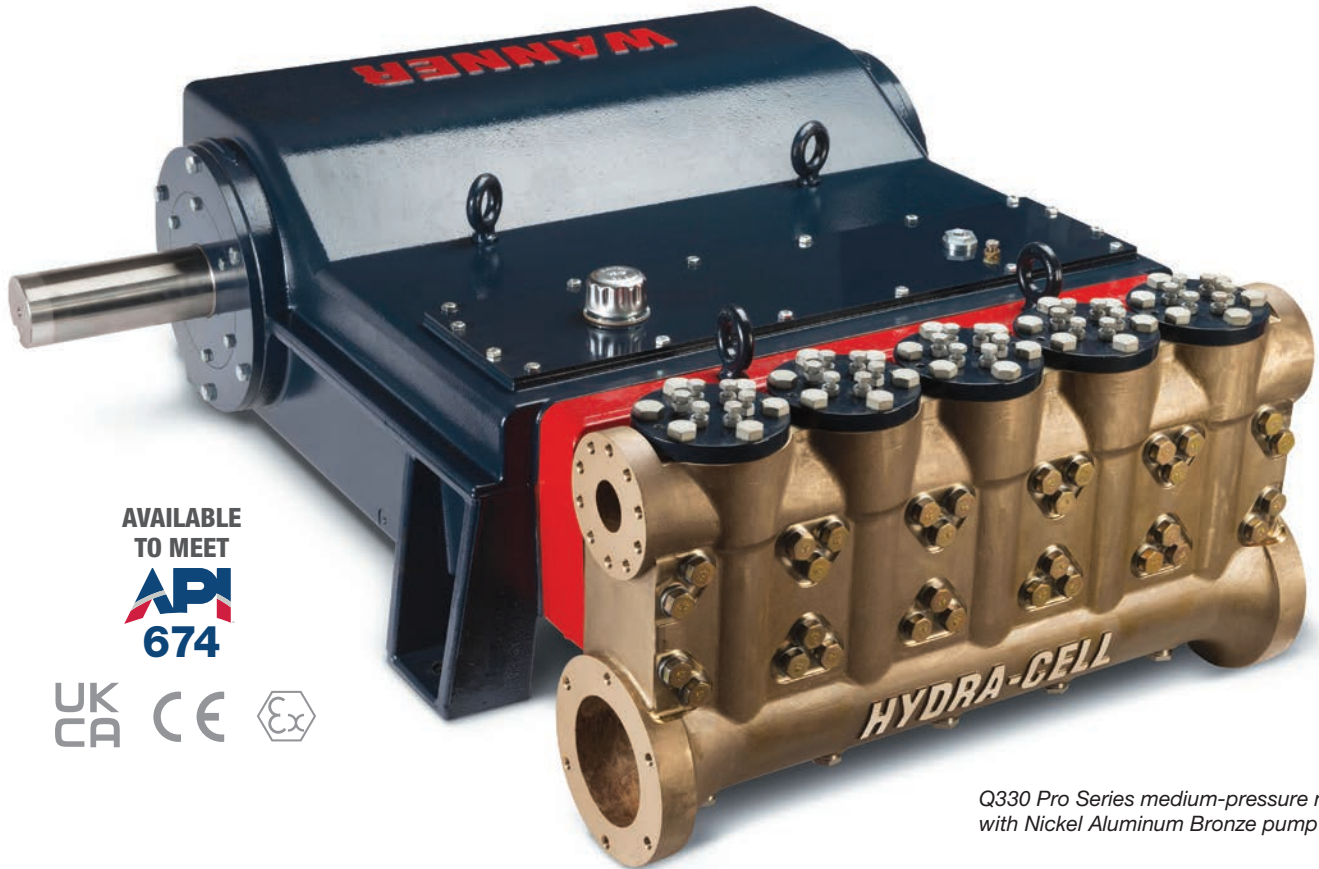


Q330 PRO SERIES MEDIUM PRESSURE

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

674

UK
CA  

*Q330 Pro Series medium-pressure model
with Nickel Aluminum Bronze pump head.*

High-pressure performance with exclusive low-pulse, linear flow that reduces pump energy costs and stress.

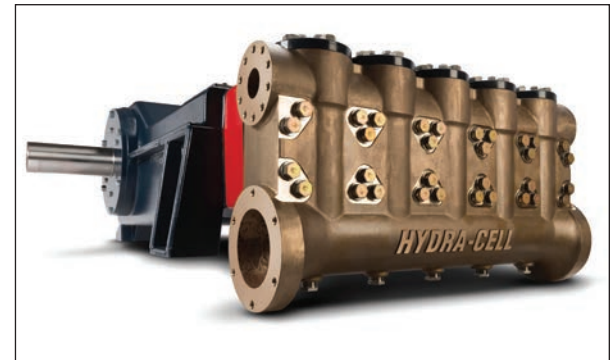
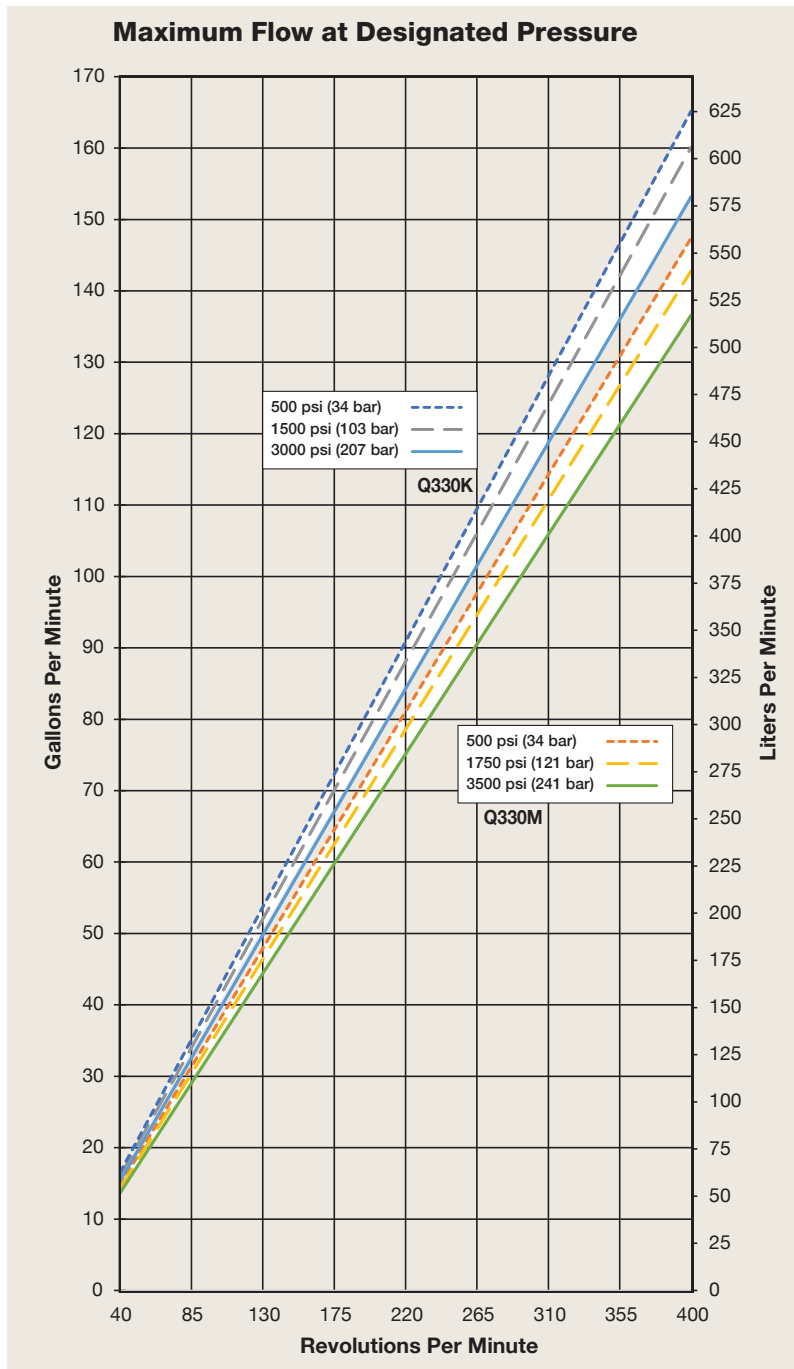
- Seal-less design separates the power end from the process fluid end, eliminating leaks, hazards, and the expense associated with seals and packing.
- Low NPSH requirements allow for operation with a vacuum condition on the suction - positive suction pressure is not necessary.
- Can operate with a closed 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 and other pump technologies.
- Rugged construction for long life with minimal maintenance.
- Compact design provides a variety of installation options.

Q330 Pro Medium Pressure | Performance

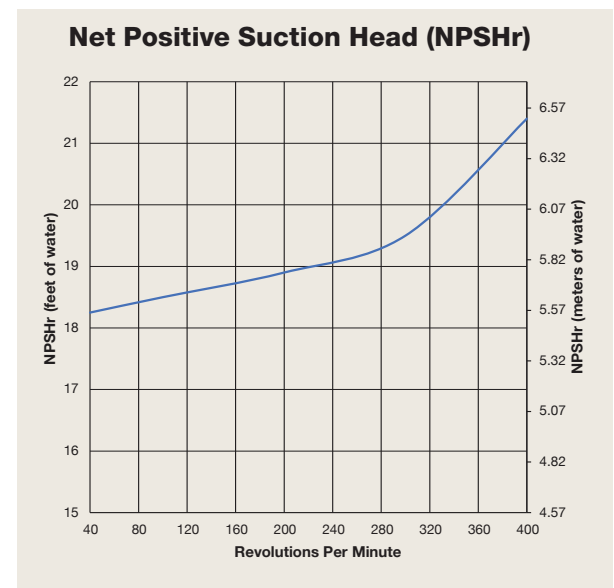
Capacities

Model	Max. Input rpm	Plunger Dia.		Max. Flow Capacities			Max. Pressure Ratings Discharge		Max. Pressure Ratings Inlet	
		inches	mm	gpm	l/min	BPD	psi	bar	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
Maximum API 674:	310
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)

Calculating Required Horsepower (kW)*

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

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

* 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.

Shaft Rotation

Uni-directional (See rotation arrow.)

Oil Capacity

110 US quarts (104.1 liters)

Weight

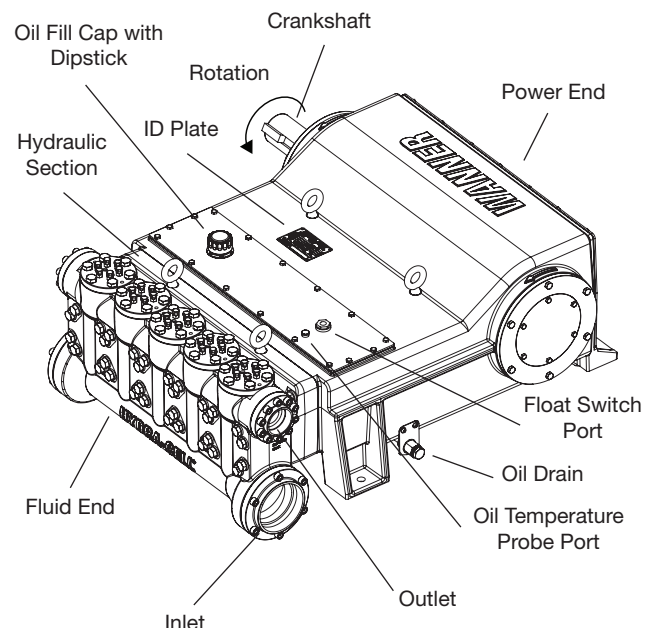
Metallic Heads: 5000 lbs. (2268 kg)

Fluid End Materials

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

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)

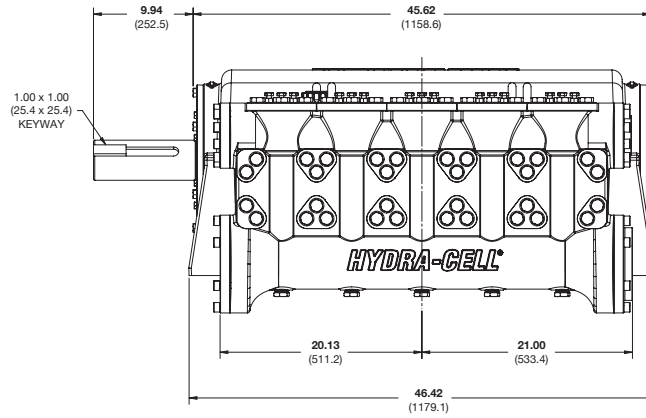


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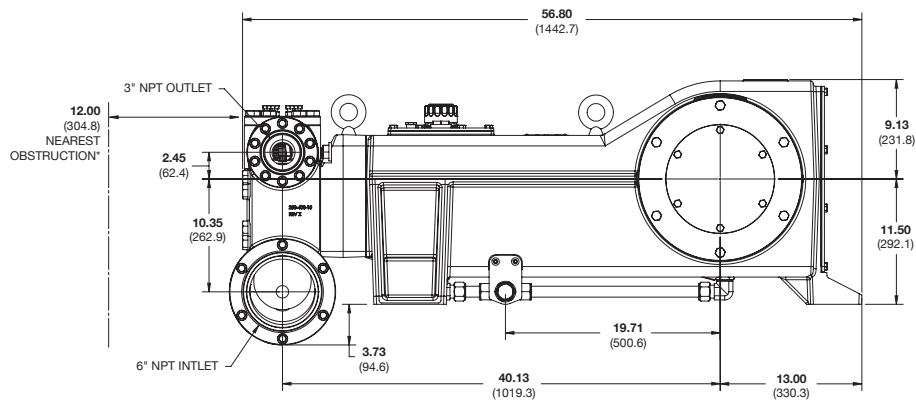
Q330 Pro Medium Pressure | Drawings

Threaded Version Inches (mm)

Front View

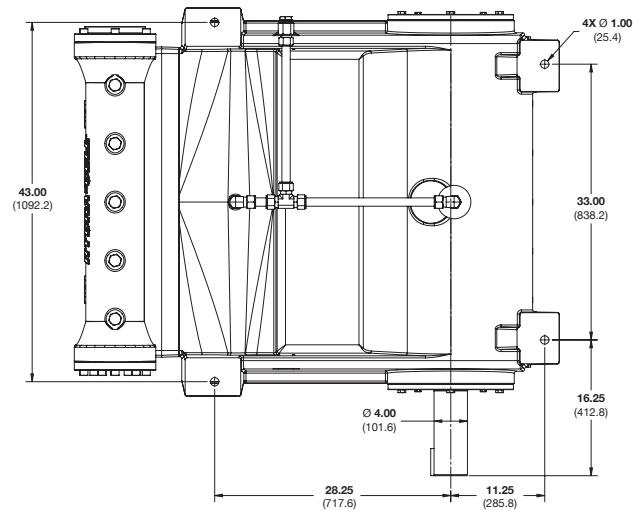


Side View



*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.

Q330 Pro Medium Pressure | How to Order

Ordering Information

A complete Q330 Pro Series Medium Pressure Model Number contains 14 digits including 8 customer-specified design and materials options, for example: Q330KDDGHFETA.

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

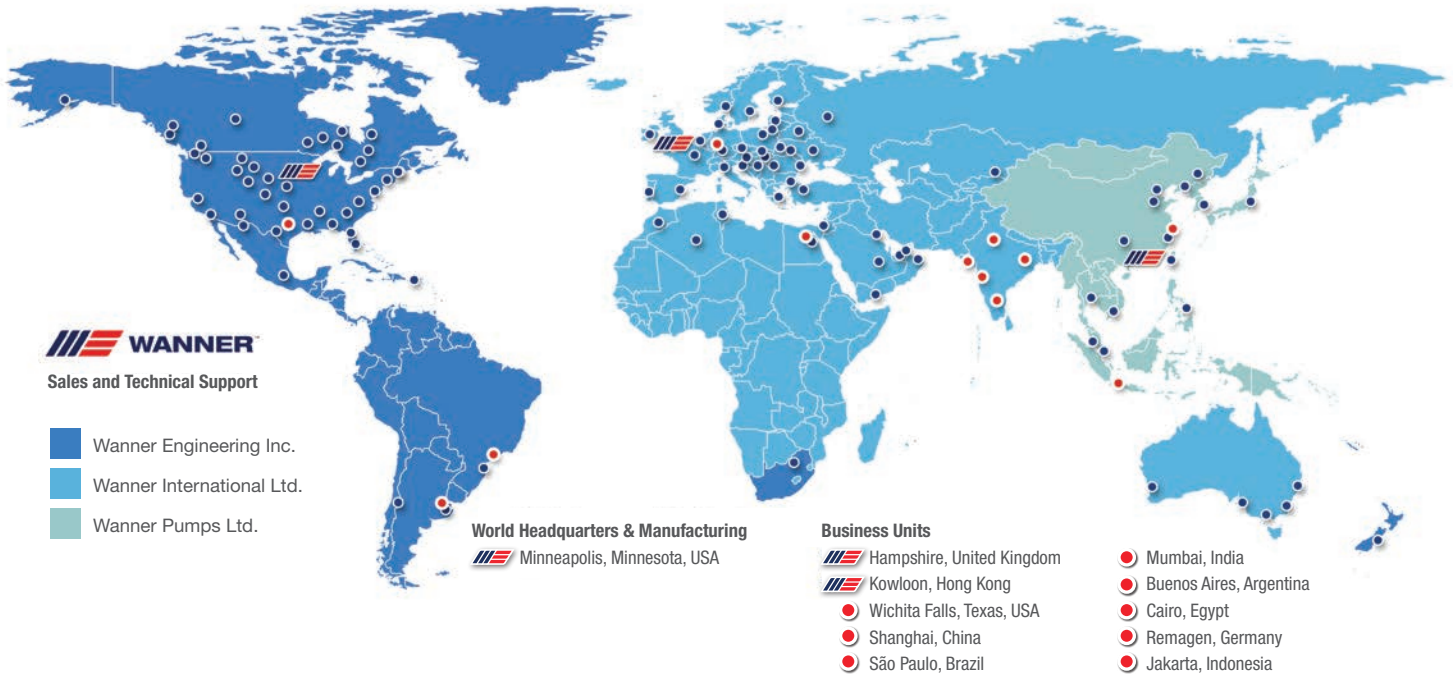
Medium Pressure

Digit	Order Code	Description
1-4	Q330	Pump Configuration Shaft-driven
5	K	Performance 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	A	Pump Head Version 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 Stainless Steel)
	T	ANSI Flanged Ports (Hastelloy)
7	D	Pump Head Material Nickel Aluminum Bronze (NAB)
8	G	Diaphragm & O-ring Material FKM
	T	Buna-N
9	H	Valve Seat Material 17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
10	F	Valve Material 17-4 Stainless Steel
	N	Nitronic 50
	T	Hastelloy C
11	E	Valve Springs Elgiloy
	T	Hastelloy C
12	T	Valve Spring Retainers / Valve Guide Hastelloy C / PVDF

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



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