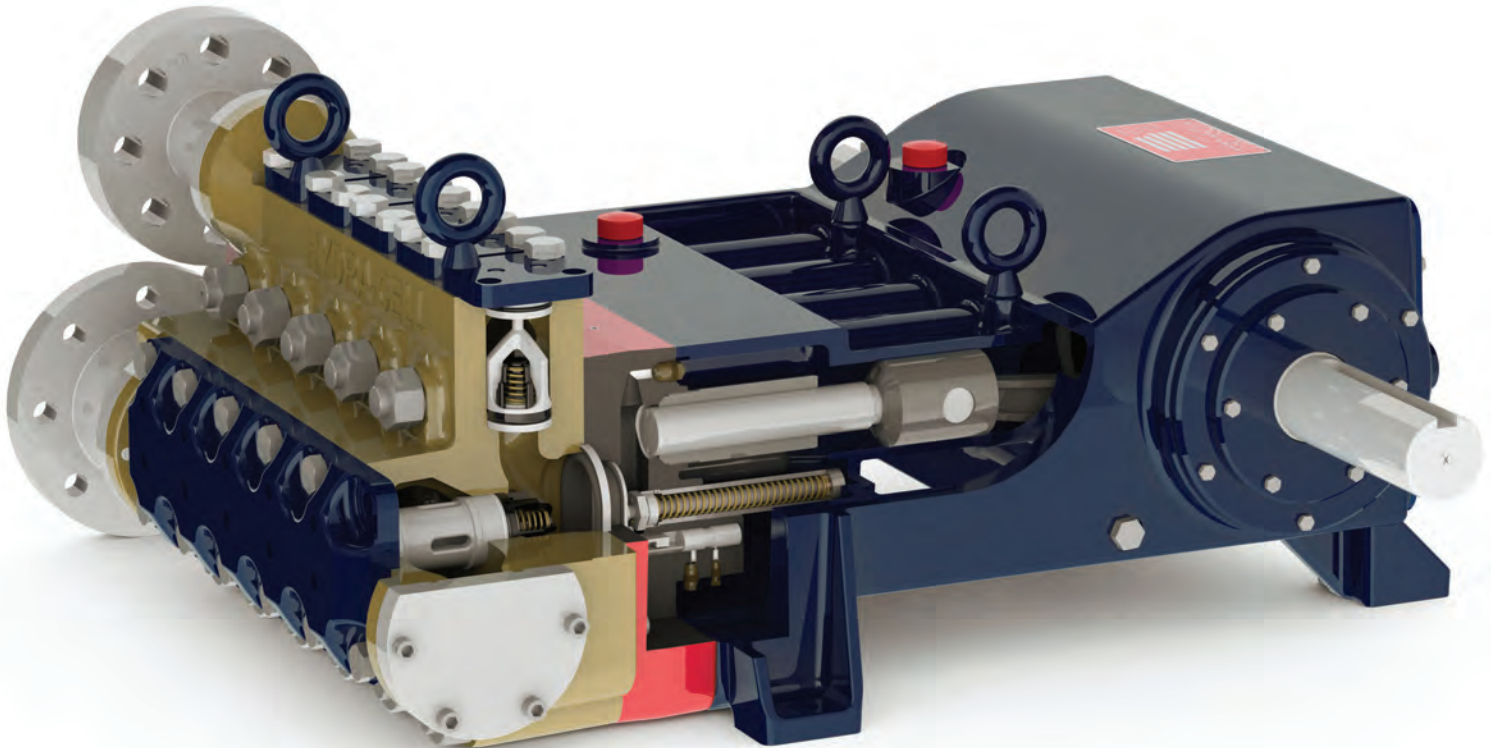


Q155 Series Medium Pressure Models Q155K & Q155M

Maximum Flow Rate: 78 gpm (295.3 l/min)
Maximum Pressure: 3500 psi (241 bar)

Hydra-Cell[®]
Seal-less Pumps



- Seal-less design eliminates 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
- Rugged construction for long life with minimal maintenance
- Compact design and double-ended shaft provide a variety of installation options

QI55 Medium Pressure Performance

Capacities

Flow

Model	Max. Input rpm	Maximum Flow gpm	Maximum Flow l/min
QI55K	450	78.0	295.3
QI55M	450	66.8	252.9

Consult factory when operating below 200 rpm.

Pressure

Maximum Inlet Pressure

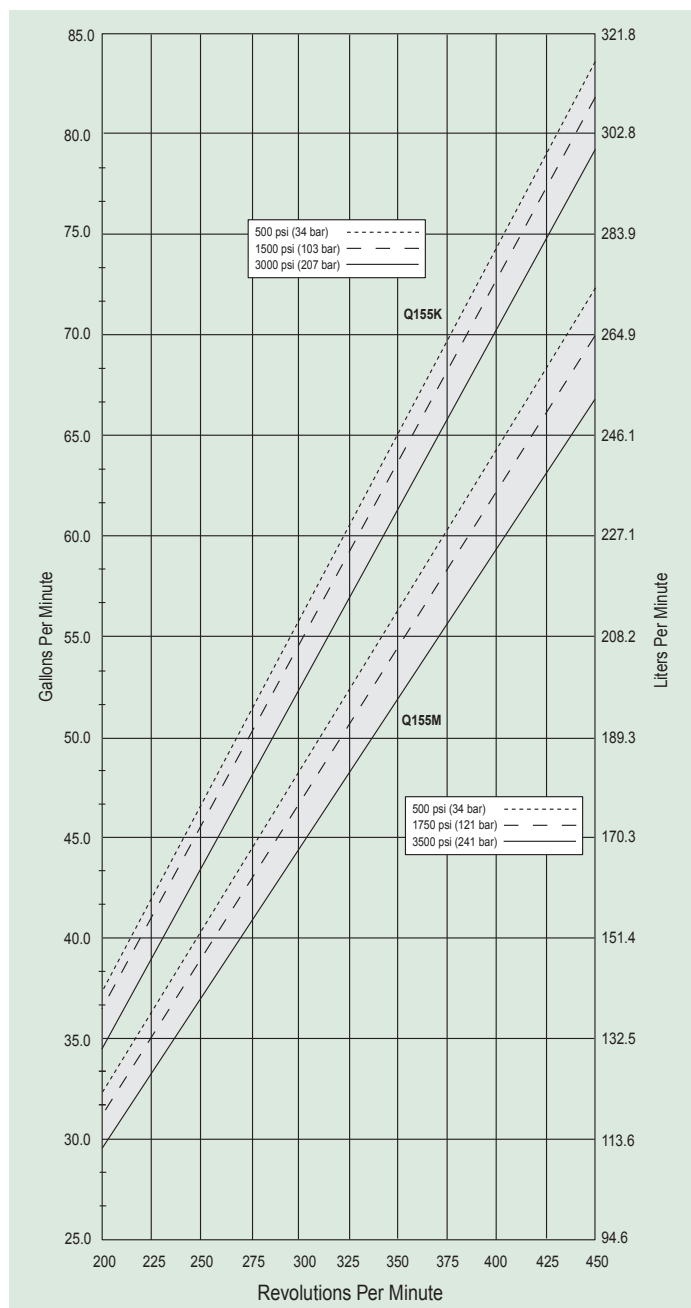
500 psi (34 bar)

Maximum Discharge Pressure

QI55K 3000 psi (207 bar)

QI55M 3500 psi (241 bar)

Maximum Flow at Designated Pressure



Due to Wanner Engineering continuous improvement practices, performance data and specifications may change without notice.

Q155 Medium Pressure Specifications

Flow Capacities

	Pressure psi (bar)	rpm	gpm	l/min
Q155K	3000 (207)	450	78.0	295.3
Q155M	3500 (241)	450	66.8	252.9

Delivery

	Pressure psi (bar)	gal/rev	liters/rev
Q155K	500 (34)	0.185	0.700
	1500 (103)	0.181	0.685
	3000 (207)	0.173	0.654
Q155M	500 (34)	0.201	0.760
	1750 (121)	0.197	0.747
	3500 (241)	0.193	0.731

rpm

Maximum:	450
Minimum:	200 (Consult factory for speeds less than 200 rpm)

Maximum Discharge Pressure

Metallic Heads:	Q155K	3000 psi (207 bar)
	Q155M	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 Left or Right Side

Inlet Ports Weld-On: 4" / SCH. 40 4" NPT

Discharge Ports Weld-On: 2" / SCH. 160 2" NPT

Shaft Diameter 3 inch (76.2 mm)

Shaft Rotation Uni-directional (see rotation arrows)

Oil Capacity 32 US quarts (30.3 liters) 10W30 standard-duty oil

Weight

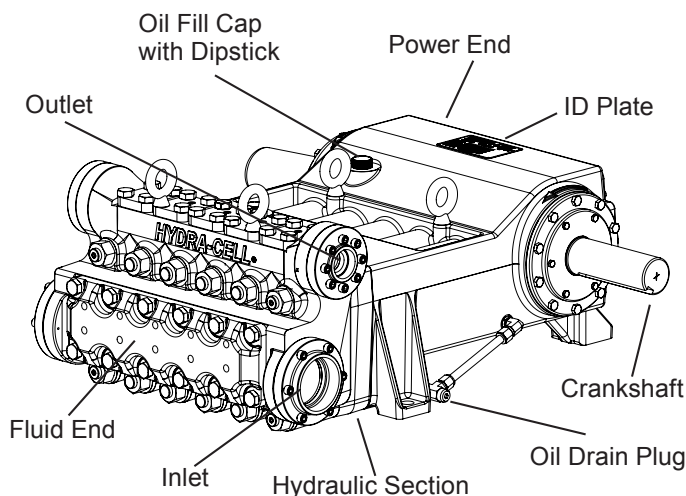
Metallic Heads:	1700 lbs. (3740 kg)
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Fluid End Materials

Manifold:	Nickel Aluminum Bronze (NAB)
	316 Stainless Steel
Diaphragm/Elastomers:	FKM, Buna-N
Diaphragm Follower Screw:	316 Stainless Steel
Valve Spring Retainer:	17-7 PH Stainless Steel
	Polypropylene
Check Valve Spring:	PVDF
	Elgiloy
Valve Disc/Seat:	Tungsten Carbide
	17-4 Stainless Steel
	Hastelloy C
Outlet Valve Retainer:	316 Stainless Steel
Plug-Outlet Valve Port:	316 Stainless Steel
Inlet Valve Retainer:	316 Stainless Steel

Power End Materials

Crankshaft:	Forged Q&T Alloy Steel
Connecting Rods:	Ductile Iron
Crossheads:	12L14 Steel
Crankcase:	Ductile Iron
Bearings:	Spherical Roller/Journal (outer mains)
	Steel Backed Babbitt (crankpin)
	Bronze (wrist pin, center mains)



Net Positive Suction Head (NPSHr)

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.

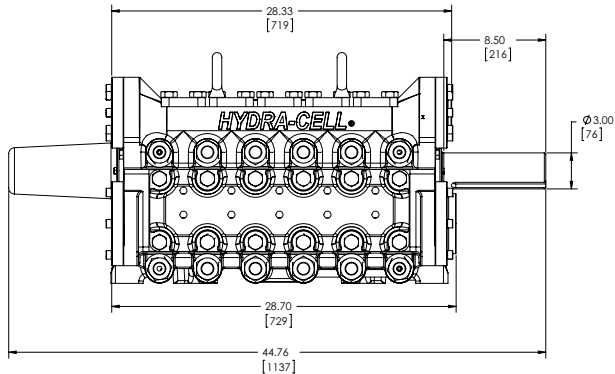
Attention!

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.

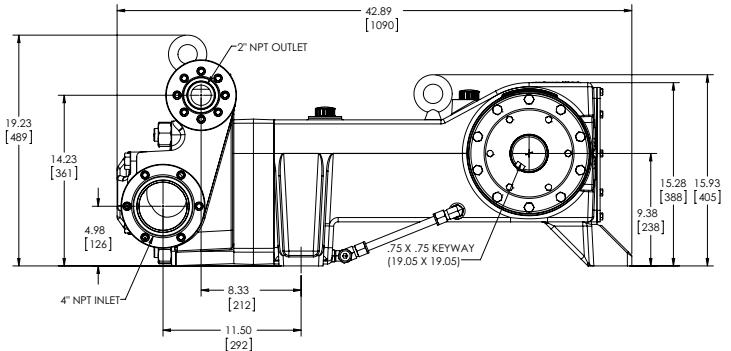
QI55 Medium Pressure Dimensions

Threaded Version Inches (mm)

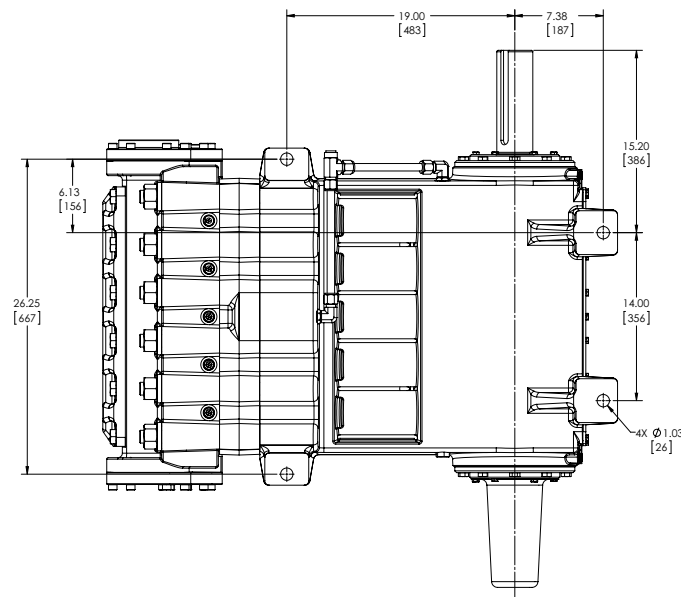
Front View



Side View



Bottom View



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