T80 Series Model T8030

Maximum Flow Rate: 26 gpm (98.4 l/min)

Maximum Pressure: 5000 psi (345 bar)



- Seal-less design eliminates leaks, hazards and the expense associated with seals and packing
- Low NPSH requirements allow for operation with a vacuum condition on the suction - positive suction pressure is not necessary
- Can operate with a closed or blocked suction line and run dry indefinitely without damage, eliminating downtime and repair costs
- Unique diaphragm design handles more abrasives with less wear than gear, screw or plunger pumps

- Hydraulically balanced diaphragms to handle high pressures with low stress
- Lower energy costs than centrifugal pumps
- Rugged construction for long life with minimal maintenance
- Compact design and double-ended shaft provide a variety of installation options

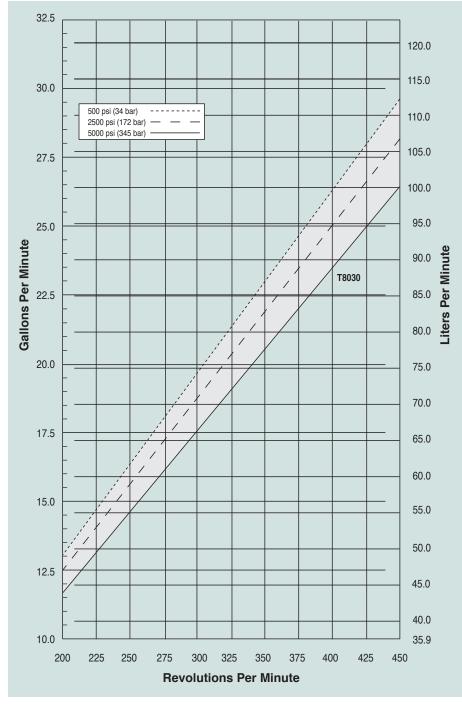


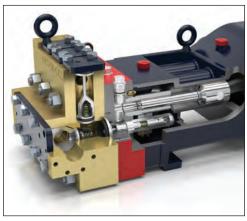
T80 Series Model T8030 Performance

Capacities

low	Max. Input	Max. Flow @ 5000 psi (345 bar)		Pressure Maximum Inlet Pressure
Model	rpm	gpm	l/min	500 psi (34 bar)
T8030	450	26.0	98.4 gpm (45.4 l/min).	Maximum Discharge Pressure 5000 psi (345 bar)

Maximum Flow at Designated Pressure





T Series pumps feature the Hydra-Cell seal-less design, eliminating clean-up costs from leaking seals or packing and protecting operators from dangerous fluids such as those containing hydrogen sulfide.

Due to Wanner Engineering continuous improvement practices, performance data and specifications may change without notice.



T80 Series Model T8030 Specifications

Flow Capacities @5000 psi (345 bar)							
Model	rpm	gpm	l/min				
T8030	450	26.0	98.4				
Delivery							
Pressure psi	(bar)	gal/rev	liters/rev				
500 (34)		0.066	0.249				
		0.000	V.=				
2500 (172)		0.063	0.237				

rpm

Maximum: 450

200 Consult factory for speeds less than 200 rpm Minimum:

Maximum Discharge Pressure

5000 psi (345 bar) Metallic Heads: Maximum Inlet Pressure 500 psi (34 bar)

Operating Temperature

Maximum: 180°F (82.2°C) 40°F (4.4°C) Minimum:

Consult factory for temperatures outside this range

Maximum Solids Size	800 microns
Input Shaft	Left or Right Side
Inlet Ports	2 inch Class 300 FF ANSI Flange
Discharge Ports	1-1/4 inch Class 2500 RJ ANSI Flange
Shaft Diameter	3 inch (76.2 mm)
Shaft Rotation	Reverse (bi-directional)
Oil Capacity	18 US quarts (17 liters)
	10W30 standard-duty oil

Weight

Metallic Heads: 1100 lbs. (499 kg)

Fluid End Materials

Manifold: Nickel Aluminum Bronze (NAB)

Diaphragm/Elastomers: FKM

Buna-N

316 Stainless Steel Diaphragm Follower Screw: Valve Spring Retainer: Polypropylene Check Valve Spring: Elgilov

Valve Disc/Seat: 17-4 Stainless Steel

Hastellov C

316 Stainless Steel **Outlet Valve Retainer:** Plug-Outlet Valve Port: 316 Stainless Steel Inlet Valve Retainer: 316 Stainless Steel

Power End Materials

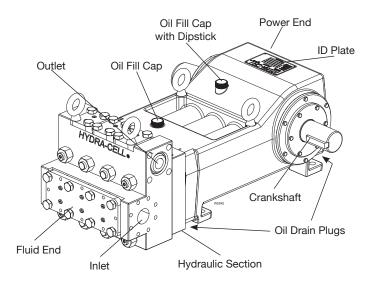
Crankshaft: Forged Q&T Alloy Steel

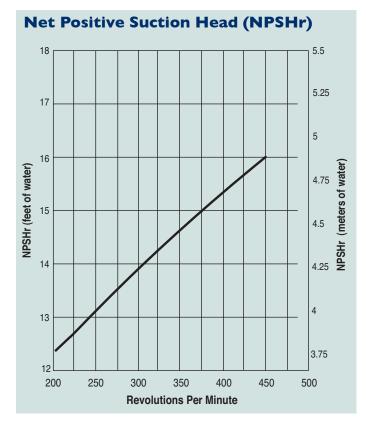
Connecting Rods: Ductile Iron Crossheads: 12L14 Steel Crankcase: Ductile Iron

Bearings: Spherical Roller/Journal (main)

Steel Backed Babbit (crankpin)

Bronze (wristpin)





Calculating Required Horsepower (kW)*

electric motor hp* 1.460

electric motor kW* 511

* hp (kW) is required application power.

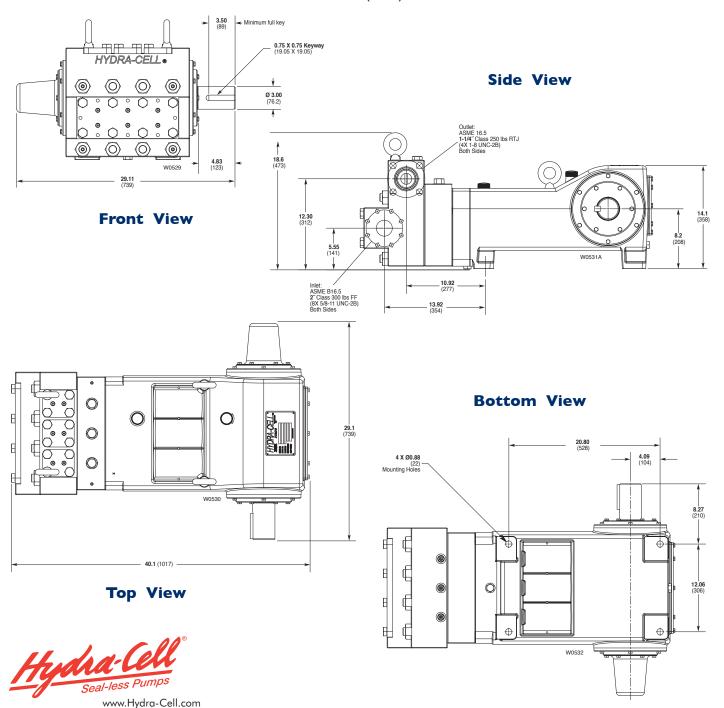
Attention!

When sizing motors with variable speed drives (VFD): It is very important to select a motor and a VFD rated for constant torque inverter duty service and that the motor is rated to meet the torque requirements of the pump throughout desired speed range.



T80 Series Model T8030 Dimensions

Model T8030 Threaded Version inches (mm)





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