

# Q330 PRO SERIES LOW PRESSURE

Maximum Flow Rate: 1249 l/min (330 US gpm) 11312 BPD  
Maximum Pressure: 138 bar (2000 psi)

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



AVAILABLE  
TO MEET  
  
674

UK  
CA CE

Q330 Series with Nickel  
Aluminum Bronze 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.

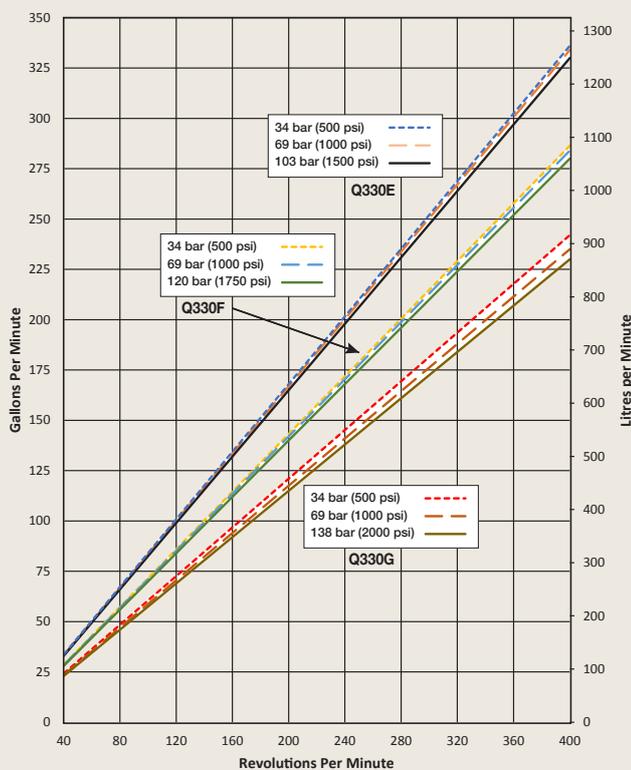
# Q330 Pro Low Pressure | Performance

## Capacities

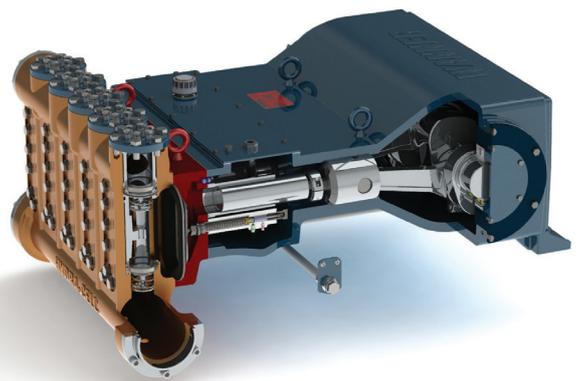
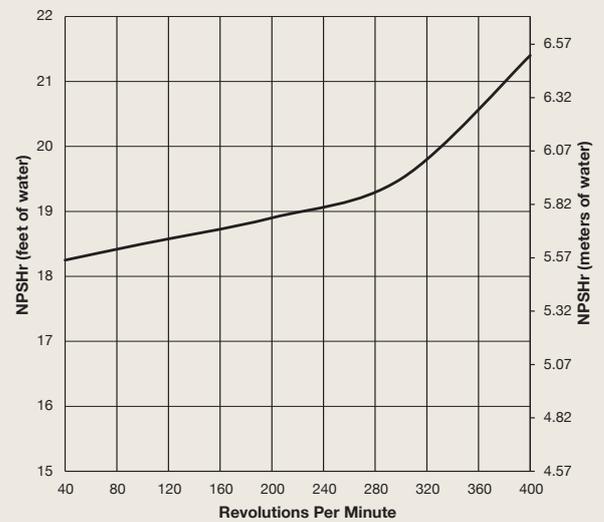
Model	Max. Input rpm	Plunger Dia.		Max. Flow Capacities			Max. Pressure Ratings			
							Discharge		Inlet	
		mm	inches	US gpm	l/min	BPD	bar	psi	bar	psi
Q330E	400	82	3.250	330	1249	11312	103	1500	34	500
Q330F	400	76	3.000	280	1060	9598	120	1750	34	500
Q330G	400	70	2.750	230	871	7884	138	2000	34	500

Consult Wanner when operating below 40 rpm

### Maximum Flow at Designated Pressure



### Net Positive Suction Head (NPSHr)



Q330 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.

**Note: Each pump complies with item 6.8.2 of API 674 across the full performance range.**

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

# Q330 Pro Low Pressure | Specifications

## Flow Capacities

Model	Pressure bar (psi)	rpm	US gpm	l/min	BPD
Q330E	103 (1500)	400	330	1249	11312
Q330F	120 (1750)	400	280	1060	9598
Q330G	138 (2000)	400	230	871	7884

## Delivery

	Pressure bar (psi)	gal/rev	litres/rev
Q330E	34 (500)	0.8400	3.180
	69 (1000)	0.8350	3.161
	103 (1500)	0.8250	3.123
Q330F	34 (500)	0.7160	2.710
	69 (1000)	0.7100	2.688
	120 (1750)	0.7000	2.650
Q330G	34 (500)	0.6025	2.281
	69 (1000)	0.5875	2.224
	138 (2000)	0.5750	2.177

## rpm

Maximum:	400
Minimum:	40

Consult Wanner for speeds less than 40 rpm.

## Maximum Discharge Pressure

Metallic Heads:	Q330E	103 bar (1500 psi)
	Q330F	120 bar (1750 psi)
	Q330G	138 bar (2000 psi)

**Maximum Inlet Pressure** 34 bar (500 psi)

## Operating Temperature

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

Consult Wanner for temperatures outside this range.

**Maximum Solids Size** 800 microns

**Input Shaft** Right Side (Option for left side)

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

**Discharge Ports** Weld-On: 4 inch / SCH 160  
4 inch NPT, 4 inch Class 900 RF ANSI

## 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.

**Plunger Stroke Length** 127 mm (5 inch)

**Shaft Diameter** 101.6 mm (4 inch)

**Shaft Rotation** Uni-directional (See rotation arrow.)

**Oil Capacity** 113.5 litres (120 US quarts)

## Weight

Metallic Heads: 2495 kg (5500 lbs.)

## Fluid End Materials

Manifold: Nickel Aluminum Bronze (NAB)

Diaphragm/Elastomers: FKM

Buna-N

Aflas

Diaphragm Follower Screw: 316 Stainless Steel

Valve Guide: PVDF

Valve Spring Retainer: Nitronic 50

Hastelloy C

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: Carbon Steel or Ductile Iron

Connecting Rods: Ductile Iron

Crossheads: Ductile Iron

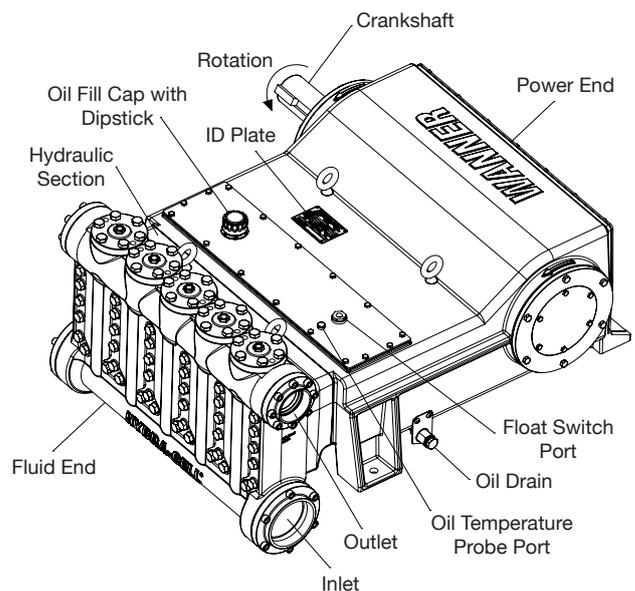
Crankcase: Ductile Iron

Bearings, Main: Spherical Roller

Bearings, Shaft Journal: Steel-Backed Babbitt

Bearings, Centre Mains: Bronze

Wrist Pins: Alloy Steel

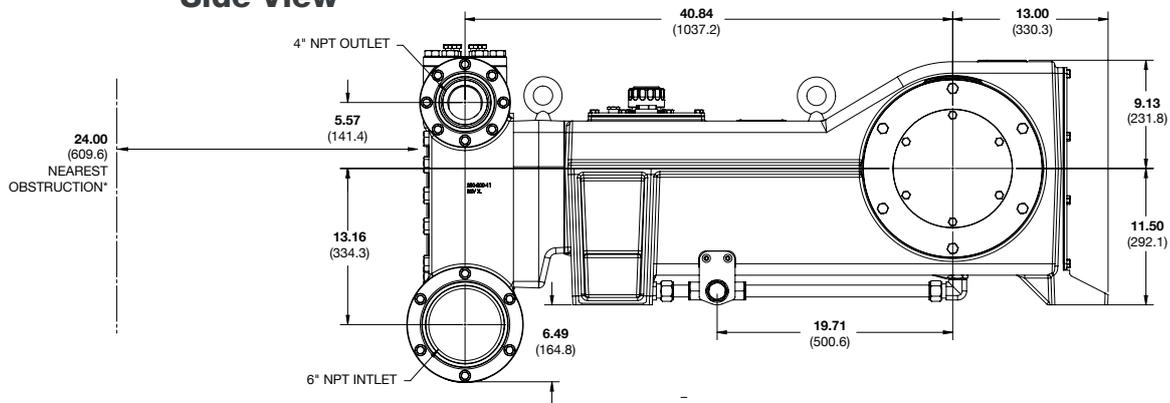


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# Q330 Pro Low Pressure | Representative Drawings

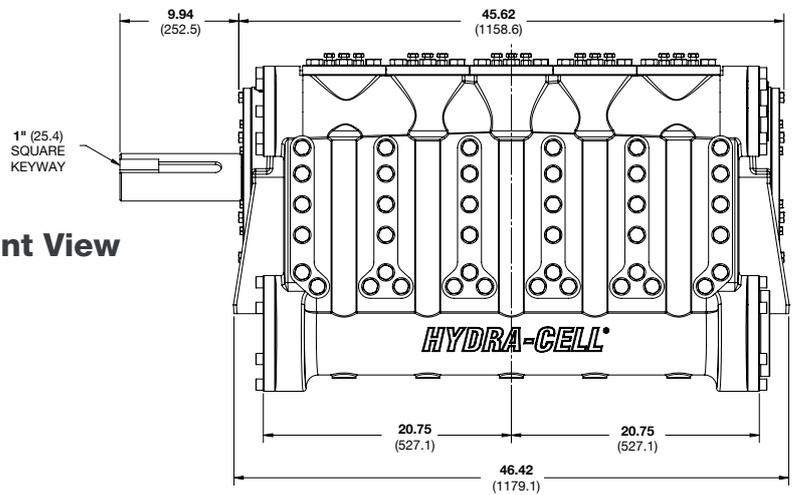
## Threaded Version inches (mm)

**Side View**

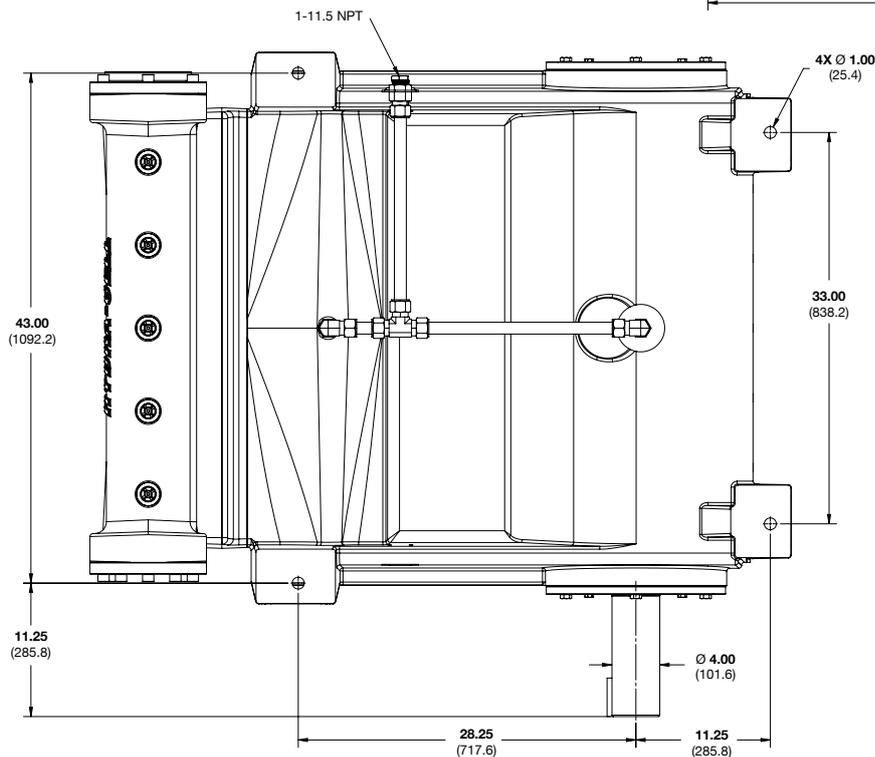


\*Contact factory for obstruction distances closer than 12 inches (304.8 mm).

**Front View**



**Bottom View**



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

# Q330 Pro Low Pressure | How to Order

## Ordering Information

A complete Q330 Series Low Pressure Model Number contains 14 digits including 9 customer-specified design and material options, for example, Q330ERDGHFETAC.

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

## Q330 Low Pressure

Digit	Order Code	Description
<b>1-4</b>	<b>Q330</b>	<b>Pump Configuration</b> Shaft-driven
<b>5</b>		<b>Performance</b>
	<b>E</b>	Max. 1249 l/min (330 US gpm) 11312 BPD @ 103 bar (1500 psi)
	<b>F</b>	Max. 1060 l/min (280 US gpm) 9598 BPD @ 120 bar (1750 psi)
	<b>G</b>	Max. 871 l/min (230 US gpm) 7884 @ 138 bar (2000 psi)
<b>6</b>		<b>Pump Head Version</b>
	<b>A</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 Stainless Steel)
	<b>T</b>	ANSI Flanged Ports (Hastelloy C)
<b>7</b>		<b>Pump Head Material</b>
	<b>D</b>	Nickel Aluminium Bronze (NAB)
<b>8</b>		<b>Diaphragm &amp; O-ring Material</b>
	<b>A</b>	Aflas
	<b>G</b>	FKM
	<b>T</b>	Buna-N
<b>9</b>		<b>Valve Seat Material</b>
	<b>H</b>	17-4 Stainless Steel
	<b>N</b>	Nitronic 50
	<b>T</b>	Hastelloy C
<b>10</b>		<b>Valve Material</b>
	<b>F</b>	17-4 Stainless Steel
	<b>N</b>	Nitronic 50
	<b>T</b>	Hastelloy C

Digit	Order Code	Description
<b>11</b>		<b>Valve Springs</b>
	<b>E</b>	Elgiloy
	<b>T</b>	Hastelloy C
<b>12</b>		<b>Valve Spring Retainers / Valve Guide</b>
	<b>N</b>	Nitronic 50 / PVDF
	<b>T</b>	Hastelloy C / PVDF
<b>13</b>		<b>Hydra-Oil</b>
	<b>A</b>	10W30 standard-duty oil
	<b>B</b>	40-wt.
	<b>H</b>	15W50 high-temp severe-duty synthetic oil
<b>14</b>		<b>Oil Level Monitor Cover</b>
	<b>C</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>X</b>	Float switch, ATEX, discrete output (ATEX-certified pump and float switch)



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