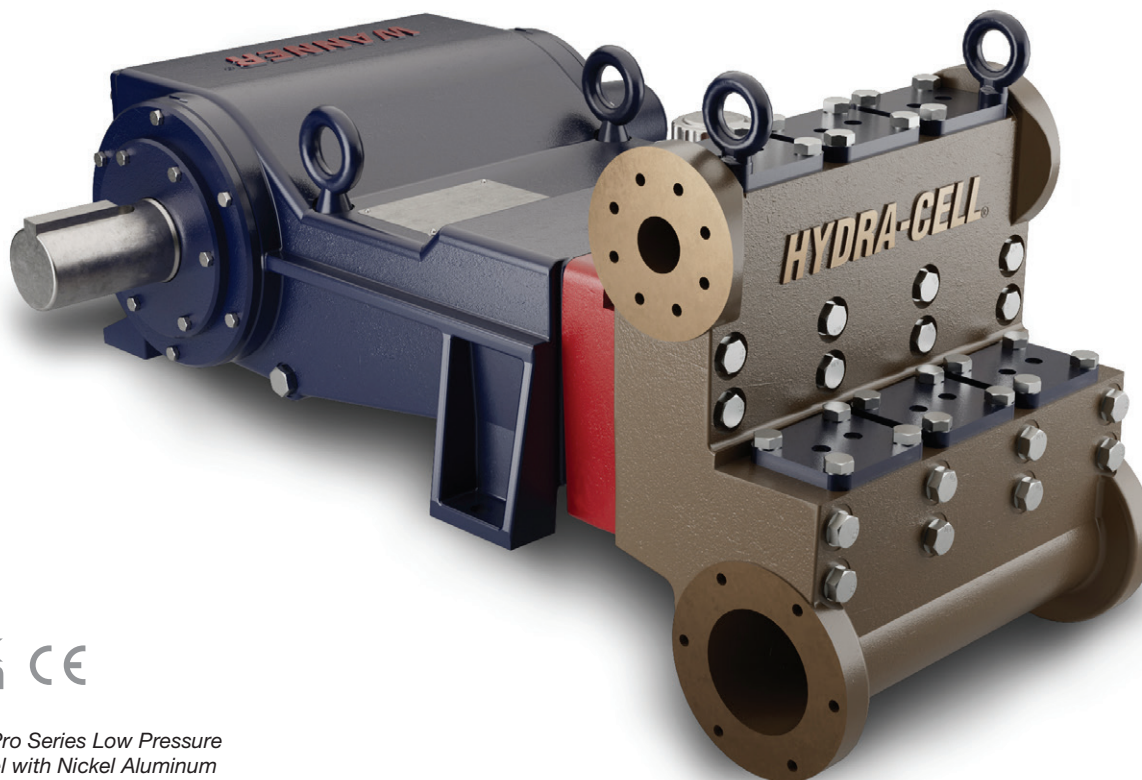


T60 PRO SERIES LOW PRESSURE

Maximum Flow Rate: 354 l/min (93 US gpm) 3209 BPD
Maximum Pressure: 69 bar (1000 psi)

WANNER™ HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES



AVAILABLE
TO MEET

API
674

UK
CA CE

*T60 Pro Series Low Pressure
model with Nickel Aluminum
Bronze (NAB) pump head.*

A higher standard of pump performance and energy efficiency.

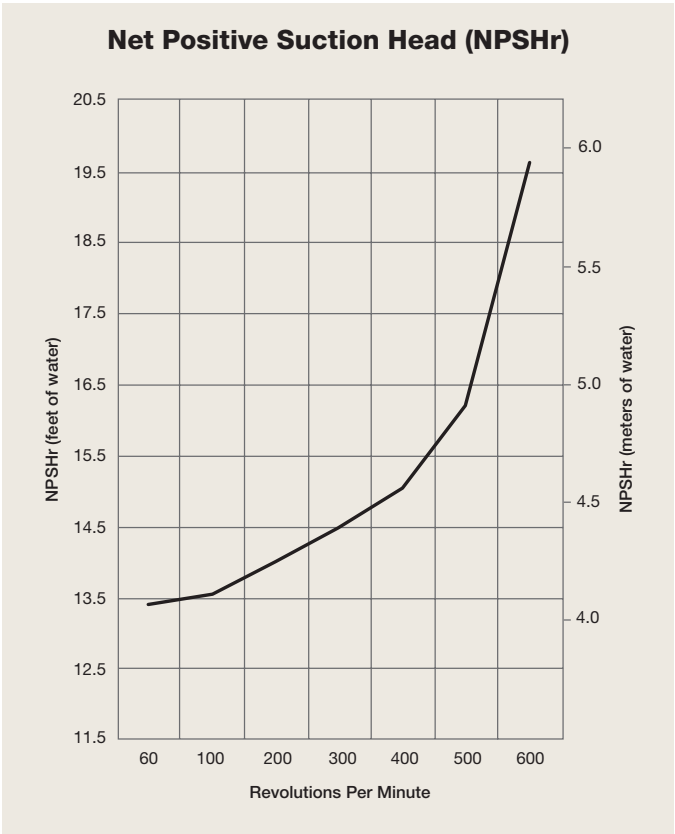
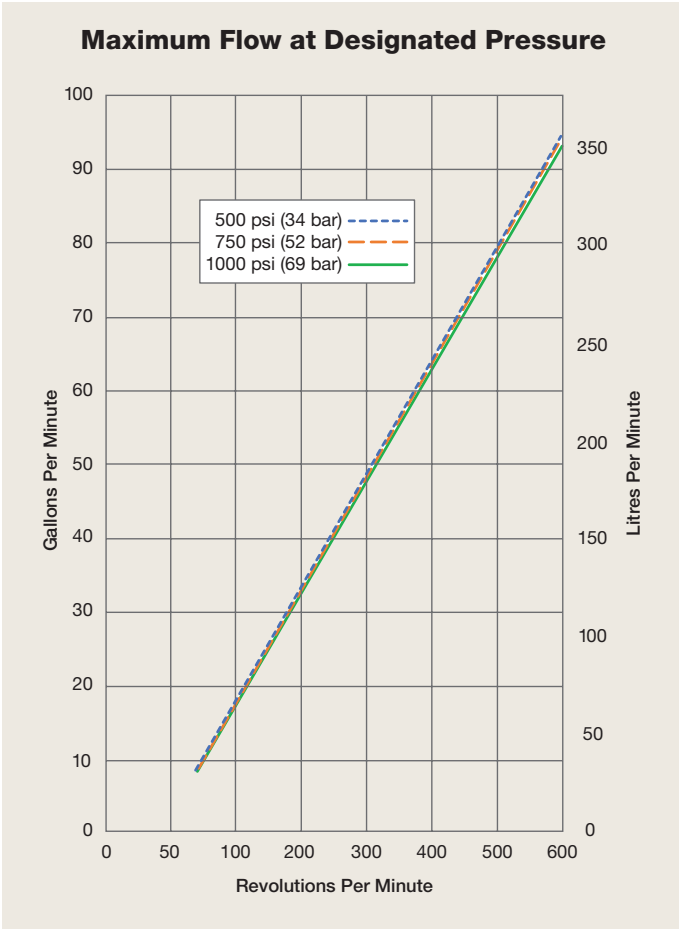
- Integrates **Wanner Hydra-Cell® Pro** seal-less pump technologies for the highest levels of volumetric and energy efficiencies across a full rpm range.
- Patented ADPC (Advanced Diaphragm Position Control) and hydraulic oil management systems protect diaphragms under closed or restricted inlet conditions.
- Can run dry indefinitely without damage to the pump, eliminating downtime and repair costs.
- Pumped liquid is 100% contained, eliminating environmental risks, ground contamination and volatile emissions.
- Seal-less design eliminates leaks, hazards and costs associated with seals and plunger packing.
- Exceeds API 675 standards for accuracy, linearity and repeatability.
- Wider range and higher inlet pressures to 34 barg.
- Self-priming – eliminates need for charge pumps.
- Unique diaphragm design reliably handles a wide range of viscosities and shear sensitivities, corrosive liquids, abrasives, slurries and suspended solids.
- Lower total cost of ownership in acquisition, operation, service, maintenance, and energy use.

T60 Pro Low Pressure | Performance

Capacities

Model	Max. Input rpm	Plunger Dia. mm inches		Max. Flow Capacities US gpm l/min BPD			Max. Pressure Ratings			
							Discharge		Inlet	
							bar	psi	bar	psi
T60C	600	58.42	2.3	93.6	354.2	3209	69	1000	34	500

Consult factory when operating below 45 rpm



Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

T60 Pro Low Pressure | Specifications

Flow Capacities

Model	Pressure bar (psi)	rpm	US gpm	l/min	BPD
T60C	69 (1000)	600	93.6	354.2	3209

Delivery

	Pressure bar (psi)	gal/rev	litres/rev
T60C	34 (500)	0.158	0.598
	69 (1000)	0.156	0.590

rpm

Maximum:	600
Minimum:	60

Consult factory for speeds less than 60 rpm.

Maximum Discharge Pressure

Metallic Heads:	69 bar (1000 psi)
-----------------	-------------------

Maximum Inlet Pressure

34 bar (500 psi)

Operating Temperature

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

Consult factory for temperatures outside of these ranges

Maximum Solids Size

800 microns

Input Shaft

Left or Right Side

Inlet Ports

Weld-On: 4 inch / SCH. 40
4 inch Class 300 RF ANSI Flange
4 inch NPT

Discharge Ports

Weld-On: 2 inch / SCH. 160
2 inch Class 2500 RTJ ANSI Flange
2 inch NPT

Plunger Stroke

76.2 mm (3 inch)

Shaft Diameter

76.2 mm (3 inch)

Shaft Rotation

Uni-directional (See rotation arrow.)

Oil Capacity

19.4 litres (20.5 US quarts)
- oil level back cover

See page 5 for oil selection and specification.

Weight

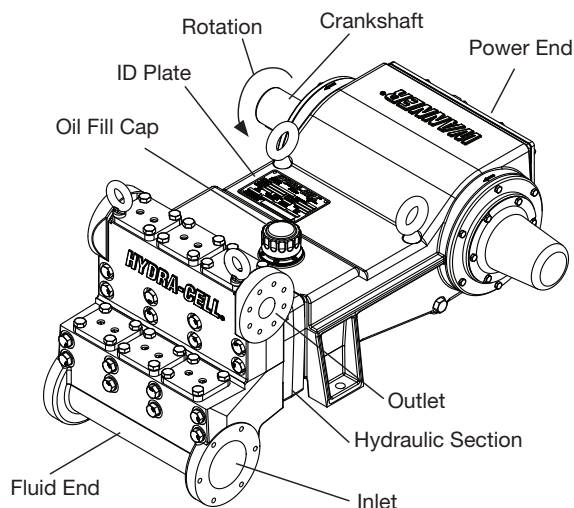
Metallic Heads:	396 kg (873 lbs.)
-----------------	-------------------

Fluid End Materials

Manifold:	Nickel Aluminum Bronze (NAB) 316L Stainless Steel CF3M
Diaphragm/Elastomers:	FKM Buna-N
Diaphragm Follower Screw:	316 Stainless Steel
Valve Spring Retainer:	316 SST
Check Valve Spring:	Elgiloy
Valve Disc/Seat:	7-4 Stainless Steel Nitronic 50

Power End Materials

Crankshaft:	Forged Q&T Alloy Steel
Connecting Rods:	Ductile Iron
Crossheads:	12L14 Steel
Crankcase:	Ductile Iron
Bearings:	Spherical Roller (main bearing) Steel Backed Babbitt (crankpin) Bronze (wristpin)



Calculating Required Horsepower (kW)*

$$\frac{\text{US gpm} \times \text{psi}}{1,460} = \text{electric motor hp}^*$$

$$\frac{\text{lpm} \times \text{bar}}{511} = \text{electric motor kW}^*$$

* hp (kW) is required application power.

Attention!

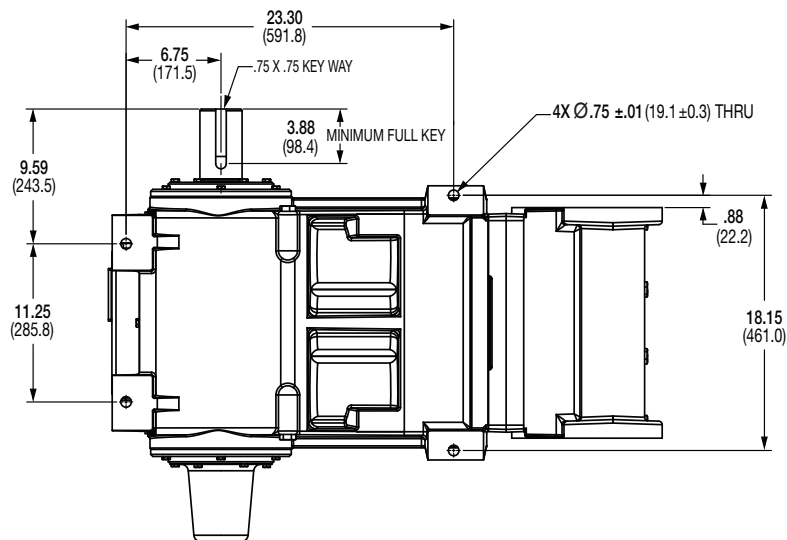
When sizing motors with variable speed drives (VFD): It is very important to select a motor and a VFD rated for constant torque inverter duty service and that the motor is rated to meet the torque requirements of the pump throughout desired speed range.

Due to the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

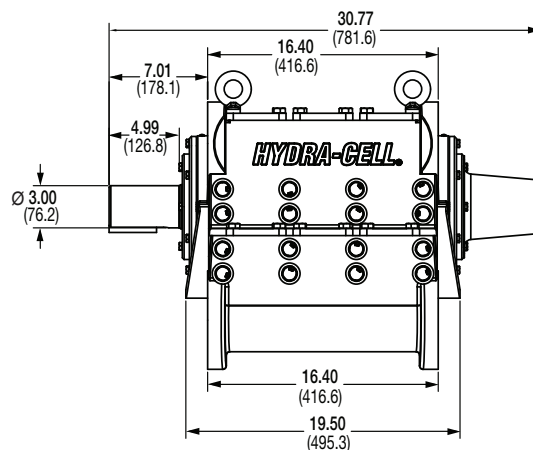
T60 Pro Low Pressure | Representative Drawings

Flanged Version inches (mm)

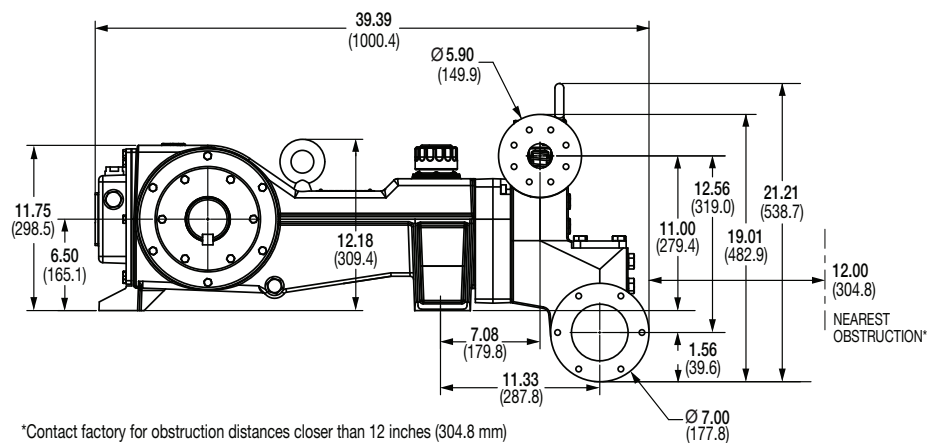
Bottom View



Front View



Side View



*Contact factory for obstruction distances closer than 12 inches (304.8 mm)

Note: Dimensions are for reference only. Contact Wanner International for certified drawings.

T60 Pro Low Pressure | How to Order

Ordering Information

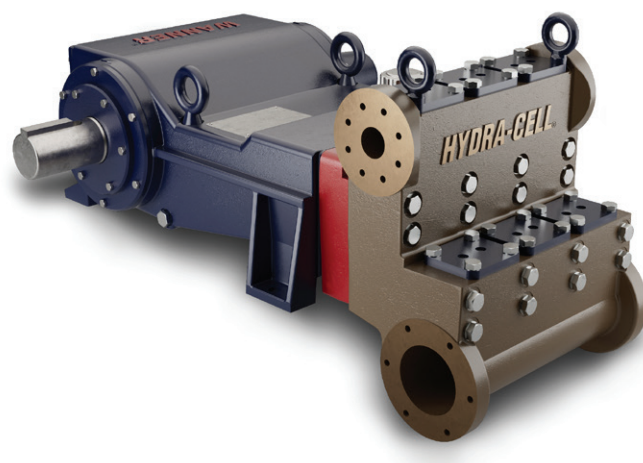
A complete T60 Pro Series Low Pressure Model Number contains 14 digits including 6 customer-specified design and materials options, for example: T060CADTHFESAC.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
T	0	6	0	C						E	S	A	

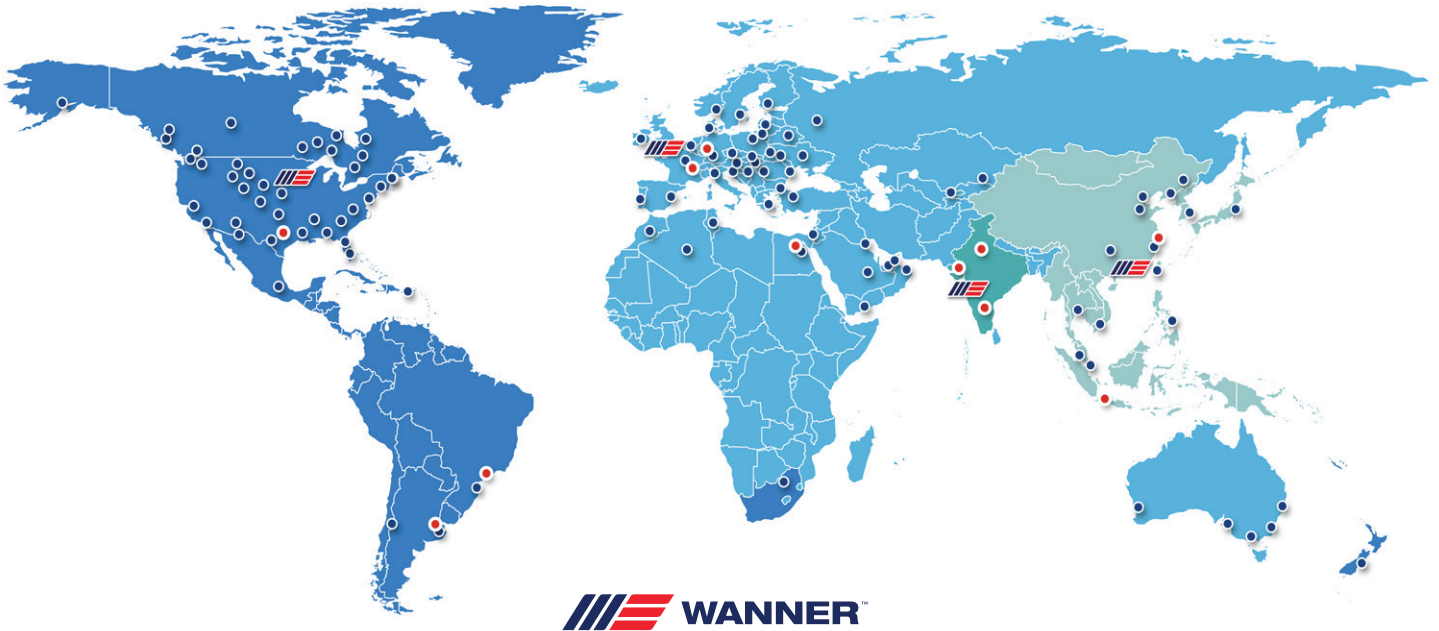
T60 Low Pressure

Digit	Order Code	Description
1-4	T060	Pump Configuration Shaft-driven
5	C	Performance Max. 354 l/min (93 US gpm) 3209 BPD @ 69 bar (1000 psi)
6	A C D G	Pump Head Version NPT Ports (Steel) Weld-Neck (Steel) Weld-Neck (316L Stainless Steel) ANSI Flanged Ports (Duplex Alloy 2205 Stainless Steel)
7	D S	Pump Head Material Nickel Aluminium Bronze (NAB) 316L Stainless Steel
8	G T	Diaphragm & O-ring Material FKM Buna-N
9	H N	Valve Seat Material 17-4 Stainless Steel Nitronic 50
10	F N	Valve Material 17-4 Stainless Steel Nitronic 50
11	E	Valve Springs Elgiloy
12	S	Valve Spring Retainers 316 SST

Digit	Order Code	Description
13	A	Hydra-Oil 10W30 standard-duty oil
14	C O	Oil Level Monitoring Float Switch, normally closed (recommended) Float Switch, normally open



Partners in over 70 countries



Global Sales and Technical Support

Americas

- Minneapolis, Minnesota USA
- Wichita Falls, Texas USA
- São Paulo, Brazil
- Buenos Aires, Argentina

EMEA | Australia

- Hampshire, United Kingdom
- Cairo, Egypt
- Düsseldorf, Germany
- Lyon, France

Asia | Pacific

- Kowloon, Hong Kong
- Shanghai, China
- Jakarta, Indonesia

India

- Mumbai, India
- New Delhi
- Bangalore
- Gujarat

Wanner worldwide

GLOBAL SALES & TECHNICAL SUPPORT

WANNER ENGINEERING, INC.

WORLD HEADQUARTERS &
MANUFACTURING

Minneapolis, Minnesota USA
t: 612-332-5681
e: sales@wannereng.com
Hydra-Cell.com

REGIONAL OFFICE

Wichita Falls, Texas USA
t: 940-322-7111
e: sales@wannereng.com

LATIN AMERICAN OFFICE

São Paulo, Brazil
t: +55 (11) 99582-1969
e: mmagoni@wannereng.com
Hydra-Cell-Pumps.com.br

WANNER INTERNATIONAL, LTD.

UNITED KINGDOM

Church Crookham,
Hampshire UK GU52 8BF
t: +44 (0) 1252 816847
e: support@wannerint.com
Hydra-Cell.co.uk

WANNER PUMPS, LTD.

Kowloon, HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com
WannerPumps.com

Shanghai, CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com
WannerPumps.com

WANNER INDIA PVT. LTD.

Mumbai, INDIA
t: +91 (22) 22044766
e: support@wannerindia.com
WannerIndia.com

