

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.

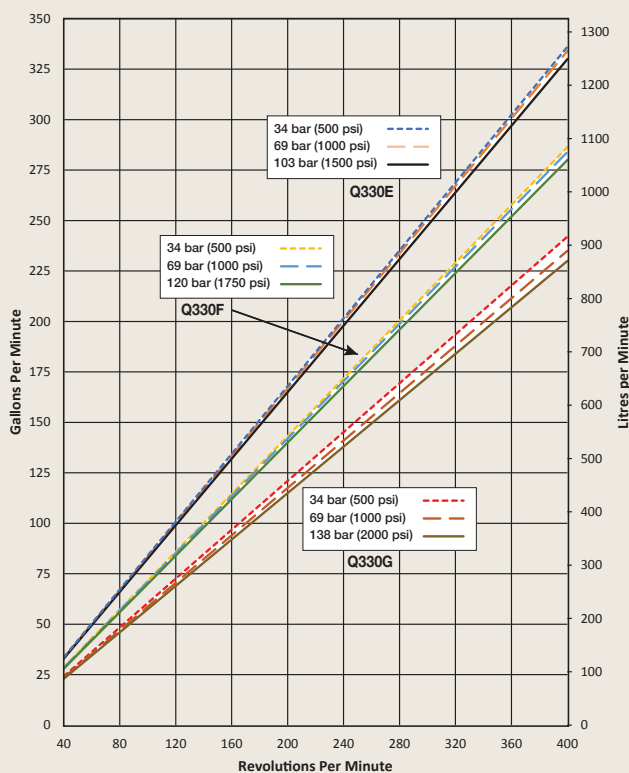
Q330 Pro Low Pressure | Performance

Capacities

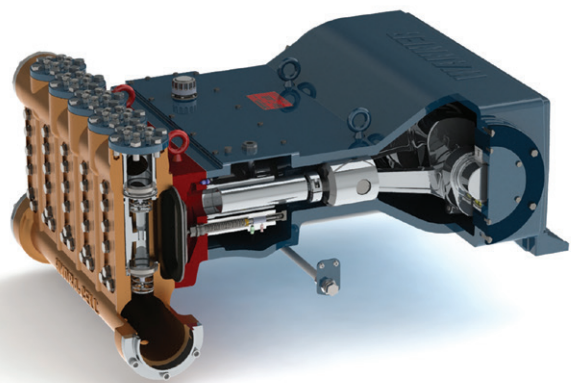
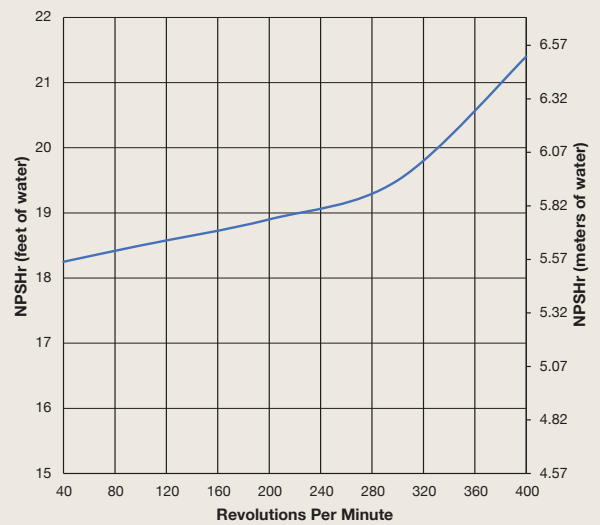
Model	Max. Input rpm	Plunger Dia.		Max. Flow Capacities			Max. Pressure Ratings			
		mm	inches	US gpm	l/min	BPD	Discharge		Inlet	
							bar	psi	bar	psi
Q330E	400	82	3.250	330	1249	11312	103	1500	34	500
Q330F	400	76	3.000	280	1060	9598	120	1750	34	500
Q330G	400	70	2.750	230	871	7884	138	2000	34	500

Consult factory 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 factory 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 factory 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

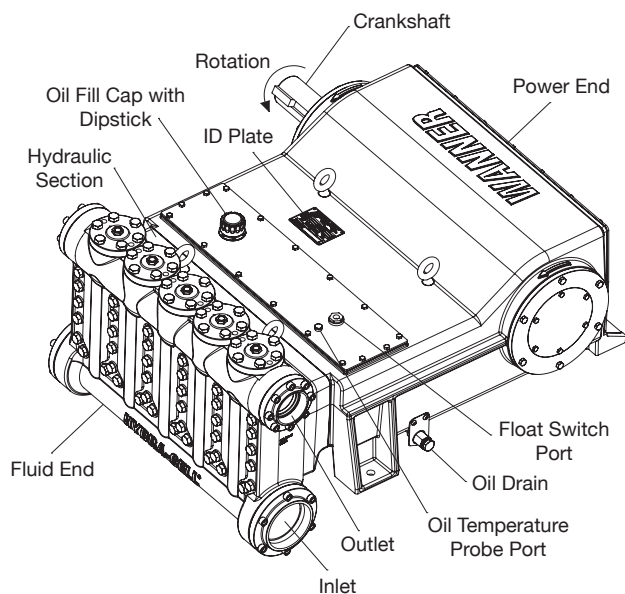
Metallic Heads: 2495 kg (5500 lbs.)

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

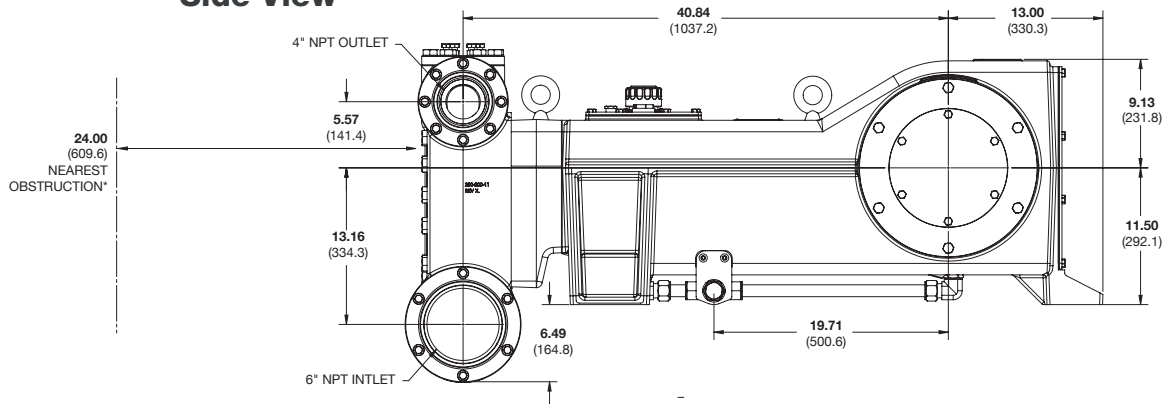


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Q330 Pro Low Pressure | Representative Drawings

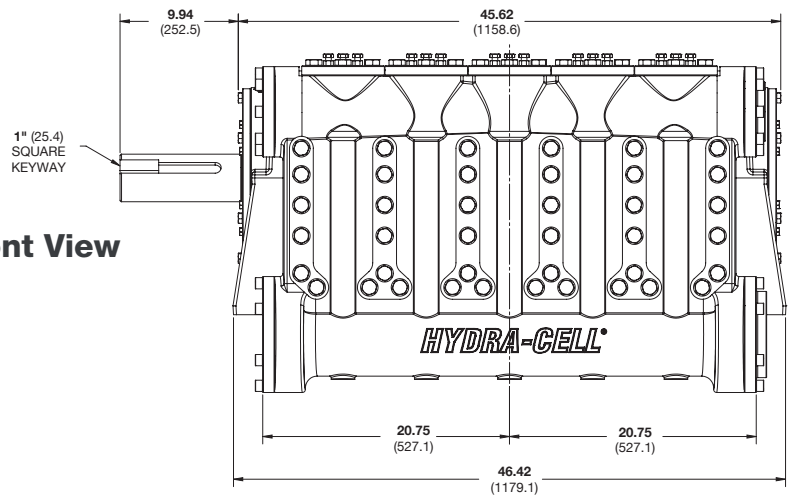
Threaded Version inches (mm)

Side View

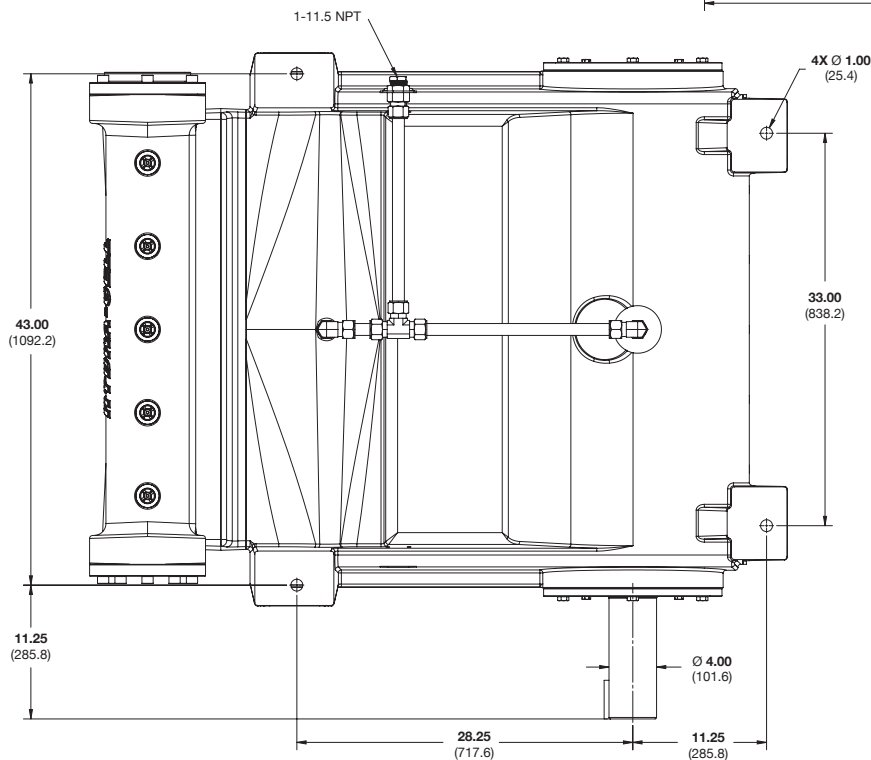


*Contact factory for obstruction distances closer than 12 inches (304.8 mm).

Front View



Bottom View



Note: Dimensions are for reference only. Contact Wanner International 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
1-4	Q330	Pump Configuration Shaft-driven
5		Performance
	E	Max. 1249 l/min (330 US gpm) 11312 BPD @ 103 bar (1500 psi)
	F	Max. 1060 l/min (280 US gpm) 9598 BPD @ 120 bar (1750 psi)
	H	Max. 871 l/min (230 US gpm) 7884 @ 138 bar (2000 psi)
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 Stainless Steel)
	T	ANSI Flanged Ports (Hastelloy C)
7		Pump Head Material
	D	Nickel Aluminium 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.
	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



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GLOBAL SALES & TECHNICAL SUPPORT

WANNER ENGINEERING, INC.

WORLD HEADQUARTERS & MANUFACTURING

Minneapolis, Minnesota USA
t: 612-332-5681
e: sales@wannereng.com
Hydra-Cell.com

REGIONAL OFFICE

Wichita Falls, Texas USA
t: 940-322-7111
e: sales@wannereng.com

LATIN AMERICAN OFFICE

São Paulo, Brazil
t: +55 (11) 99582-1969
e: mmagoni@wannereng.com
Hydra-Cell-Pumps.com.br

WANNER INTERNATIONAL, LTD.

UNITED KINGDOM

Church Crookham,
Hampshire UK GU52 8BF
t: +44 (0) 1252 816847
e: support@wannerint.com
Hydra-Cell.co.uk

WANNER PUMPS, LTD.

Kowloon, HONG KONG

t: +852 3428 6534
e: sales@wannerpumps.com
WannerPumps.com

Shanghai, CHINA

t: +86-21-6876 3700
e: sales@wannerpumps.com
WannerPumps.com

WANNER INDIA PVT. LTD.

Mumbai, INDIA

t: +91 (22) 22044766
e: support@wannerindia.com
WannerIndia.com

