

Q330 PRO SERIES LOW PRESSURE

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

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

AVAILABLE
TO MEET
 API
674



UK
CA CE

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

A higher standard of pump performance and energy efficiency.

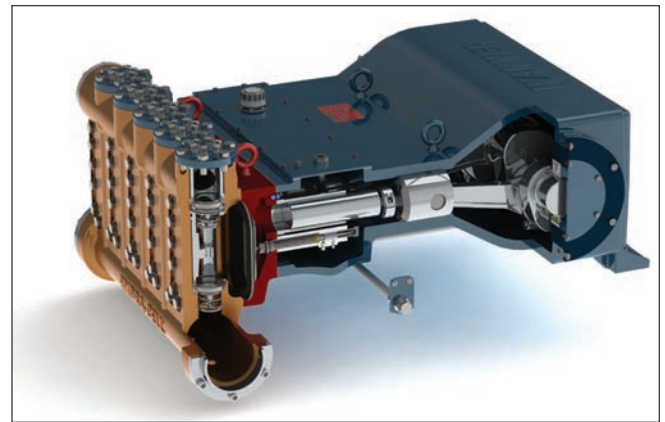
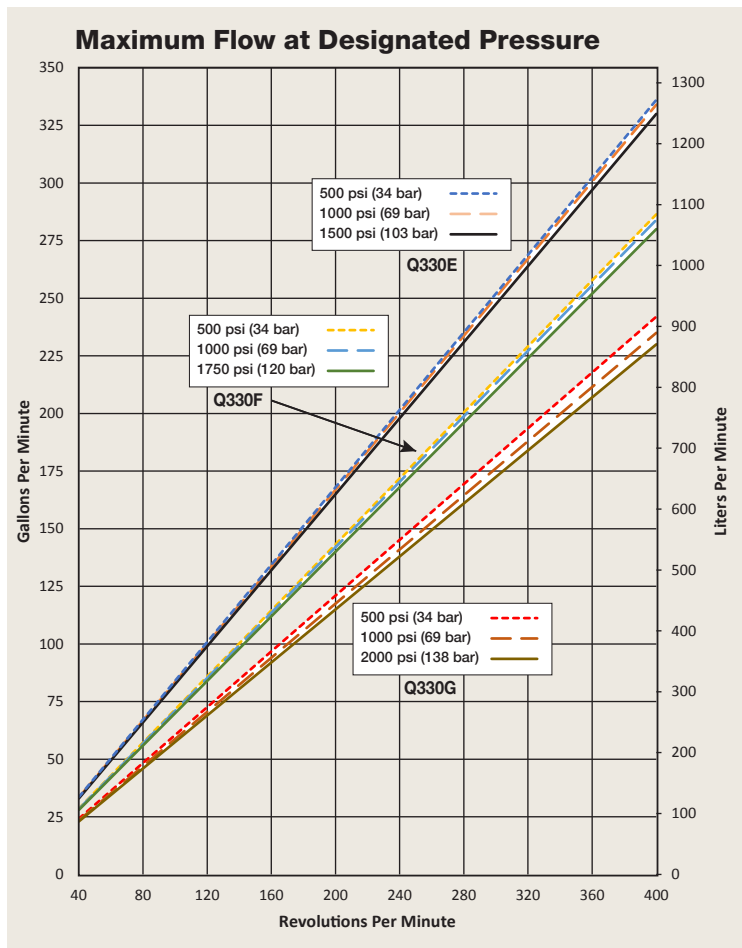
- Integrates **Wanner Hydra-Cell® Pro** seal-less pump technologies for the highest levels of volumetric and energy efficiencies across a full rpm range.
- Patented ADPC (Advanced Diaphragm Position Control) and hydraulic oil management system protect diaphragms under closed or restricted inlet conditions.
- 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.

Q330 Pro Low Pressure | Performance

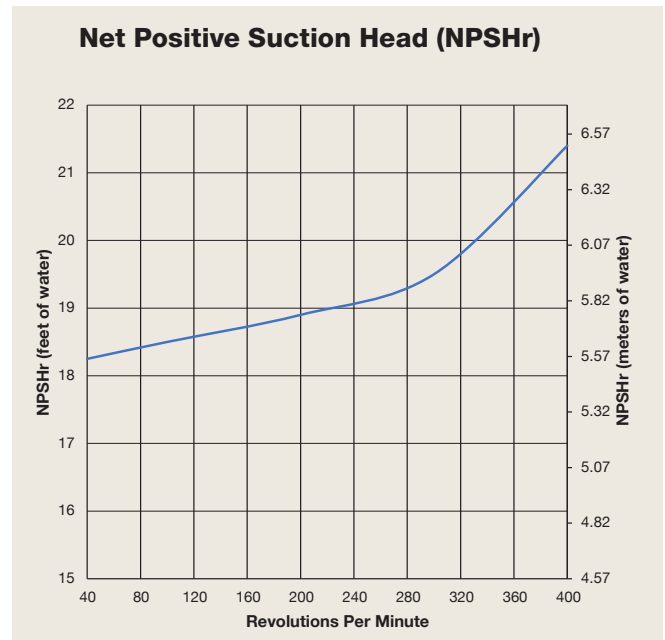
Capacities

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

Flow Capacities

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

Delivery

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

rpm

Maximum:	400
Minimum:	40

Consult factory for speeds less than 40 rpm.

Maximum Discharge Pressure

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

Inlet Ports

Weld-On: 6" / SCH. 40
6" NPT, 6" Class 300 RF ANSI

Discharge Ports

Weld-On: 4" / SCH. 160
4" NPT, 4" Class 900 RF ANSI

Plunger Stroke Length

5 inch (127 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 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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Shaft Diameter

4 inch (101.6 mm)

Shaft Rotation

Uni-directional (See rotation arrow)

Oil Capacity

120 US quarts (113.5 liters)

Pump Weight

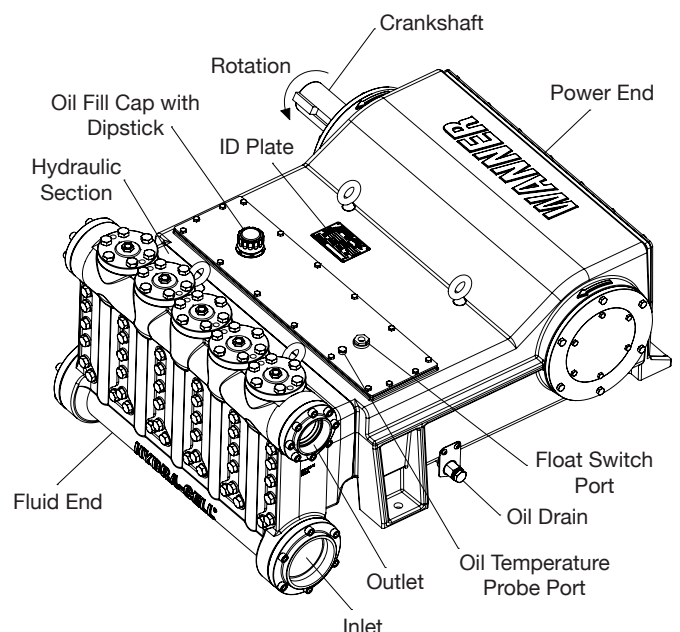
5500 lbs. (2495 kg)

Fluid End Materials

Manifold:	Nickel Aluminum Bronze (NAB)
Diaphragm/Elastomers:	Aflas FKM Buna-N
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

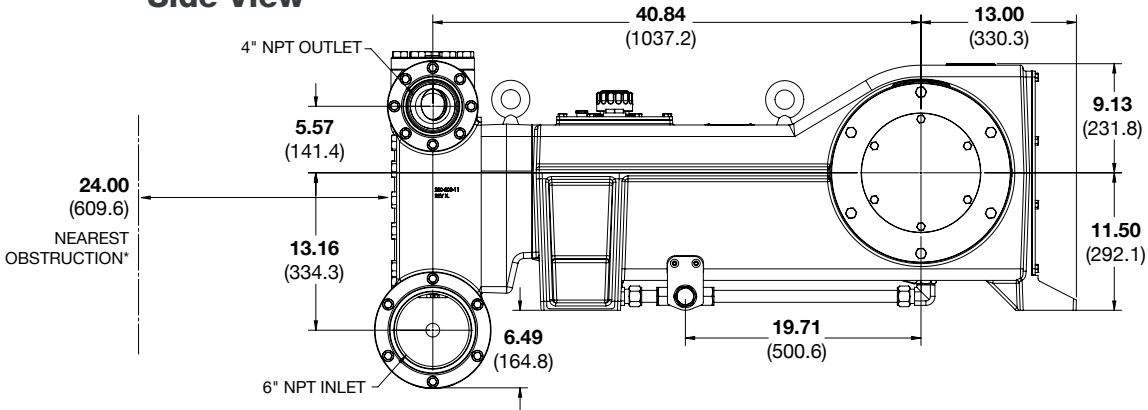
Crankshaft:	Carbon Steel or Ductile Iron
Connecting Rods:	Ductile Iron
Crossheads:	Ductile Iron
Crankcase:	Ductile Iron
Bearings, Main:	Spherical Roller
Bearings, Shaft Journal:	Steel-Backed Babbit
Bearings, Center Mains:	Bronze
Wrist Pins:	Alloy Steel



Q330 Pro Low Pressure | Drawings

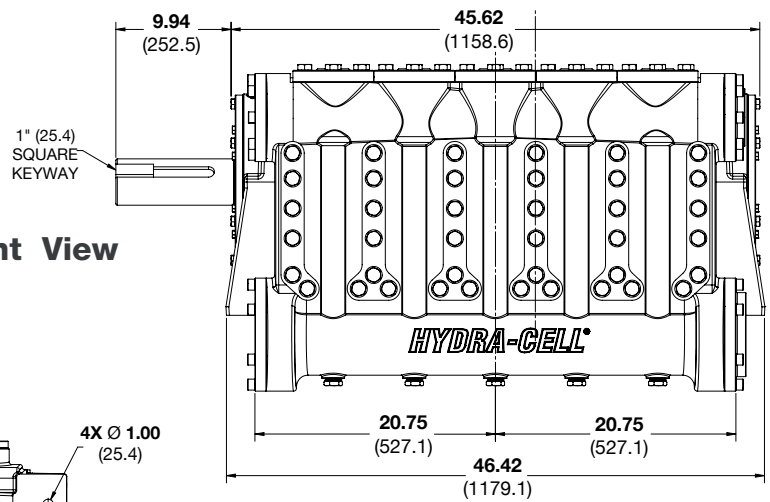
Threaded Version inches (mm)

Side View

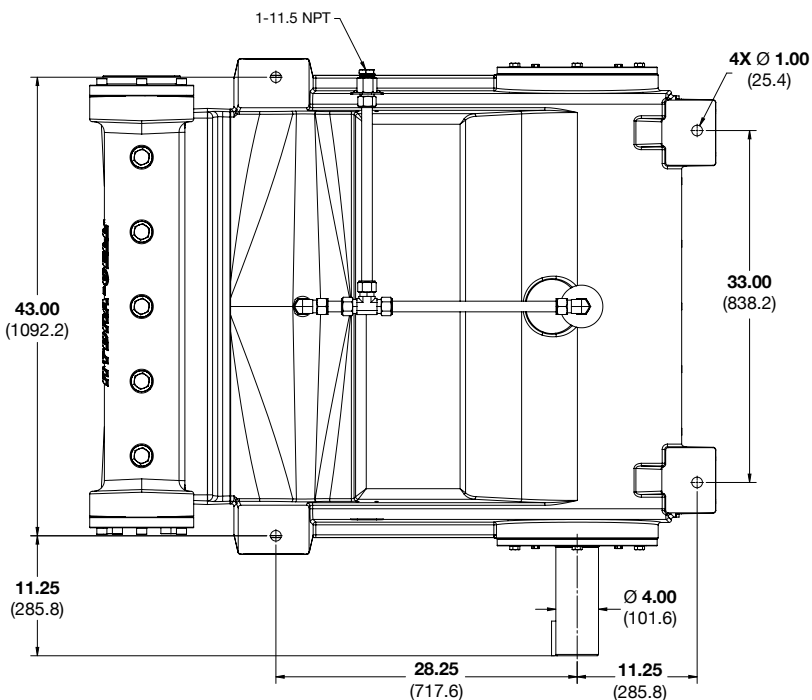


*Contact factory for obstruction distances closer than 24 inches (609.6 mm).

Front View



Bottom View



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

Q330 Pro Low Pressure | How to Order

Ordering Information

A complete Q330 Pro Series Low Pressure Model Number contains 14 digits including 9 customer-specified design and materials options, for example: Q330EADTHFENAC.

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

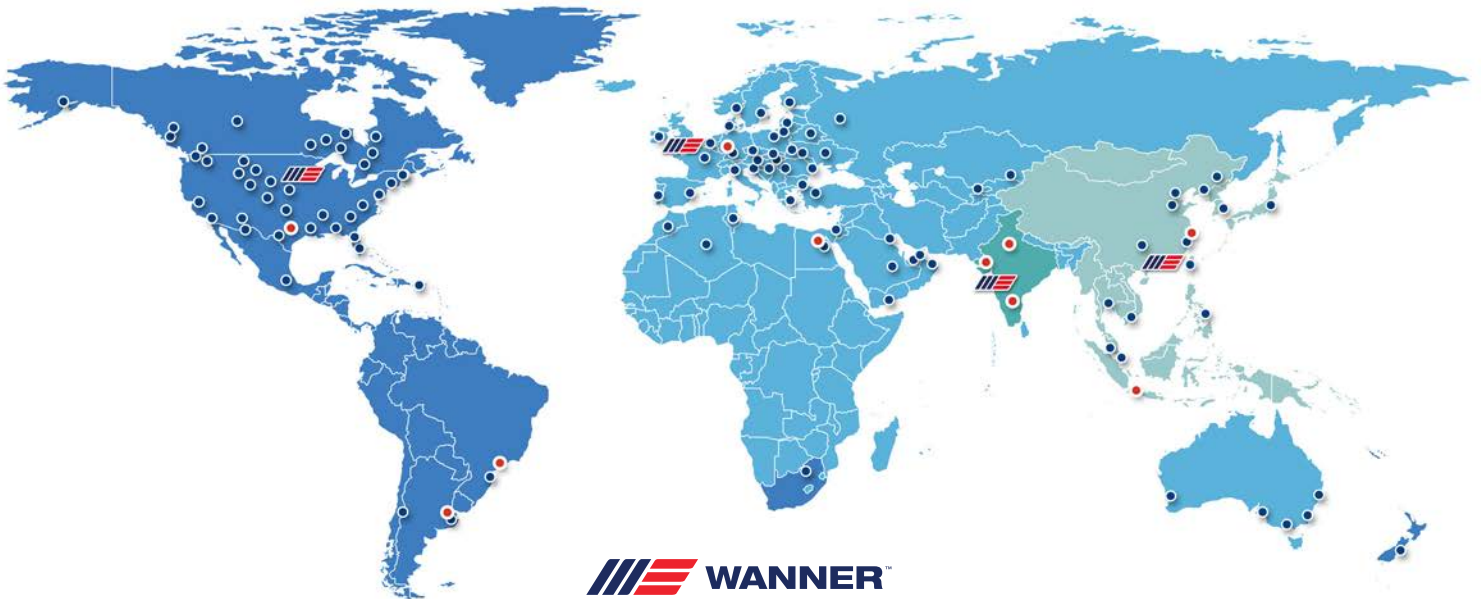
Low Pressure

Digit	Order Code	Description
1-4	Q330	Pump Configuration Shaft-driven
5		Performance
	E	Max. 330 gpm (1249 l/min) 11312 BPD @ 1500 psi (103 bar)
	F	Max. 280 gpm (1060 l/min) 9598 BPD @ 1750 psi (120 bar)
	G	Max. 230 gpm (871 l/min) 7884 BPD @ 2000 psi (138 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
	A	Aflas
	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

Digit	Order Code	Description
11		Valve Springs
	E	Elgiloy
	T	Hastelloy C
12		Valve Spring Retainers / Valve Guide
	N	Nitronic 50 / PVDF
	T	Hastelloy C / PVDF
13		Hydra-Oil
	A	10W30 standard-duty oil
	B	40-wt. oil
	H	15W50 high-temp severe-duty synthetic oil
14		Oil Level Monitoring 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



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