..... 12.4" x 9.2" x 5.7"
- Crankcase Oil Capacity: ..... 40.6 oz. (1.2 liters)  
..... (use GP Series 100 Oil-see page 57)
- Shipping Weight: ..... 31 lbs./14 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	STROKE	EBHP
TS2012SS	4.0 GPM/15 LPM	2200 PSI/152 BAR	1450 RPM	.787 in./20 mm	.472 in./12 mm	6.0
TS2012SS	4.75 GPM/18 LPM	2200 PSI/152 BAR	1750 RPM	.787 in./20 mm	.472 in./12 mm	7.2
TS2212SS	4.75 GPM/18 LPM	2200 PSI/152 BAR	1450 RPM	.866 in./22 mm	.472 in./12 mm	7.2
TS2016SS	5.55 GPM/21 LPM	2200 PSI/152 BAR	1450 RPM	.787 in./20 mm	.630 in./16 mm	8.4
TS2212SS	5.55 GPM/21 LPM	2200 PSI/152 BAR	1750 RPM	.866 in./22 mm	.472 in./12 mm	8.4

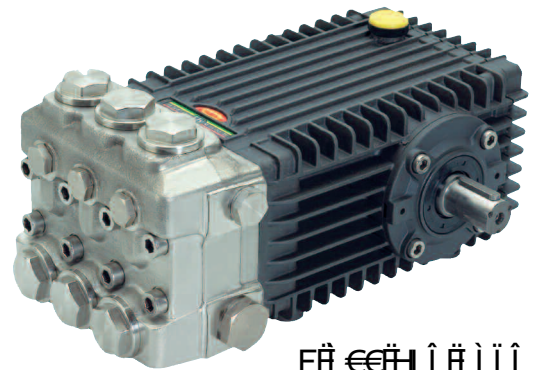
Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.



# TSE SERIES 66 AGGRESSIVE ENVIRONMENT PUMPS

## FEATURES

- Triplex Plunger Pump
- New ceramic plunger design improves thermal shock resistance
- 316 Stainless Steel wetted parts
- 316 Stainless Steel forged manifold
- Stainless Steel inlet/outlet valve plugs with improved hydrostatic performance
- Fully anodized crankcase
- Patent-pending "high tech" low and high pressure seals



## MATERIALS

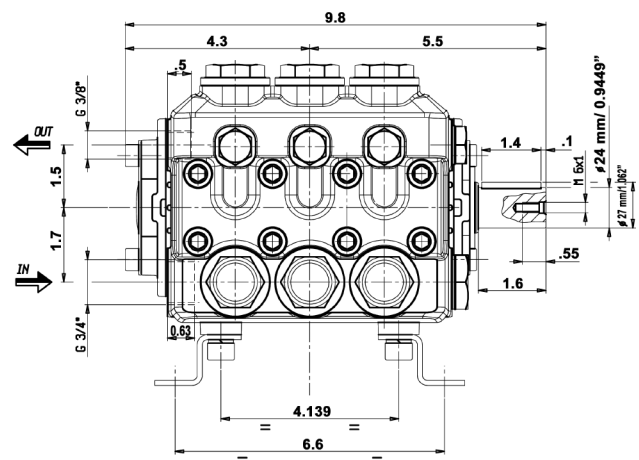
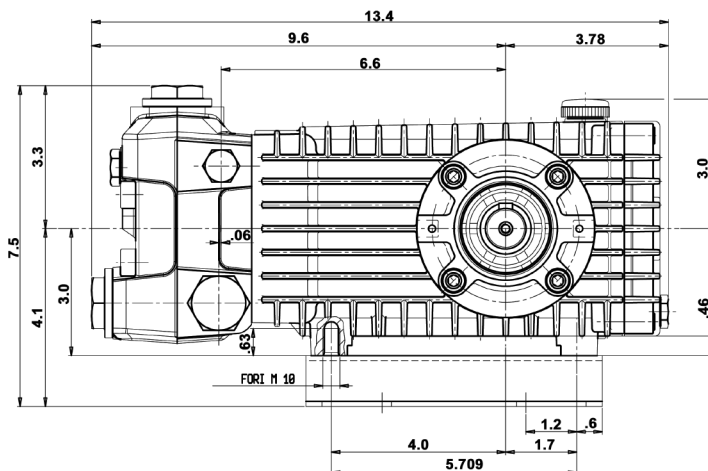
- 316 Stainless Steel manifold
- 316 Stainless Steel Valve cap
- PA11 valve guide
- 316 Stainless Steel valve spring
- 316 Stainless Steel valve seat
- Solid ceramic plunger
- 316 Stainless Steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 115 PSI
- Maximum Fluid Temperature: ..... \*185° F
- Inlet Port Thread: ..... 3/4"-14 BSP-F
- Discharge Port Thread: ..... 3/8"-19 BSP-F
- Shaft Diameter: ..... 0.9449"/24 mm
- Stroke: ..... 0.8268"/21 mm
- Pump Dimensions (no rails): ..... 13.4" x 9.83" x 6.28"
- Crankcase Oil Capacity: ..... 40.6 oz. (1.2 liters)  
..... (use GP Series 100 Oil-see page 57)
- Shipping Weight: ..... 42 lbs./19 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.

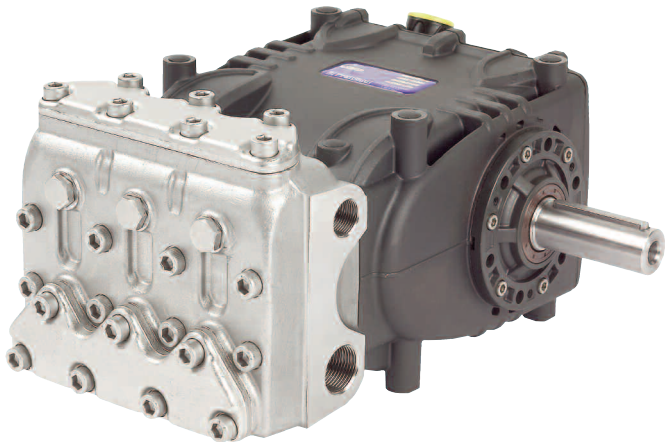


Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
TSF2021SS	8.5 GPM/32 LPM	2200 PSI/152 BAR	1750 RPM	.787 in./20 mm	21
TSF2221SS	10.2 GPM/39 LPM	2200 PSI/152 BAR	1750 RPM	.866 in./22 mm	21
TSF2421SS	12.0 GPM/45 LPM	2200 PSI/152 BAR	1750 RPM	.945 in./24 mm	20.5

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# AGGRESSIVE ENVIRONMENT PUMPS KEZ SERIES



Product Group: V

## MATERIALS

- Die-cast aluminum crankcase
- 316 Stainless steel manifold
- Taper roller bearings
- Special antifriction light alloy, forged, connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrided
- Cast iron piston guide, nickel-treated
- Solid ceramic plungers
- 316 Stainless Steel valves

## FEATURES

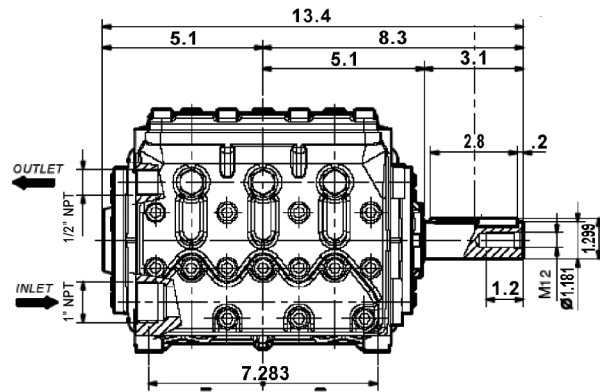
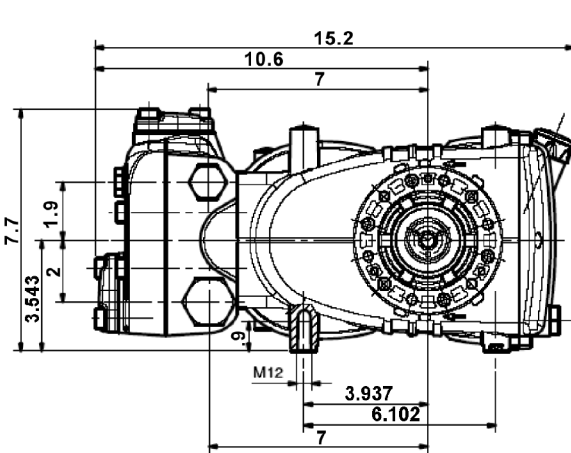
- High Pressure Triplex Plunger Pump
- Patent pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enable extra load at half the weight. This reduces vibrations and off center loads on the bearing for longer life and quieter operation
- Patent-pending "high tech" low and high pressure seals

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Minimum Inlet Pressure: ..... 5 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 1" NPT-F
- Discharge Port Thread: ..... 1/2" NPT-F
- Shaft Diameter: ..... 1.181"/30 mm
- Stroke: ..... 0.9055"/23 mm
- Pump Dimensions: ..... 15.1" x 13.4" x 7.7"
- Crankcase Oil Capacity: ..... 67.63 oz. (2 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 88 lbs./40 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



Note: All models come standard with crankshaft on right side (when facing manifold). Specify "L" when ordering left-hand version.

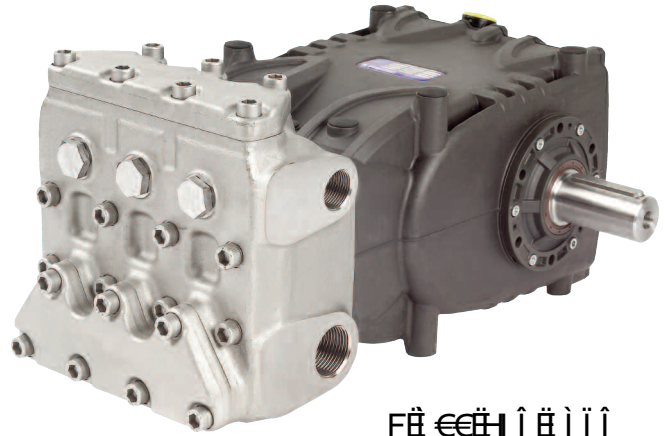
MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
KEZ20A	8.0 GPM/31 LPM	3000 PSI/207 BAR	1450 RPM	.787 in./20 mm	17
KEZ22A	10.0 GPM/38 LPM	3000 PSI/207 BAR	1450 RPM	.866 in./22 mm	21
KEZ24A	11.9 GPM/45 LPM	3000 PSI/207 BAR	1450 RPM	.944 in./24 mm	25
KEZ28A	16.3 GPM/61 LPM	2170 PSI/150 BAR	1450 RPM	1.102 in./28 mm	25
KEZ30A	18.5 GPM/70 LPM	1880 PSI/130 BAR	1450 RPM	1.181 in./30 mm	25
KEZ36A	24.0 GPM/91 LPM	1450 PSI/100 BAR	1300 RPM	1.417 in./36 mm	25

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# KFZ SERIES AGGRESSIVE ENVIRONMENT PUMPS

## FEATURES

- High Pressure Triplex Plunger Pump
- Patent pending, symmetrical power end design featuring top and bottom mounting holes allowing for easy left to right shaft conversion
- Low-high pressure packing design with integrated cooling system
- High volumetric efficiency suction/delivery valves featuring new spherical design of sealing areas
- Splash lubrication
- New high performance aluminum alloy connecting rods and a floating wrist pin enable extra load at half the weight
- SAE-C hydraulic drive available
- Available with external gearbox
- Patent-pending "high tech" low and high pressure seals  
Solid shaft only for belt-driven applications



## MATERIALS

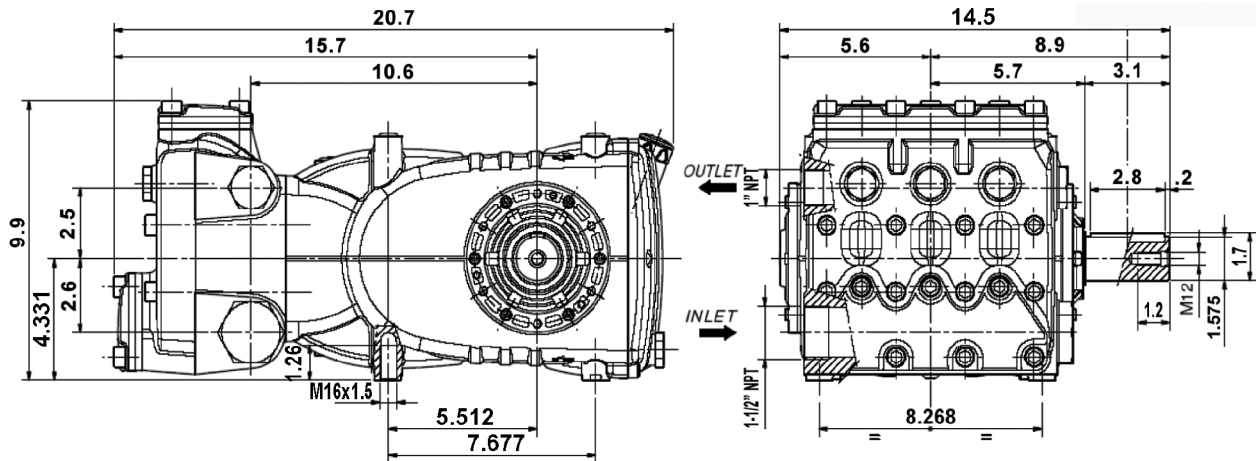
- High resistance light alloy crankcase
- 316 Stainless steel manifold
- Taper roller bearings
- Special antifriction light alloy, forged, connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrided
- Cast iron piston guide, nickel-treated
- Solid ceramic plungers
- 316 Stainless Steel valves

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 1-1/2" NPT-F
- Discharge Port Thread: ..... 1" NPT-F
- Shaft Diameter: ..... 1.575"/40 mm
- Stroke: ..... 1.969"/50 mm
- Pump Dimensions: ..... 20.7" x 14.5" x 9.9"
- Crankcase Oil Capacity: ..... 128.5 oz. (3.8 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 150 lbs./68 kg

### Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.

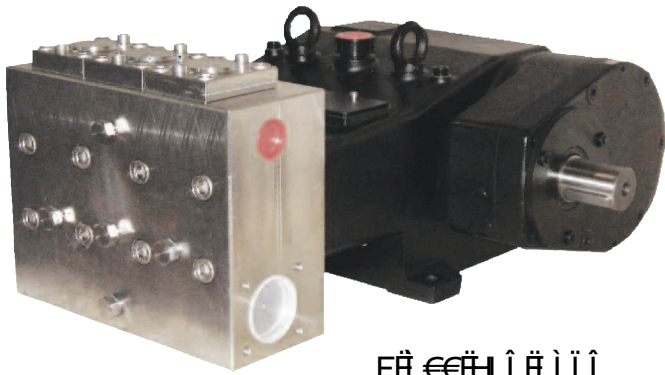


Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
KFZ28A	24.5 GPM/93 LPM	3000 PSI/207 BAR	1000 RPM	1.102 in./28 mm	50
KFZ30A	28.0 GPM/106 LPM	2900 PSI/200 BAR	1000 RPM	1.181 in./30 mm	55
KFZ36A	32.2 GPM/122 LPM	2300 PSI/160 BAR	800 RPM	1.417 in./36 mm	50
KFZ36A	36.2 GPM/137 LPM	2050 PSI/140 BAR	900 RPM	1.417 in./36 mm	50
KFZ36A	40.0 GPM/153 LPM	1900 PSI/130 BAR	1000 RPM	1.417 in./36 mm	52
KFZ40A	45.0 GPM/170 LPM	1600 PSI/110 Bar	900 RPM	1.574 in./40 mm	49

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# AGGRESSIVE ENVIRONMENT PUMPS MSN/MSZ SERIES



## FEATURES

- High Pressure Triplex Plunger Pump with gear box
- 316 Stainless Steel or Duplex Stainless Steel (ASTM A890) Manifold
- MSZ features 316 Stainless Steel wetted parts including valve plate and seat
- MSN feature 316 Stainless Steel wetted parts with 431 Stainless Steel valve plate and seat
- Gear reducer options in 1500 or 1800 RPM
- Gear Ratios: 1500 RPM=2.037:1, 1800 RPM=2.417:1

## MATERIALS

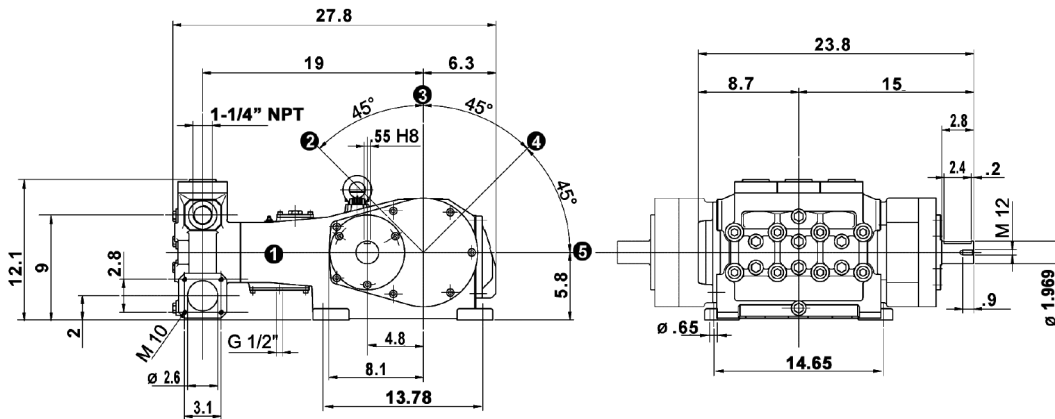
- Manifold in Duplex F51
- Plungers are Ceramic
- 316 Stainless Steel Valves and Wetted Parts
- MSN Features High Pressure ASI Stainless Valves
- Forged Steel Connecting Rods
- Pump Body in Cast Iron

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 2-1/2" BSP-F
- Discharge Port Thread: ..... 1-1/4" BSP-F
- Shaft Diameter: ..... 1.969"/50 mm
- Stroke: ..... 2.362"/60 mm
- Pump Dimensions: ..... 27.8" x 23.8" x 12.1"
- Crankcase Oil Capacity: ..... 338 oz. (10 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... .650 lbs./750 kg

## Product Group: V

\*Please consult technical guide or GP Sales Representative for Temperature/Inlet Pressure Information.



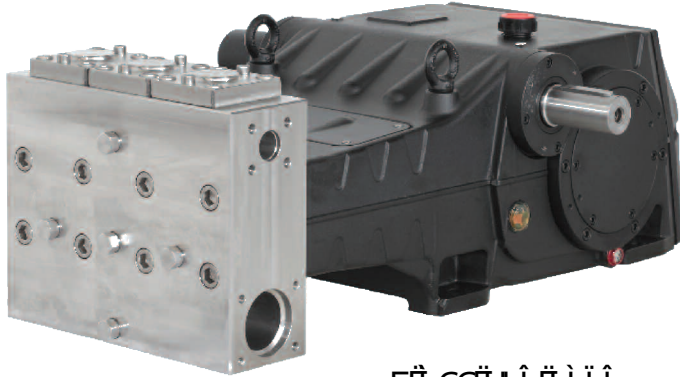
Note: All models come standard with crankshaft on right side (when facing manifold).

MODEL	GPM/LPM	PSI/BAR	BORE	EBHP
MSN36	35.4 GPM/134 LPM	4350 PSI/300 BAR	1.417 in./36 mm	105
MSN40	43.9 GPM/166 LPM	3500 PSI/241 BAR	1.575 in./40 mm	105
MSN45	55.5 GPM/210 LPM	2750 PSI/190 BAR	1.772 in./45 mm	104
MSN50	68.7 GPM/260 LPM	2250 PSI/155 BAR	1.969 in./50 mm	106
MSN55	83.0 GPM/314 LPM	1800 PSI/124 BAR	2.165 in./55 mm	102
MODEL	GPM/LPM	PSI/BAR	BORE	EBHP
MSZ45	55.5 GPM/210 LPM	1160 PSI/80 BAR	1.772 in./45 mm	37
MSZ50	68.7 GPM/260 LPM	1160 PSI/80 BAR	1.969 in./50 mm	46
MSZ55	83.0 GPM/314 LPM	1160 PSI/80 BAR	2.165 in./55 mm	55

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# LHN/ LHZ SERIES

# AGGRESSIVE ENVIRONMENT PUMPS

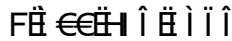


## FEATURES

- High Pressure Triplex Plunger Pump with internal gear reduction
- Self-adjusting Double Roller Bearings
- Rated for Continuous Duty
- Optional Drain/Priming Valve
- LHZ features 316 Stainless Steel wetted parts including valve plate and seat
- LHN features 316 Stainless Steel wetted parts with 431 Stainless Steel valve plate and seat

## MATERIALS

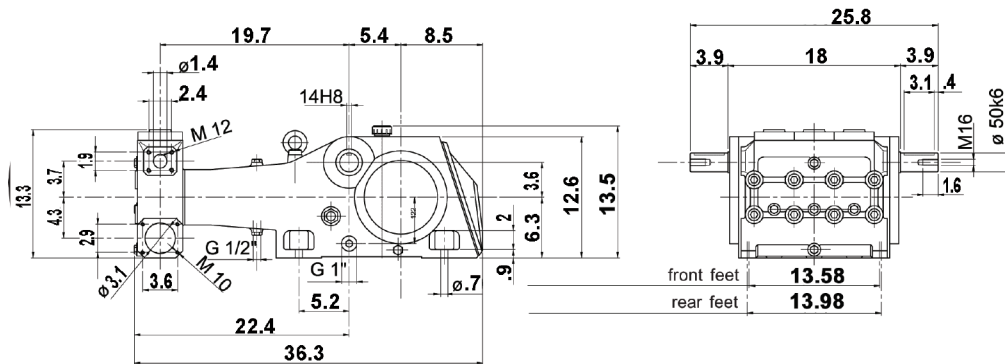
- Manifold in Duplex F51
- Plungers are Solid Ceramic
- 316 Stainless Steel Valves and Wetted Parts
- LHN Features High Pressure ASI Stainless Valves
- Forged Steel Connecting Rods
- Pump Body in Cast Iron



## Product Group: V

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 45 PSI
- Maximum Fluid Temperature: ..... \*140° F
- Inlet Port Thread: ..... 3" BSP-F Flange
- Discharge Port Thread: ..... 1-1/4" BSP-F Flange
- Shaft Diameter: ..... 1.969"/50 mm
- Stroke: ..... 3.546"/90 mm
- Pump Dimensions: ..... 36.3" x 25.8" x 13.57"
- Crankcase Oil Capacity: ..... 473.4 oz. (14 liters)  
..... (use GP Series 220 Oil-see page 57)
- Shipping Weight: ..... 850 lbs./386 kg



Note: All models come standard with crankshaft on right side (when facing manifold), specify "L" when ordering left hand version.

MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
LHN4015	45.4 GPM/172 LPM	4350 PSI/300 BAR	1500 RPM	1.575 in./40 mm	136
LHN4017	49.7 GPM/188 LPM	4350 PSI/300 BAR	1750 RPM	1.575 in./40 mm	148
LHN4515	57.6 GPM/218 LPM	3500 PSI/241 BAR	1500 RPM	1.772 in./45 mm	138
LHN4517	62.9 GPM/238 LPM	3500 PSI/241 BAR	1750 RPM	1.772 in./45 mm	151
LHN5015	71.1 GPM/269 LPM	2900 PSI/200 BAR	1500 RPM	1.969 in./50 mm	142
LHN5017	77.4 GPM/293 LPM	2900 PSI/200 BAR	1750 RPM	1.969 in./50 mm	154
LHN5515	86.1 GPM/326 LPM	2300 PSI/159 BAR	1500 RPM	2.165 in./55 mm	136
LHN5517	93.8 GPM/355 LPM	2300 PSI/159 BAR	1750 RPM	2.165 in./55 mm	148
LHN6015	102.0 GPM/386 LPM	2050 PSI/141 BAR	1500 RPM	2.362 in./60 mm	144
LHN6017	112.0 GPM/424 LPM	2050 PSI/141 BAR	1750 RPM	2.362 in./60 mm	158
MODEL	GPM/LPM	PSI/BAR	RPM	BORE	EBHP
LHZ5015	71.1 GPM/269 LPM	1160 PSI/80 BAR	1500 RPM	1.969 in./50 mm	49
LHZ5017	77.4 GPM/293 LPM	1160 PSI/80 BAR	1750 RPM	1.969 in./50 mm	57
LHZ5515	86.1 GPM/326 LPM	1160 PSI/80 BAR	1500 RPM	2.165 in./55 mm	59
LHZ5517	93.8 GPM/355 LPM	1160 PSI/80 BAR	1750 RPM	2.165 in./55 mm	69
LHZ6015	102.0 GPM/386 LPM	1160 PSI/80 BAR	1500 RPM	2.362 in./60 mm	71
LHZ6017	112.0 GPM/424 LPM	1160 PSI/80 BAR	1750 RPM	2.362 in./60 mm	83

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# VEHICLE CLEANING PUMPS

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## Emperor Pumps

Emperor HTS, 47HT Series, Triplex plunger pump features exclusive HT technology. Specifically designed to handle the rigorous duty cycles, high temperatures and chemicals associated with self-service car wash applications. Also ideal for use in carpet cleaning and other high pressure cleaning applications.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm Pump Dimensions: 12.2" x 9.2" x 6.9" 12.4" x 10" x 6.9" (with rails) Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg) Crankcase Oil Capacity: 40.6 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTS2210S	2.6/4.0	2300	950/1450	.866 in/22 mm	.394 in/10 mm	4.1/6.3	32 lbs.
HTS2212S	3.2/4.75	2300	950/1450	.866 in/22 mm	.472 in/12 mm	5/7.5	32 lbs.
HTS2215S	4.0/5.0	2300	950/1200	.866 in/22 mm	.591 in/15 mm	4.1/7.8	32 lbs.



**HTS2210S**

Emperor HTX, 63HT Series, Triplex plunger pump features exclusive HT technology. Specifically designed to handle the rigorous duty cycles, high temperatures and chemicals associated with self-service car wash applications. Also ideal for use in carpet cleaning and other high pressure cleaning applications. This pump offers a compact and economical design.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1/2" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm Pump Dimensions: 8.4" x 8.3" x 4.8" 8.4" x 8.3" x 5.6" (with rails) Max. Inlet Vacuum: 3 ft. water (2.9 in. Hg) Crankcase Oil Capacity: 14 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTX1810S	2.7/3.1	2000	1450/1750	.709 in./18 mm	.394 in./10 mm	3.5/4.2	18 lbs.
HTX1812S	3.2/3.8	2000	1450/1750	.709 in./18 mm	.472 in/12 mm	4.3/5.2	18 lbs.
HTX1813S	3.5	2500	1450	.709 in./18 mm	.512 in/13 mm	6	18 lbs.

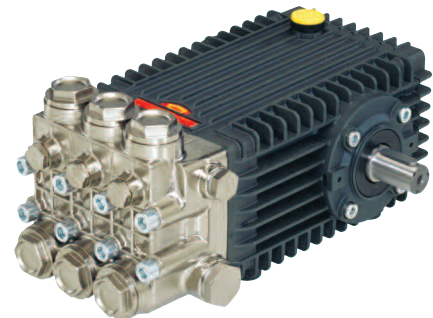


**HTX1810S**

Emperor HTF, 66HT Series, Triplex plunger pump features exclusive HT technology. Designed for use in prep units, conveyor and multiple gun applications. Excellent for carpet cleaning and for use in industrial plant systems where hot water is required.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 3/4" - 14 BSP-F Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm Pump Dimensions: 13.27" x 9.6" x 6.23" 13.4" x 9.8" x 7.5" (with rails) Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg) Crankcase Oil Capacity: 31 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTF2018S	4.0/5.0/7.5	3600	950/1200/1750	.787 in/20 mm	.748 in/18 mm	10/12/18.5	41 lbs.
HTF2221S	8.5/10.2	3000	1450/1750	.866 in/22 mm	.826 in/21 mm	17.5/21	41 lbs.
HTF2421S	10.0/12.0	3000/2500	1450/1750	.945 in/24 mm	.826 in/21 mm	20.5	41 lbs.



**HTF2018S**

Emperor HTW, 69HT Series, Triplex plunger pump features exclusive HT technology. Designed for touchless car wash systems, multiple gun systems and industrial plant systems where hot water is required.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 185° F Inlet Port Thread: 1" - 11 BSP-F Discharge Port Thread: 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm Pump Dimensions: 13" x 11.9" x 7.3" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg) Crankcase Oil Capacity: 50.7 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
HTW3624S	18.0	1200	1000	1.417 in/36 mm	.945 in/24 mm	19.5	57 lbs.



**HTW3624S**

# VEHICLE CLEANING PUMPS EMPEROR HTCK SERIES



**HTCK3623S  
70 Series**

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**HTCK4050S  
71 Series**

## FEATURES

- Features patent-pending "high tech" packings
- Solid ceramic plungers
- Patent-pending inlet/outlet valve cage
- Nickel-plated forged brass manifold with an exclusive lifetime warranty
- Heavy-duty taper roller bearings
- Specifically designed to handle rigorous duty cycles, high temperatures and chemicals
- Ideal for use in car wash and other high pressure cleaning applications

## COMMON SPECIFICATIONS

- Maximum Inlet Pressure: ..... 125 PSI
- Maximum Fluid Temperature: ..... 185° F
- Inlet Port Thread: ..... 1" NPT-F (HTCK3623S)  
..... 1-1/2" NPT-F (HTCK4050S)
- Discharge Port Thread: ..... 1/2" NPT-F (HTCK3623S)  
..... 1" NPT-F (HTCK4050S)
- Shaft Diameter: ..... 1.181"/30 mm (HTCK3623S)  
..... 1.575"/40 mm (HTCK4050S)
- Maximum Inlet Vacuum: ..... 3 ft. Water (2.6" Hg)
- Pump Dimensions: ..... 15.3" x 13.4" x 7.7" (HTCK3623S)  
..... 20.7" x 14.5" x 9.9" (HTCK4050S)
- Crankcase Oil Capacity: 64.2 oz. (1.90 liters) (HTCK3623S)  
..... 124.4 oz. (3.68 liters) (HTCK4050S)  
..... (use GP Series 220 Oil-see page 57)

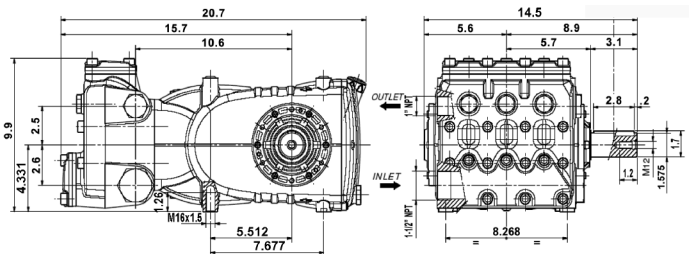
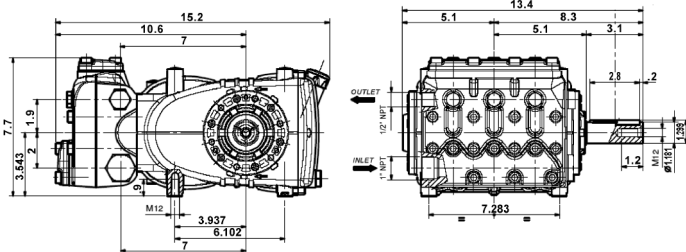
## MATERIALS

- High resistance light alloy crankcase
- Nickel-plated forged brass manifold
- Taper roller bearings
- Special antifriction light alloy connecting rods
- Forged alloy steel crankshaft, hardened, tempered and nitrided
- Cast iron piston guide, nickel treated
- Solid ceramic plungers
- Stainless steel valves

## Product Group: X

**HTCK3623S**

**HTCK4050S**



MODEL	GPM/LPM	PSI/BAR	BORE	STROKE	HP	WEIGHT
HTCK3623S	21.0 GPM/79.4 LPM 25.0 GPM/94.6 LPM	1500 PSI/103 BAR 1300 PSI/89.6 BAR	1.4 in./36 mm	.9 in./23 mm	22	79.6 lbs.
HT125 RCK	Pump Rails					
HTCK4050S	36.0 GPM/136.2 LPM	1500 PSI/103 BAR	1.6 in./40 mm	1.9 in./50 mm	38	157 lbs.
HT150 RCK ZUH40	Pump Rails Universal Hub, 40 mm					

Please refer to pages 42-45 for fittings, safety devices and other accessories. Performances refer to theoretical delivery with 100% volumetric efficiency. Under normal operating conditions, pump volumetric efficiency is over 95%. Please contact our technical staff in case of continuous, heavy-duty, or special applications.

# VEHICLE CLEANING PUMPS

## Vehicle Cleaning Pumps

Car Wash Series 47 Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. The preferred pump frame in the car wash self-service industry. Solid ceramic plungers with continuously lubricated packings.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1/2" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: .945 in./24 mm (dual shaft)**  
**Pump Dimensions: 11.4" x 10.8" x 6.9" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 33.8 oz. Use GP Series 100 Oil, (see page 57) Product Group: X**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW2004	4.0 GPM	2000 PSI	1750 RPM	.787 in./20 mm	.394 in./10 mm	5.5 EBHP	30.0 lbs.
CW2040	5.0 GPM	2500 PSI	1250 RPM	.787 in./20 mm	.630 in./16 mm	8.6 EBHP	30.0 lbs.
CW24	5.0 GPM	2500 PSI	1250 RPM	.787 in./20 mm	.630 in./16 mm	8.6 EBHP	30.0 lbs.
CW3040	5.0 GPM	3000 PSI	1250 RPM	.787 in./20 mm	.630 in./16 mm	10.3 EBHP	32.0 lbs.

- 190237 CW2040 Pump and Retrofit Rail and 24 MM H Bushing for Cat 310 Replacement
- 190238 CW2040 Pump and Retrofit Rail and 8" OD Pulley for Cat 310 Replacement
- 190239 CW3040 Pump and Retrofit Rail for Cat 530 Replacement
- 190245 CW3040L Pump and Retrofit Rail and H Bushing for Cat 530 Replacement

Car Wash Series 69 Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. The preferred pump frame in the two-gun prep conveyor and tunnel car wash industry. Solid ceramic plungers with continuously lubricated packings.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 3/4" - 14 BSP-F**  
**Discharge Port Thread: 3/8" - 19 BSP-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 13.0" x 11.9" x 7.3" Crankcase Oil Capacity: 50.7 oz. Use GP Series 8090 Oil, (see page 57) Max. Inlet Vacuum: 2 ft. water (1.8 in. Hg) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW1012	10.0 GPM	1200 PSI	750 RPM	1.18 in./30 mm	.946 in./24 mm	8.2 EBHP	45.0 lbs.
CW1012	12.0 GPM	1000 PSI	900 RPM	1.18 in./30 mm	.946 in./24 mm	8.2 EBHP	45.0 lbs.

Car Wash Series 76 Triplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Oversized bronze connecting rods for maximum life. Solid ceramic plungers with continuously lubricated packings.

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: 1" - 11 BSP-F**  
**Discharge Port Thread: 3/4" - 14 BSP-F Shaft Diameter: 1.378 in./35 mm**  
**Pump Dimensions: 15.6" x 14.0" x 9.5" Max. Inlet Vacuum: 9 ft. water (7.9 in. Hg)**  
**Crankcase Oil Capacity: 91.0 oz. Use GP Series 8090 Oil, (see page 57) Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW61	17.0 GPM	1200 PSI	1000 RPM	1.417 in./36 mm	.945 in./24 mm	14.0 EBHP	92.0 lbs.
CW81	21.0 GPM	1200 PSI	1000 RPM	1.417 in./36 mm	1.102 in./28 mm	17.3 EBHP	92.0 lbs.

Car Wash Series 77 Sixplex Plunger Pump – Forged brass manifold with an exclusive lifetime warranty. Most widely used pump frame in the touchless car wash industry. Dual manifolds utilizing a common crankcase for efficient performance. (Recommend Series 80/90 Oil, part number 100734.)

**Max. Inlet Pressure: 125 PSI Max. Fluid Temperature: 165° F Inlet Port Thread: Dual 1" - 11 NPT-F**  
**Discharge Port Thread: Dual 3/4" - 14 NPT-F Shaft Diameter: 1.378 in./35 mm**  
**Crankcase Oil Capacity: 2 quarts Use GP Series 8090 Oil, (see page 57)**  
**Pump Dimensions: 22.1" x 14.0" x 9.7" Max. Inlet Required: Flooded Product Group: Y**

	GPM	PSI	RPM	BORE	STROKE	HP	SHP WGHT
CW1541	41.0 GPM	1200 PSI	1000 RPM	1.417 in./36 mm	1.102 in./28 mm	33.7 EBHP	156 lbs.



CW2040



CW1012



CW61



CW1541

See pages 50-54 for Vehicle Cleaning Accessories.

All car wash pumps are covered under warranty for damage caused by fresh water wash out for the life of the pump.

