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

Flow			
	Max. Input	Max. Flow @ 5000 psi (345 bar)	
Model	rpm	gpm	l/min
T8030	450	26.0	98.4

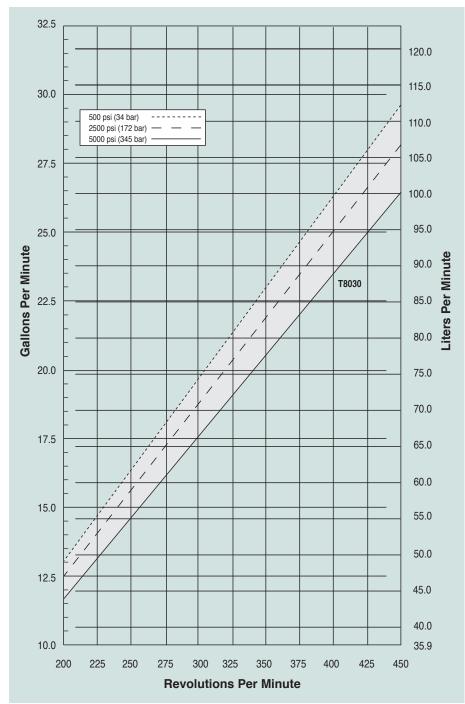
Consult factory when operating below 12 gpm (45.4 l/min).

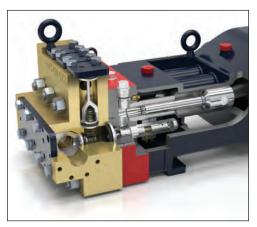
Pressure

Maximum Inlet Pressure 500 psi (34 bar)

Maximum Discharge Pressure 5000 psi (345 bar)

Maximum Flow at Designated Pressure





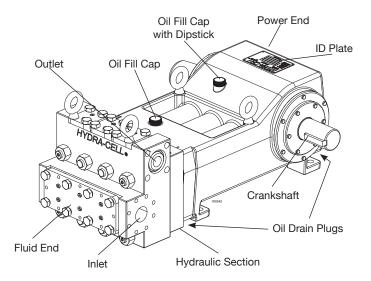
T Series pumps feature the Hydra-Cell seal-less design, eliminating clean-up costs from leaking seals or packing and protecting operators from dangerous fluids such as those containing hydrogen sulfide.

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

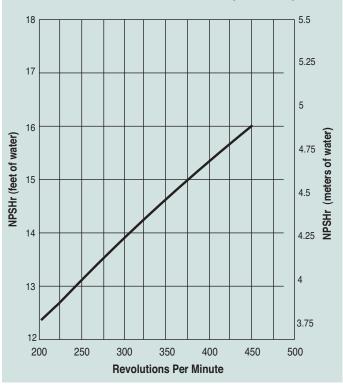


T80 Series Model T8030 Specifications

Flow Capacities 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
2500 (172)		0.063	0.237
5000 (343)		0.059	0.222
rpm			
Maximum:		450	
Minimum:			for speeds less than 200
Maximum Disch	arge Pres		
Metallic Heads:		5000 psi (345 bar)	
Maximum Inlet		500 psi (34 bar)	
Operating Temp	perature		
Maximum:		180°F (82.2°C)	
Minimum:		40°F (4.4°C)	
	<i>.</i>	atures outside this ra	nge
Maximum Solid	s Size	800 microns Left or Right Side	
Inlet Ports	let Ports		ANSI Flange
Discharge Ports		1-1/4 inch Class 25	00 RJ ANSI Flange
Shaft Diameter		3 inch (76.2 mm)	
Shaft Rotation		Reverse (bi-direction	
Oil Capacity		18 US quarts (17 lit	,
		10W30 standard-du	ity oil
Weight			
Metallic Heads:		1100 lbs. (499 kg)	
Fluid End Mater	rials		- ()
Manifold:		Nickel Aluminun	n Bronze (NAB)
Diaphragm/Elastomers:		FKM	
		Buna-N	
Diaphragm Follower Screw:			eel
Valve Spring Retainer:		Polypropylene	
Check Valve Spring:		Elgiloy	х. I
Valve Disc/Seat:		17-4 Stainless S	teel
	.	Hastelloy C	
Outlet Valve Retainer:		316 Stainless St	
Plug-Outlet Valve Port:		316 Stainless St	
Inlet Valve Re		316 Stainless St	eel
Power End Mate			
Crankshaft:		ged Q&T Alloy Steel	
Connecting Ro		tile Iron	
Crossheads:		14 Steel	
Crankcase:		tile Iron	
Bearings:		erical Roller/Journal	
		el Backed Babbit (cra	nkpin)
	Bro	nze (wristpin)	



Net Positive Suction Head (NPSHr)



Calculating Required Horsepower (kW)*

 $\frac{\text{gpm x psi}}{1,460} = \text{electric motor hp*}$ $\frac{\text{lpm x bar}}{511} = \text{electric motor kW*}$ * hp (kW) is required application power.

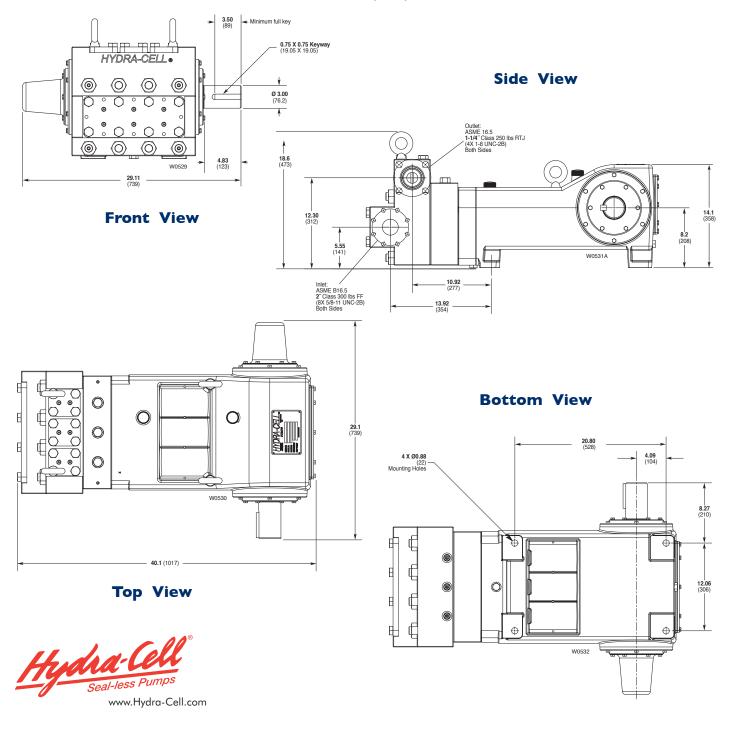
Attention!

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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