

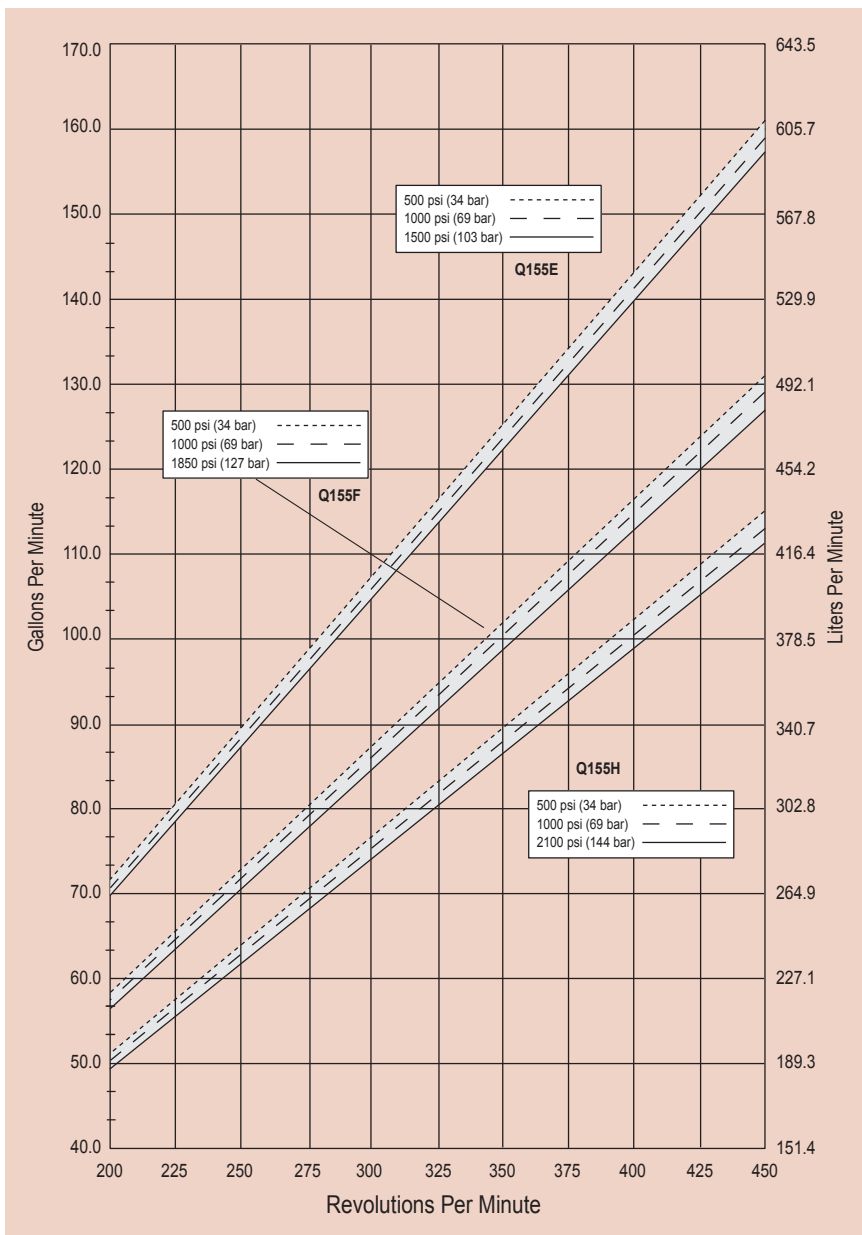
Q155 Low Pressure Performance

Capacities

Flow				Pressure	
Model	Max. Input rpm	Maximum Flow gpm	Maximum Flow l/min	Maximum Inlet Pressure 500 psi (34 bar)	
Q155E	450	157	595	Maximum Discharge Pressure Q155E 1500 psi (103 bar) Q155F 1850 psi (127 bar) Q155H 2100 psi (144 bar)	
Q155F	450	127	490		
Q155H	450	111	421		

Consult factory when operating below 200 rpm.

Maximum Flow at Designated Pressure



Q155 Low Pressure Specifications

Flow Capacities

	Pressure psi (bar)	rpm	gpm	l/min
Q155E	1500 (103)	450	157	595
Q155F	1850 (127)	450	127	490
Q155H	2100 (144)	450	111	421

Delivery

	Pressure psi (bar)	gal/rev	liters/rev
Q155E	500 (34)	0.358	1.354
	1000 (69)	0.353	1.338
	1500 (104)	0.350	1.323
Q155F	500 (34)	0.291	1.102
	1000 (69)	0.287	1.085
	1850 (127)	0.282	1.068
Q155H	500 (34)	0.256	0.967
	100 (69)	0.251	0.951
	2100 (144)	0.247	0.936

rpm

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

Maximum Discharge Pressure

Metallic Heads:	Q155E	1500 psi (103 bar)
	Q155M	1850 psi (127 bar)
	Q155H	2100 psi (144 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: 3" / SCH. 80

3" 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

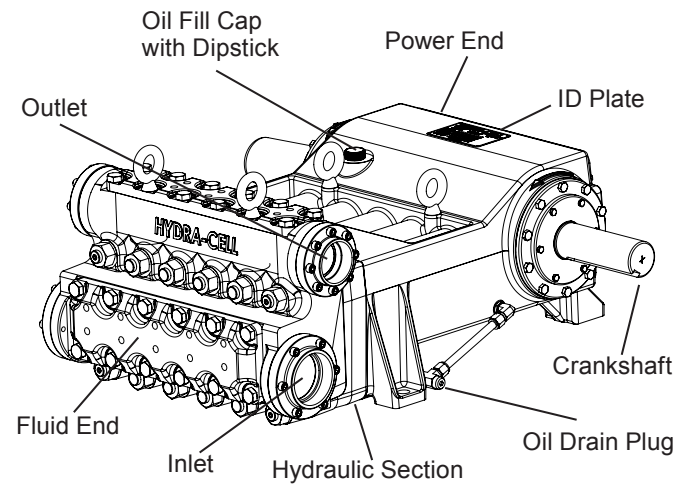
Metallic Heads: 1700 lbs. (771 kg)

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
	316 SST
	Hastelloy C
Check Valve Spring:	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)



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.

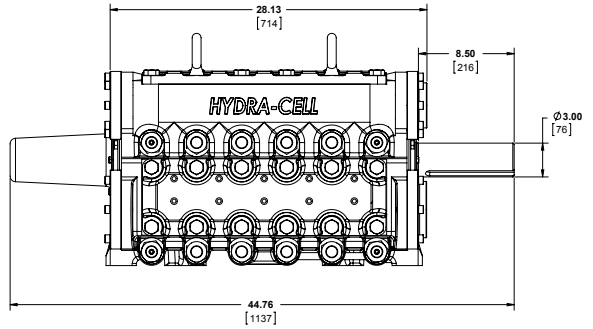
Attention!

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.

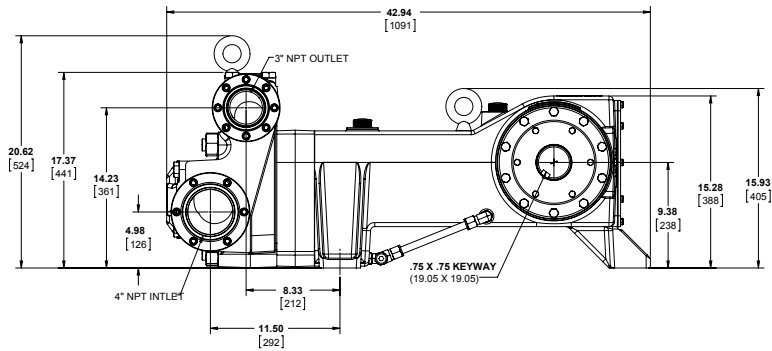
QI55 Low Pressure Representative Drawings

Threaded Version Inches (mm)

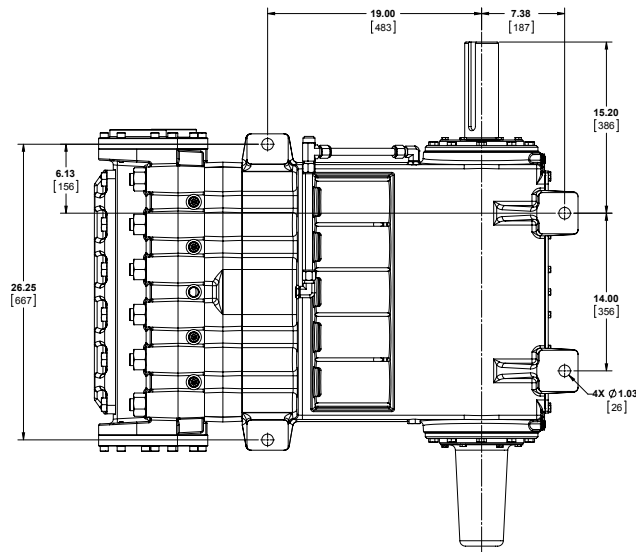
Front View



Side View



Bottom View



Q155 Low Pressure **How to Order**

Ordering Information



A complete Q155 Series Low Pressure Model contains 13 digits including 9 customer-specified design and materials options, for example: (TBP)

Low Pressure

Digit	Order Code	Description
1-4	Q155	Pump Configuration Shaft-driven
5	E F H	Performance Max. 157 gpm (595 l/min) @ 1500 psi (103 bar) Max. 127 gpm (490 l/min) @ 1850 psi (127 bar) Max. 111 gpm (421 l/min) @ 2100 psi (144 bar)
6	A R	Pump Head Version NPT Threaded Ports ANSI Flange Ports
7	D S	Pump Head Material Nickel Aluminum Bronze (NAB) 316 Stainless Steel
8	G T	Diaphragm & O-ring Material FKM Buna-N
9	D H T	Valve Seat Material Tungsten Carbide 17-4 Stainless Steel Hastelloy C
10	D F T	Valve Material Tungsten Carbide 17-4 Stainless Steel Hastelloy C
11	E	Valve Springs Elgiloy
12	H S T	Valve Spring Retainers 17-7 PH Stainless Steel 316 SST Hastelloy C
13	A	Hydra-Oil 10W30 standard-duty oil

*Tungsten Carbide valve seat and disc are a matched set and must be purchased together.