

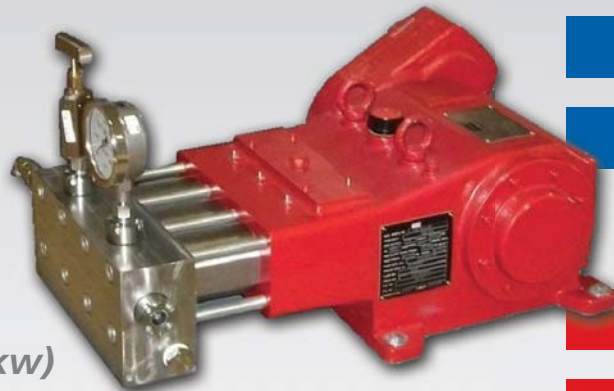
**KMT Aqua-Dyne Pumps Are Used Worldwide For These Water Blasting Applications:**

- Marine - Ship/Dock Cleaning
- Oilfield - Hydrostatic Testing & Pipe Cleaning
- Mining - Unclog Machinery
- Automotive - Paint Booth Cleaning
- Aviation - Clean Fluids on Runways
- Power Station - Nuclear Decontamination

**...and MUCH MORE!**

# KMT Aqua-Dyne Bare Shaft Pumps Series 100

*(Power Ratings: 50-100 HP/37-75 kw)*



**For Maximum Water Blasting Productivity**

## KMT Aqua-Dyne Bare Shaft Pumps *The POWER Inside Every PUMPING UNIT!*

The key to KMT Aqua-Dyne's long pump life and hundreds of hours of trouble-free operation are low load packing, special filtration, a closed loop non-drip cooling and water lubrication system for alumina ceramic or tungsten carbide plungers.

The individual lightweight suction and discharge manifolds are easily removed for routine maintenance, and field changing the packing or plungers takes five minutes with no special tools required.

### Unique VALVE-IN-LINE Fluid End

- Unique VALVE-IN-LINE Fluid End Design Provides Higher Volumetric Efficiency For Increased Productivity & Lower Operating Costs.
- Superior Design Of The Fluid End Delivers Up To 15% Increase In Productivity, higher volumetric efficiency, lower maintenance, quick packing changes and low initial cost over conventional fluid ends available.

### Fluid End

**Fluid Cylinders** – Stainless steel is standard, other materials available to suit application.

**Valve & Seats** – High strength stainless steel in-line valve system. All valves may be reconditioned by surface grinding.

**Plungers** – Non-scoring, high alumina ceramic or optional colmonoy coated steel.

**Packing** – V-Rings of advanced polymer material are self adjusting, giving long service when used with non-scoring ceramic plungers.

**Lubrication** – Plungers and packing are pressure lubricated by fluid from suction manifolds. Optional oil lubrications are available.

**Manifolds** – Individual light weight suction and discharge manifolds are easily removable for simple maintenance. Different materials are available to suit applications.

### Power End

**Power Frame** – High strength alloy cast iron casting.

**Crankshaft** – Hardened and tempered alloy steel.

**Crankshaft Bearings** – Heavy duty taper roller bearings.

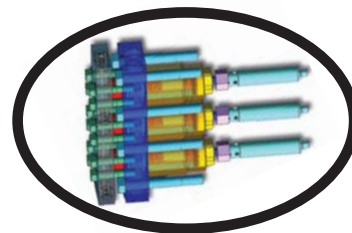
**Crossheads** – Cylindrical type high strength alloy castings. Crosshead wristpins are hardened & ground steel equipped with double roller bearings. Extension rods are highly polished stainless steel to eliminate corrosion and weepage.

**Connecting Rods** – Cast connecting rods with anti-friction bearing.

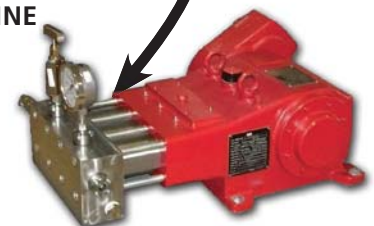
**Reduction Gear** – External 2.417:1 reduction ratio gear. Pinion shaft may extend from either side of pump.

**Lubrication** – Power end parts are splash lubricated by oil in crank case reservoir. Oil return channels in power frame permit constant circulation and help keep oil cool.

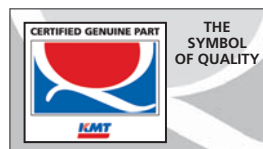
**Oil Wiper Seals** – Lip type wiper seals.



**Unique VALVE-IN-LINE Fluid End**



*\*Bare Shaft Pumps are available in Custom & Standard Pumping Unit Packages*



# SERIES 100 SPECIFICATIONS

Pressure & Volume are based on 100% Volumetric & Mechanical Efficiency.

<b>SERIES 100 PUMPS</b>									
FLUID END SERIES	PLUNGER DIAMETER INCHES (mm)	MAXIMUM PRESSURE PSI (bar)	FLOW AT HORSEPOWER - GAL/MIN. (LITER/MIN.)						
			50	60	70	80	90	100	
<b>VHP</b>	7/16 (11.11)	40,000 (2758)	1.88 (7.12)	2.25 (8.52)	2.63 (9.95)	3.00 (11.36)	3.38 (12.79)	3.75 (14.19)	
	1/2 (12.70)	34,989 (2412)	2.45 (9.27)	2.94 (11.13)	3.43 (12.98)	3.92 (14.84)	4.41 (16.70)	4.90 (18.55)	
	9/16 (14.29)	27,645 (1906)	3.10 (11.73)	3.72 (14.08)	4.34 (16.43)	4.96 (18.77)	5.58 (21.12)	6.20 (23.47)	
<b>HP</b>	5/8 (15.87)	22,393 (1544)	3.83 (14.50)	4.59 (17.37)	5.36 (20.29)	6.12 (23.17)	6.89 (26.08)	7.65 (28.96)	
	11/16 (17.46)	18,506 (1276)	4.63 (17.53)	5.56 (21.05)	6.48 (24.53)	7.41 (28.05)	8.34 (31.57)	9.26 (35.05)	
	3/4 (19.05)	15,550 (1072)	5.51 (20.86)	6.61 (25.02)	7.72 (29.22)	8.82 (33.39)	9.92 (37.55)	11.02 (41.71)	
	7/8 (22.22)	11,425 (788)	7.50 (28.39)	9.00 (34.07)	10.50 (39.75)	12.00 (45.42)	13.50 (51.10)	15.00 (56.78)	
<b>LP</b>	1 (25.4)	8,747 (603)	9.80 (37.10)	11.76 (44.52)	13.72 (51.93)	15.68 (59.35)	17.64 (66.77)	19.59 (74.16)	
	1-1/8 (28.57)	6,911 (476)	12.40 (46.94)	14.88 (56.33)	17.36 (65.71)	19.84 (75.10)	22.32 (84.49)	24.80 (93.88)	
	1-1/4 (31.75)	5,598 (386)	15.31 (57.95)	18.37 (69.54)	21.43 (81.12)	24.49 (92.70)	27.56 (104.32)	30.62 (115.91)	

Rated Power: Up to 100 (75 kw)

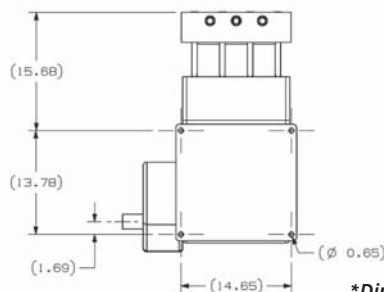
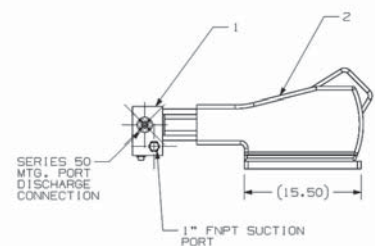
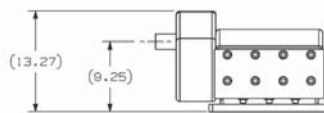
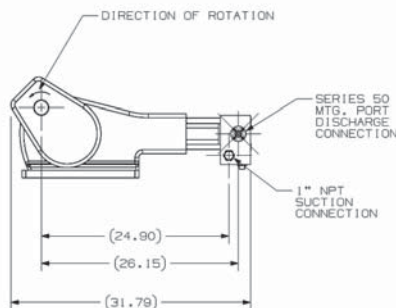
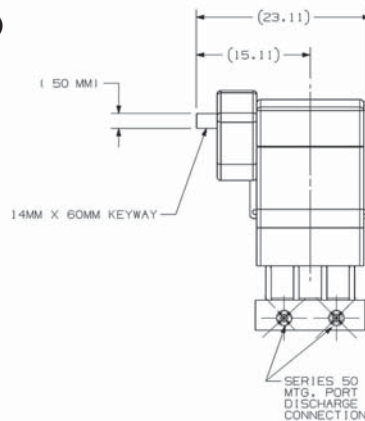
Number of Cylinders: 3

Plunger Stroke: 2.36" (60 mm)

Plunger Load: 6,700 Lbs (3039 kg)

Oil Capacity: 2.1 Quarts (1.99 L)

Pump Weight: 616 Lbs (279 kg)



\*Dimensions (in inches) may vary based on pump model



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