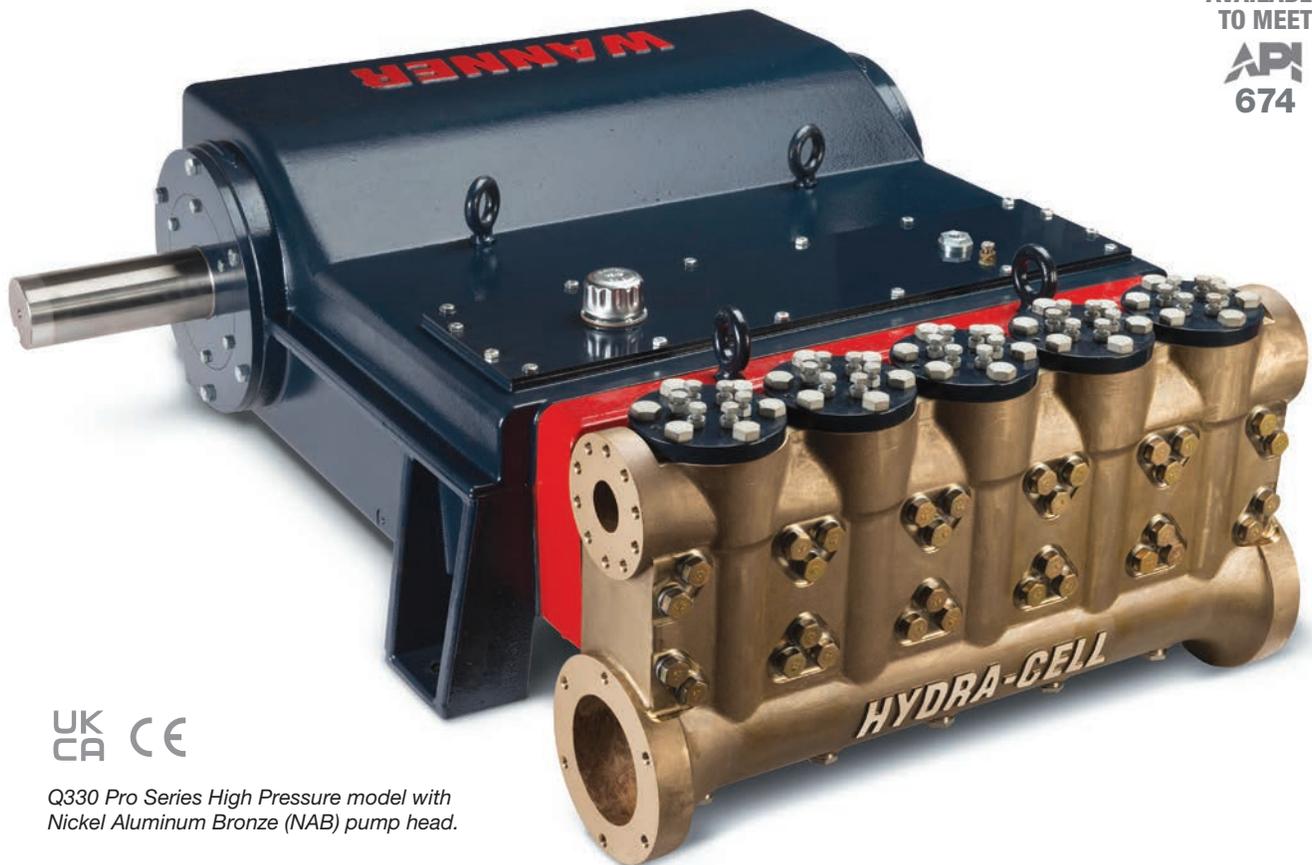


# Q330 PRO SERIES HIGH PRESSURE

Maximum Flow Rate: 118 gpm (446 l/min) 4045 BPD  
Maximum Pressure: 4500 psi (310 bar)

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

AVAILABLE  
TO MEET  
  
674



UK  
CA CE

*Q330 Pro Series High 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.

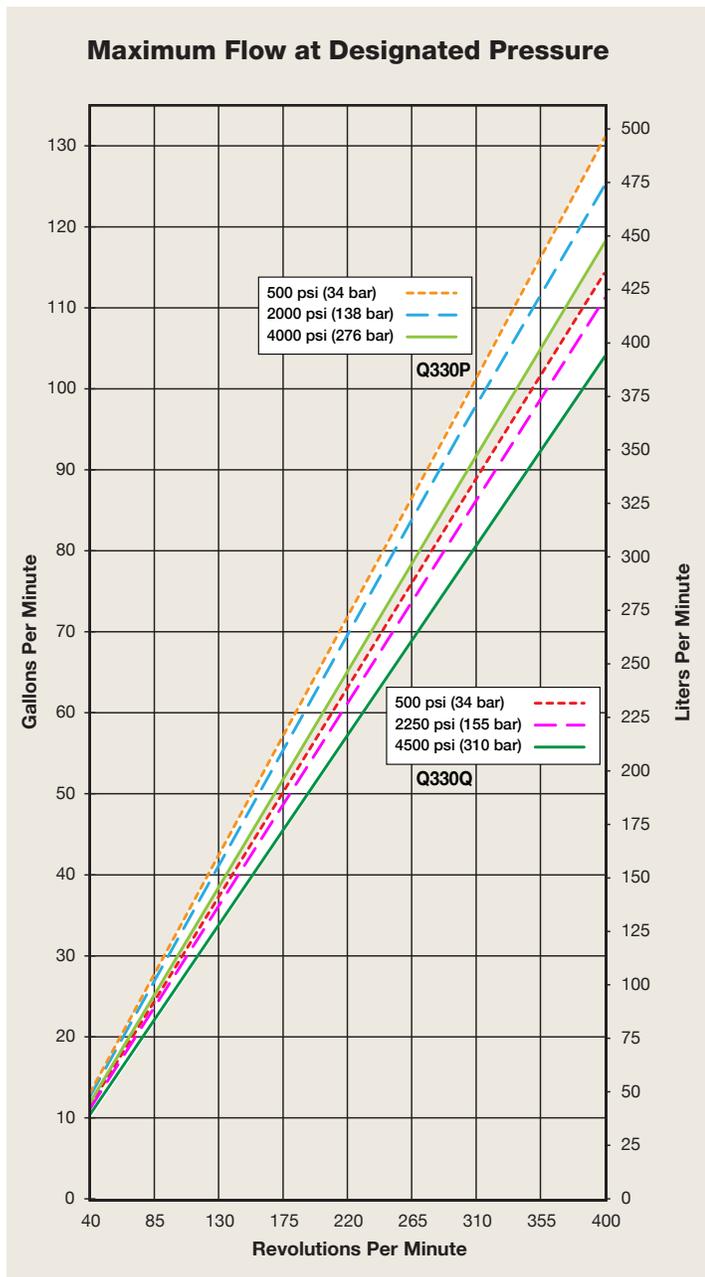
  
**WANNER™**

# Q330 Pro High Pressure | Performance

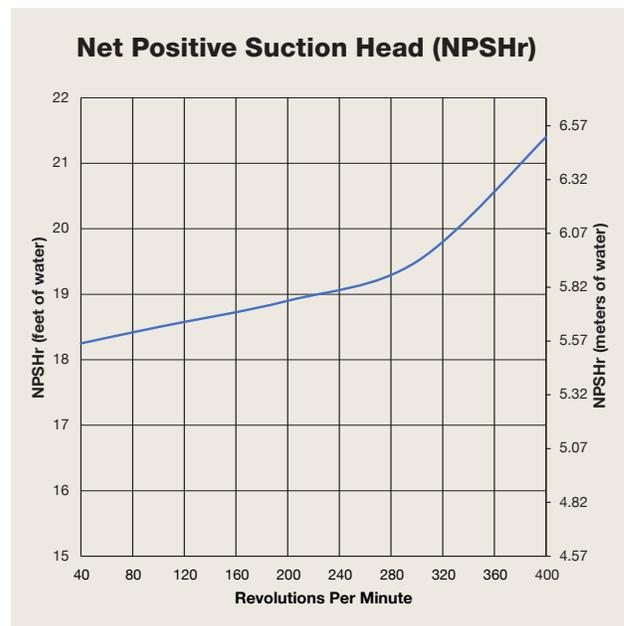
## Capacities

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
Q330P	400	2.000	51	118	446	4045	4000	276	500	34
Q330Q	400	1.875	48	104	393	3566	4500	310	500	34

Consult factory when operating below 40 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 High Pressure | Specifications

## Flow Capacities

Model	Pressure psi (bar)	rpm	gpm	l/min	BPD
Q330P	4000 (278)	400	118	446	4045
Q330Q	4500 (310)	400	104	393	3566

## Delivery

	Pressure psi (bar)	gal/rev	liters/rev
Q330P	500 (34)	0.325	1.230
	2000 (138)	0.310	1.172
	4000 (278)	0.293	1.109
Q330Q	500 (34)	0.286	1.083
	2250 (155)	0.276	1.046
	4500 (310)	0.260	0.983

## rpm

Maximum:	400
Minimum:	40

Consult factory for speeds less than 40 rpm.

## Maximum Discharge Pressure

Metallic Heads:	Q330P	4000 psi (276 bar)
	Q330Q	4500 psi (310 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)

## 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 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.

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

## Pump Weight

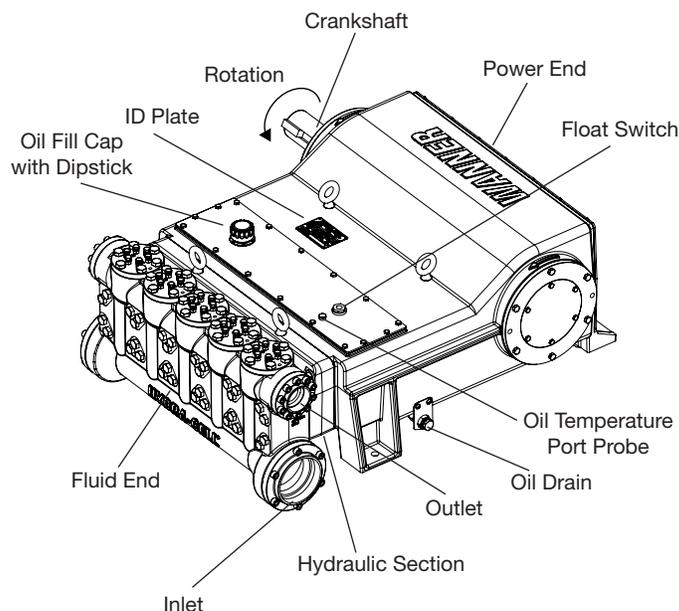
5000 lbs. (2268 kg)

## 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:	Hastelloy C
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

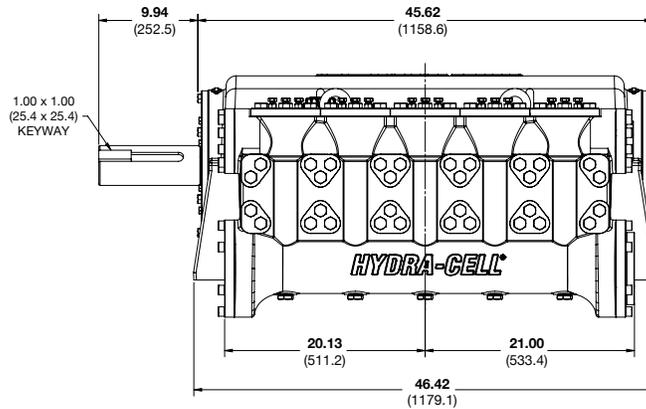
Crankshaft:	Ductile Iron
Connecting Rods:	Ductile Iron
Crossheads:	Ductile Iron
Crankcase:	Ductile Iron
Bearings:	Spherical Roller Journal (outer mains) Steel Backed Tri-metal (crankpin) Bronze (wristpin, center mains)



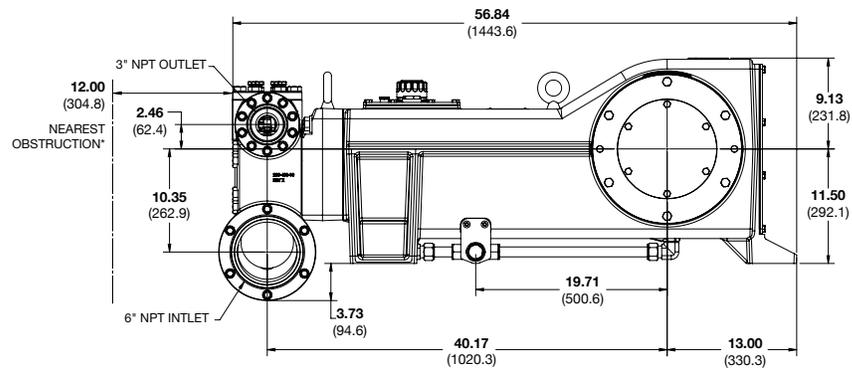
# Q330 Pro High Pressure | Drawings

## Threaded Version Inches (mm)

### Front View

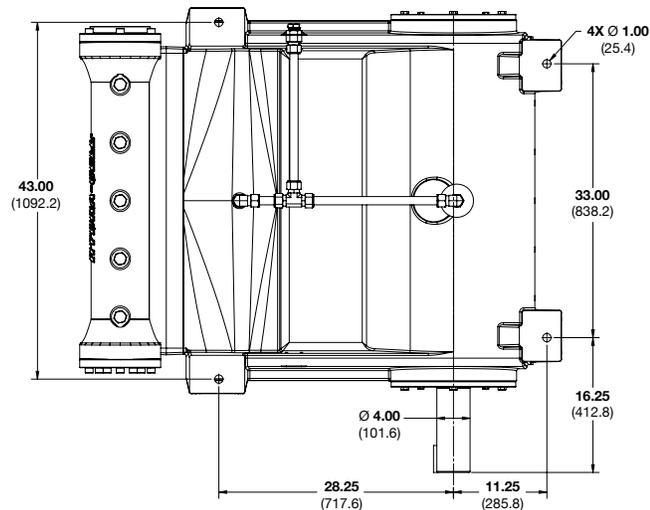


### Side View



\*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 High Pressure | How to Order

## Ordering Information

A complete Q330 Pro Series High Pressure Model Number contains 14 digits including 8 customer-specified design and materials options, for example: Q330PADTHFETAC.

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

## High Pressure

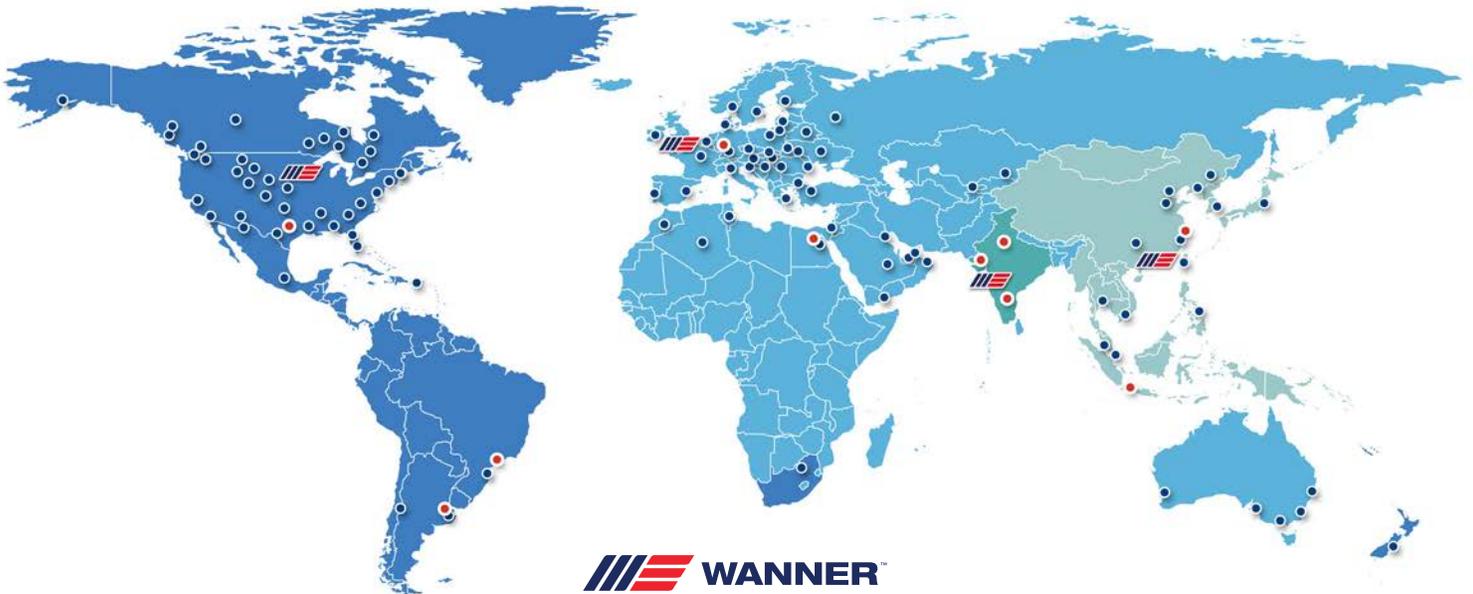
Digit	Order Code	Description
<b>1-4</b>	<b>Q330</b>	<b>Pump Configuration</b> Shaft-driven
<b>5</b>	<b>P</b>	<b>Performance</b> Max. 118 gpm (446 l/min) 4045 BPD @ 4000 psi (276 bar)
	<b>Q</b>	Max. 104 gpm (393 l/min) 3566 BPD @ 4500 psi (310 bar)
<b>6</b>	<b>A</b>	<b>Pump Head Version</b> NPT Ports, Steel
	<b>C</b>	Weld Neck, Steel
	<b>D</b>	Weld Neck, 316L Stainless Steel
	<b>E</b>	Weld Neck, Hastelloy C
	<b>F</b>	Weld Neck, Duplex Alloy 2205 Stainless Steel
	<b>G</b>	ANSI Flanged Ports, Duplex Alloy 2205 Stainless Steel
	<b>T</b>	ANSI Flanged Ports, Hastelloy C
<b>7</b>	<b>D</b>	<b>Pump Head Material</b> Nickel Aluminum Bronze (NAB)
<b>8</b>	<b>G</b>	<b>Diaphragm &amp; O-ring Material</b> FKM
	<b>T</b>	Buna-N
<b>9</b>	<b>D</b>	<b>Valve Seat Material</b> Tungsten Carbide*
	<b>H</b>	17-4 Stainless Steel
	<b>N</b>	Nitronic 50
	<b>T</b>	Hastelloy C
<b>10</b>	<b>D</b>	<b>Valve Material</b> Tungsten Carbide*
	<b>F</b>	17-4 Stainless Steel
	<b>N</b>	Nitronic 50
	<b>T</b>	Hastelloy C
<b>11</b>	<b>D</b>	<b>Valve Springs</b> Elgiloy for Tungsten Carbide valves*
	<b>E</b>	Elgiloy
	<b>T</b>	Hastelloy C

\* Tungsten Carbide valve seat and disc are a matched set and must be purchased together along with appropriate valve springs.

Digit	Order Code	Description
<b>12</b>	<b>T</b>	<b>Valve Spring Retainers / Valve Guide</b> Hastelloy C / PVDF
<b>13</b>	<b>A</b>	<b>Hydra-Oil</b> 10W30 standard-duty oil
	<b>B</b>	40-wt. oil
	<b>H</b>	15W50 high-temp severe-duty synthetic oil
<b>14</b>	<b>C</b>	<b>Oil Level Monitor Cover</b> Float switch, normally closed (recommended)
	<b>O</b>	Float switch, normally open
	<b>S</b>	Float switch, Class I, Div. 1, Groups A, B, C, D, normally closed
	<b>T</b>	Float switch, Class I, Div. 1, Groups A, B, C, D, normally open
	<b>Y</b>	No switch, flat back cover



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