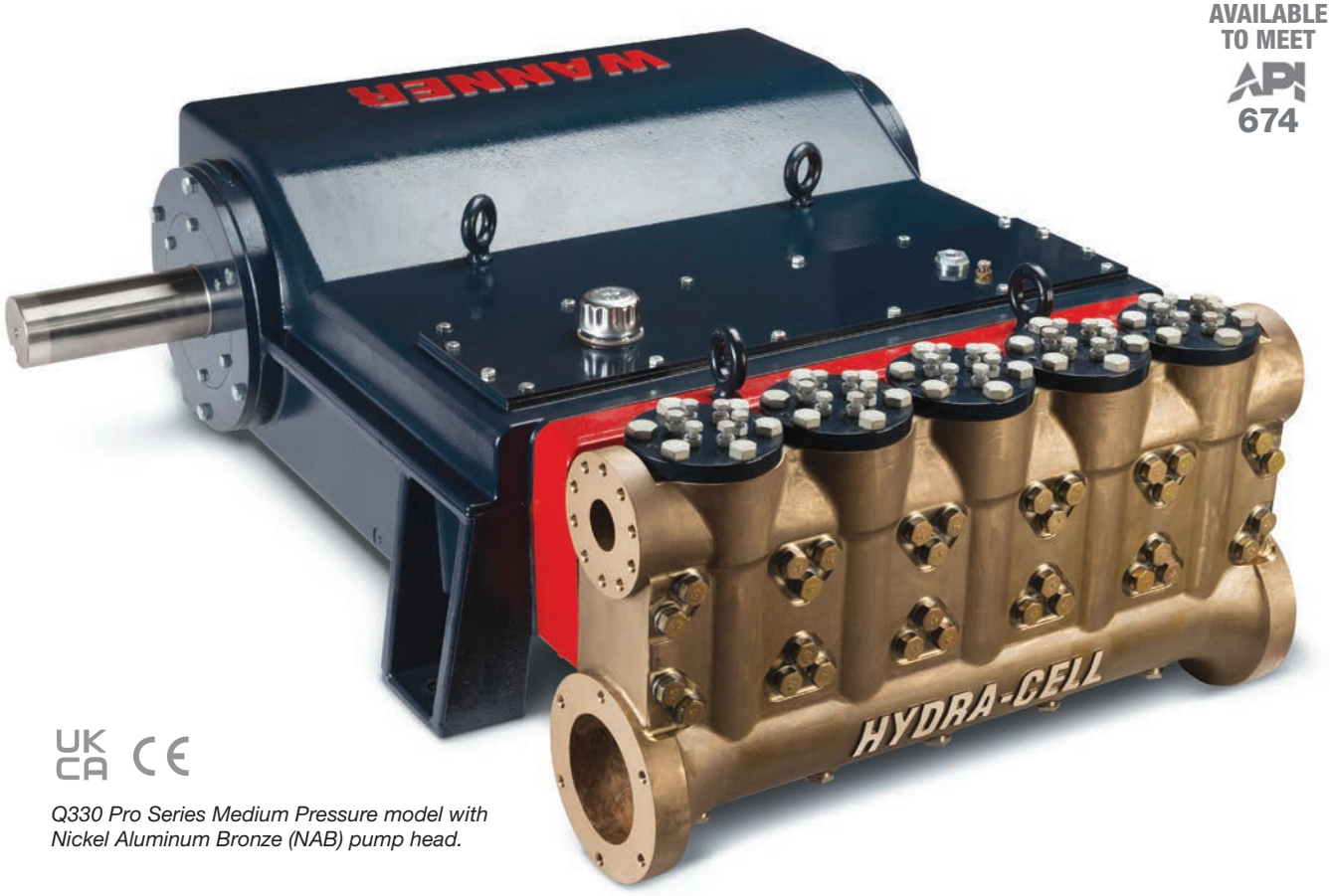
Q330 PRO SERIES
MEDIUM PRESSURE

Maximum Flow Rate: 153 gpm (579 l/min) 5247 BPD
Maximum Pressure: 3500 psi (241 bar)

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

AVAILABLE TO MEET API 674



Q330 Pro Series Medium Pressure model with Nickel Aluminum Bronze (NAB) pump head.

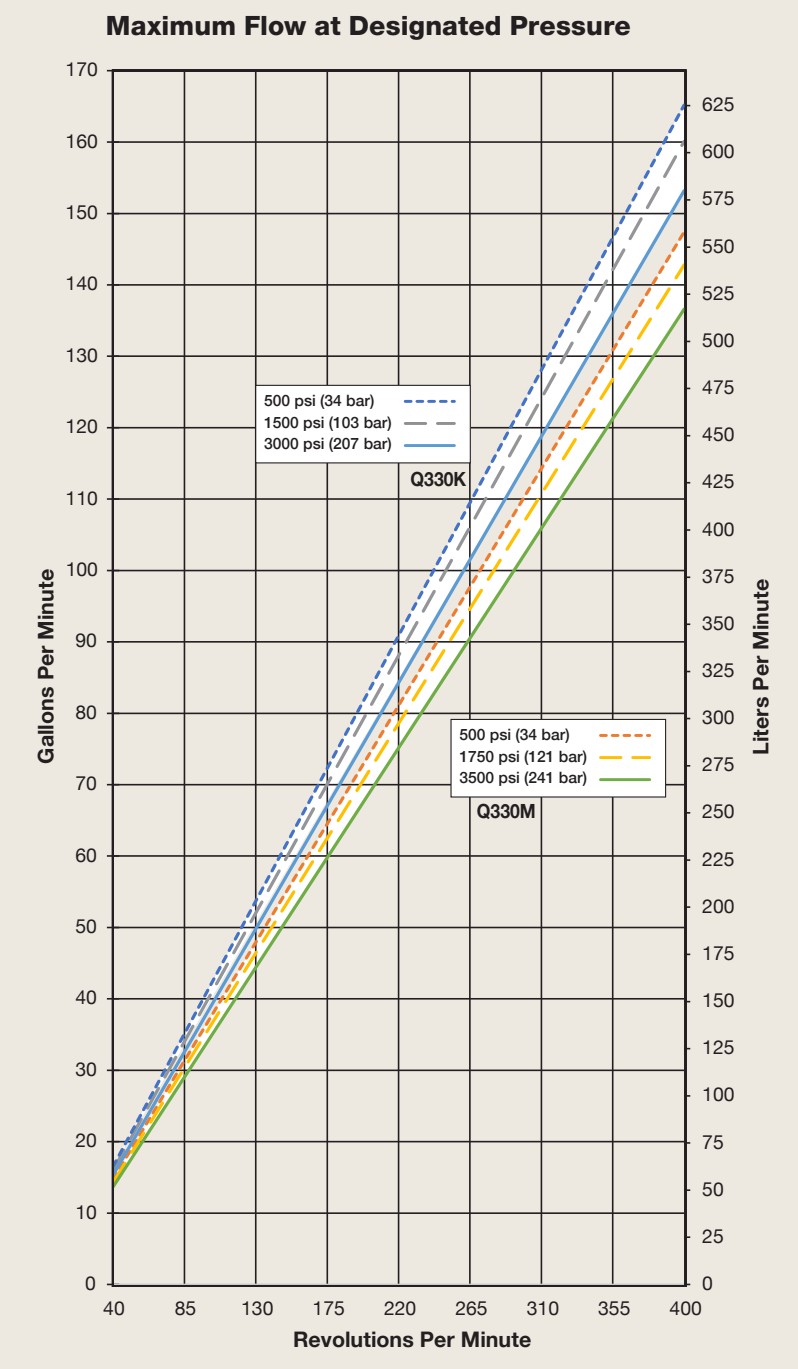
A higher standard of pump performance and energy efficiency.

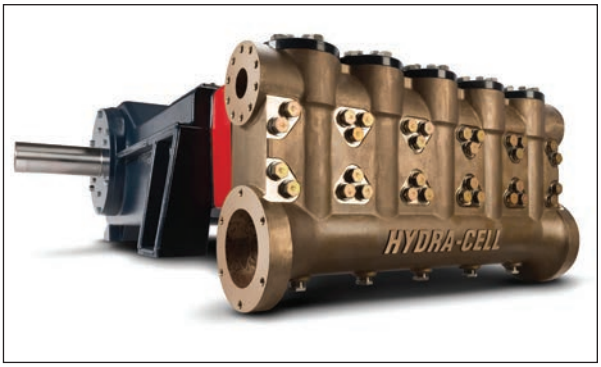
- Integrates **Wanner Hydra-Cell® Pro** seal-less pump technologies for the highest levels of volumetric and energy efficiencies across a full rpm range.
- Patented ADPC (Advanced Diaphragm Position Control) and hydraulic oil management system protect diaphragms under closed or restricted inlet conditions.
- Can run dry indefinitely without damage to the pump.
- Pumped fluid is 100% contained – zero environmental impact, no ground contamination, no volatile emissions.
- Seal-less design eliminates leaks, hazards, and the expense associated with seals and plunger packing.
- Exceeds API 675 standards for accuracy, linearity, and repeatability.
- Reliably handles a wide range of viscosities and shear sensitivities, corrosive fluids, abrasives, slurries and particulates.
- Reduced ownership costs – acquisition, operation, service, maintenance and energy use.

Capacities

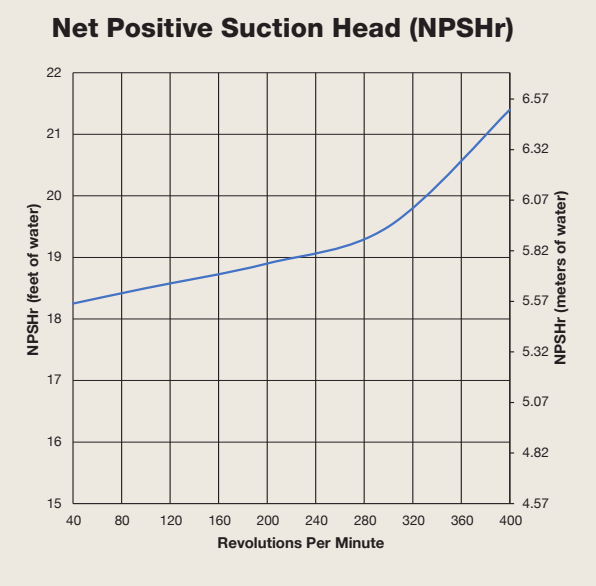
Model	Max. Input rpm	Plunger Dia. inches	mm	Max. Flow Capacities gpm	l/min	BPD	Max. Pressure Ratings Discharge psi	bar	Inlet psi	bar
Q330K	400	2.250	57	153	579	5247	3000	207	500	34
Q330M	400	2.125	54	136	514	4664	3500	241	500	34

Consult factory when operating below 45 rpm





Q330 Pro 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 the Wanner Engineering Continuous Improvement Program, specifications and other data are subject to change.

Q330 Pro Medium Pressure | Specifications

Flow Capacities

Model	Pressure psi (bar)	rpm	gpm	l/min	BPD
Q330K	3000 (207)	400	153	579	5247
Q330M	3500 (241)	400	136	514	4664

Delivery

	Pressure psi (bar)	gal/rev	liters/rev
Q330K	500 (34)	0.413	1.563
	1500 (103)	0.400	1.515
	3000 (207)	0.383	1.450
Q330M	500 (34)	0.369	1.395
	1750 (121)	0.357	1.351
	3500 (241)	0.342	1.293

rpm

Maximum: 400
Minimum: 40
Consult factory for speeds less than 40 rpm.

Maximum Discharge Pressure

Metallic Heads: Q330K 3000 psi (207 bar)
Q330M 3500 psi (241 bar)

Maximum Inlet Pressure 500 psi (34 bar)

Operating Temperature

Maximum: 180˚F (82.2˚C)
Minimum: 40˚F (4.4˚C)
Consult factory for temperatures outside this range.

Maximum Solids Size 800 microns

Input Shaft Right Side

Inlet Ports Weld-On: 6 inch / SCH. 40
6 inch NPT, 6 inch Class 300 RF ANSI

Discharge Ports Weld-On: 3 inch / SCH. XXH
3 inch NPT, 3 inch Class 2500 RTJ ANSI

Plunger Stroke Length 5 inch (127 mm)

Shaft Diameter 4 inch (101.6 mm)

Shaft Rotation Uni-directional (See rotation arrow.)

Oil Capacity 110 US quarts (104.1 liters)

Pump Weight 5000 lbs. (2268 kg)

Fluid End Materials

Manifold: Nickel Aluminum Bronze (NAB)
Diaphragm/Elastomers: FKM
Buna-N
Diaphragm Follower Screw: 316 Stainless Steel
Duplex Alloy 2205 Stainless Steel
Hastelloy C
Valve Spring Retainer/Guide: Hastelloy C / PVDF
Check Valve Spring: Elgiloy
Hastelloy C
Valve Disc/Seat: 17-4 Stainless Steel
Nitronic 50
Hastelloy C
Inlet/Outlet Valve Retainer: 316 Stainless Steel
Duplex Alloy 2205 Stainless Steel
Hastelloy C

Power End Materials

Crankshaft: Ductile Iron
Connecting Rods: Ductile Iron
Crossheads: Ductile Iron
Crankcase: Ductile Iron
Bearings: Spherical Roller Journal
(outer mains)
Steel Backed Tri-metal (crankpin)
Bronze (wristpin, center mains)

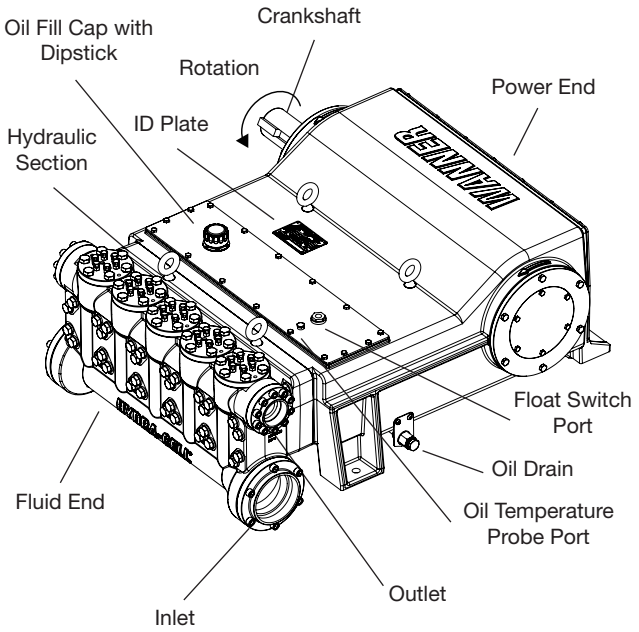
Calculating Required Horsepower (kW)*

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

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

** hp (kW) is required application power.*

Attention!
When sizing motors with variable frequency 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.



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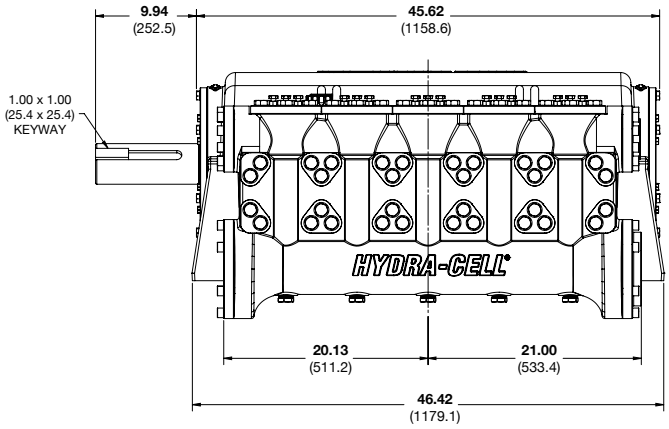
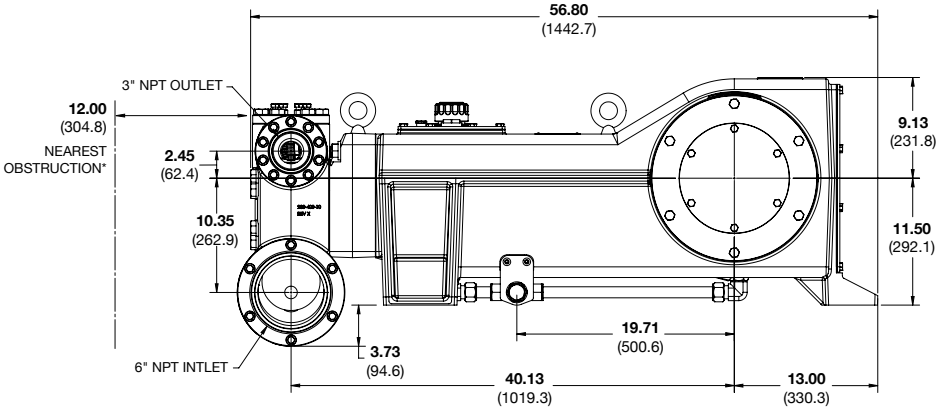
Threaded Version Inches (mm)

Front View

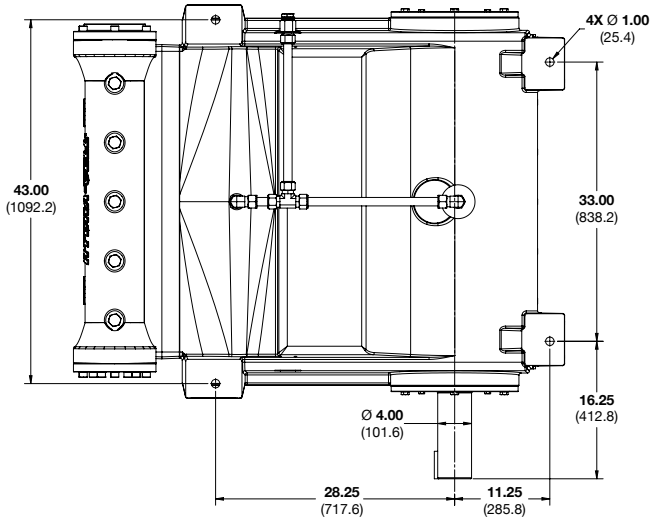


Side View



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

Bottom View



Note: Dimensions are for reference only. Contact factory for certified drawings.

Ordering Information

A complete Q330 Pro Series Medium Pressure Model Number contains 14 digits including 8 customer-specified design and materials options, for example: Q330KADTHFETAC.

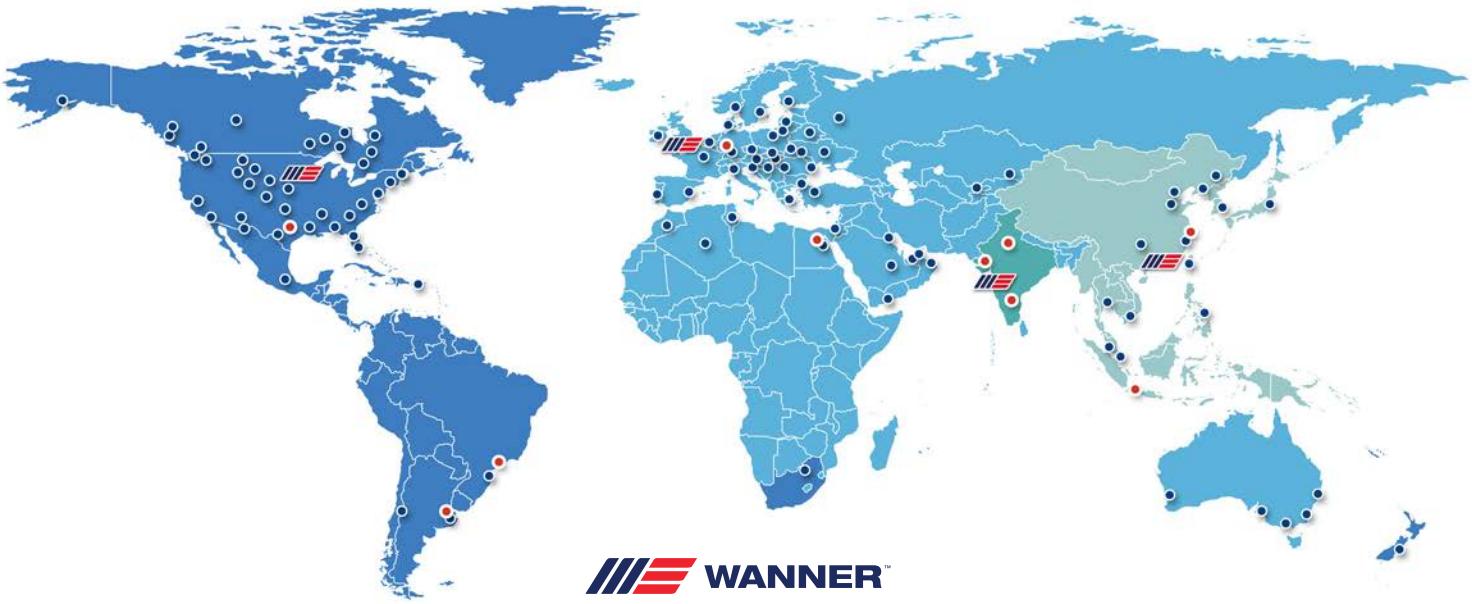
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Q	3	3	0			D					T		

Medium Pressure

Digit	Order Code	Description
1-4		**Pump Configuration**
	Q330	Shaft-driven
5		**Performance**
	K	Max. 153 gpm (579 l/min) 5247 BPD @ 3000 psi (207 bar)
	M	Max. 136 gpm (514 l/min) 4664 BPD @ 3500 psi (241 bar)
6		**Pump Head Version**
	A	NPT Ports, Steel
	C	Weld Neck, Steel
	D	Weld Neck, 316L Stainless Steel
	E	Weld Neck, Hastelloy C
	F	Weld Neck, Duplex Alloy 2205 Stainless Steel
	G	ANSI Flanged Ports, Duplex Alloy 2205 Stainless Steel
	T	ANSI Flanged Ports, Hastelloy C
7		**Pump Head Material**
	D	Nickel Aluminum Bronze (NAB)
8		**Diaphragm & O-ring Material**
	G	FKM
	T	Buna-N
9		**Valve Seat Material**
	H	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
10		**Valve Material**
	F	17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
11		**Valve Springs**
	E	Elgiloy
	T	Hastelloy C
12		**Valve Spring Retainers / Valve Guide**
	T	Hastelloy C / PVDF

Digit	Order Code	Description
13		**Hydra-Oil**
	A	10W30 standard-duty oil
	B	40-wt. oil
	H	15W50 high-temp severe-duty synthetic oil
14		**Oil Level Monitor Cover**
	C	Float switch, normally closed (recommended)
	O	Float switch, normally open
	S	Float switch, Class I, Div. 1, Groups A, B, C, D, normally closed
	T	Float switch, Class I, Div. 1, Groups A, B, C, D, normally open
	Y	No switch, flat back cover

Partners in over 70 countries



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