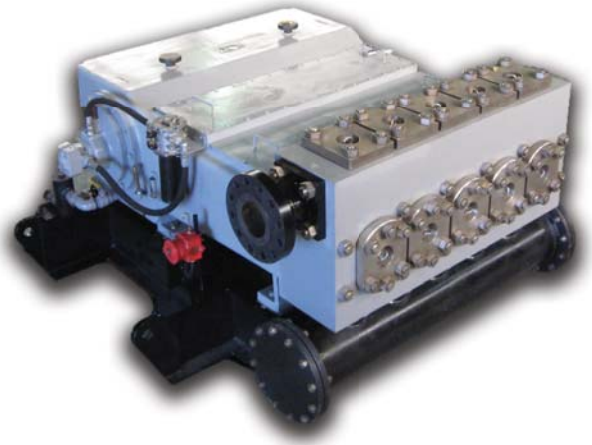


Q700 Pump

Pump Specifications

Rated (HP, kW)	700	522
Stroke length (in., mm)	7.874	200
Maximum discharge pressure (PSI, Bar)		
A - Fluid Cylinder	5,960	411
B - Fluid Cylinder	3,040	210
C - Fluid Cylinder	1,650	114
D - Fluid Cylinder	1,230	85
E - Fluid Cylinder	950	66
Rated rod load (lb, kg)	29,250	13,295
API-674 speed, RPM	215	
Maximum speed, RPM	250 (intermittent)	
Minimum speed, RPM	100	
Crankshaft dimensions (in., mm)		
Diameter	8.27	210
Length (both sides)	11.81	300
Oil capacity (gal, l)		
Pump	73	275
Weight (lb, kg); estimates only		
Pump	17,000	7,712
Mechanical efficiency	90%	



Flange Connections

Fluid Cylinder	Standard Connections	
	Inlet	Discharge
A	6" CL150 RF	3" NPT
B	8" CL150 RF	4" NPT
C	10" CL150 RF	6" CL900 RF
D	12" CL150 RF	6" CL900 RF
E	14" CL150 RF	8" CL600 RF

Applications

- Amine gas sweetening
- Methanol injection
- Water injection
- Chemical injection
- Glycol gas dehydration
- Light hydrocarbon transportation
- Crude Oil Transfer
- Polymer flood
- Produced water disposal
- Steam boiler feed
- Hydrostatic testing
- Ammonia
- Horizontal directional drilling
- Hot-oil truck injection

Standard Equipment

- 316 Stainless Steel, forged duplex stainless steel or forged carbon steel fluid ends
- Tungsten carbide coated plungers over stainless steel base or solid ceramic plungers
- Multiple plunger packing arrangements offered

Optional Accessories

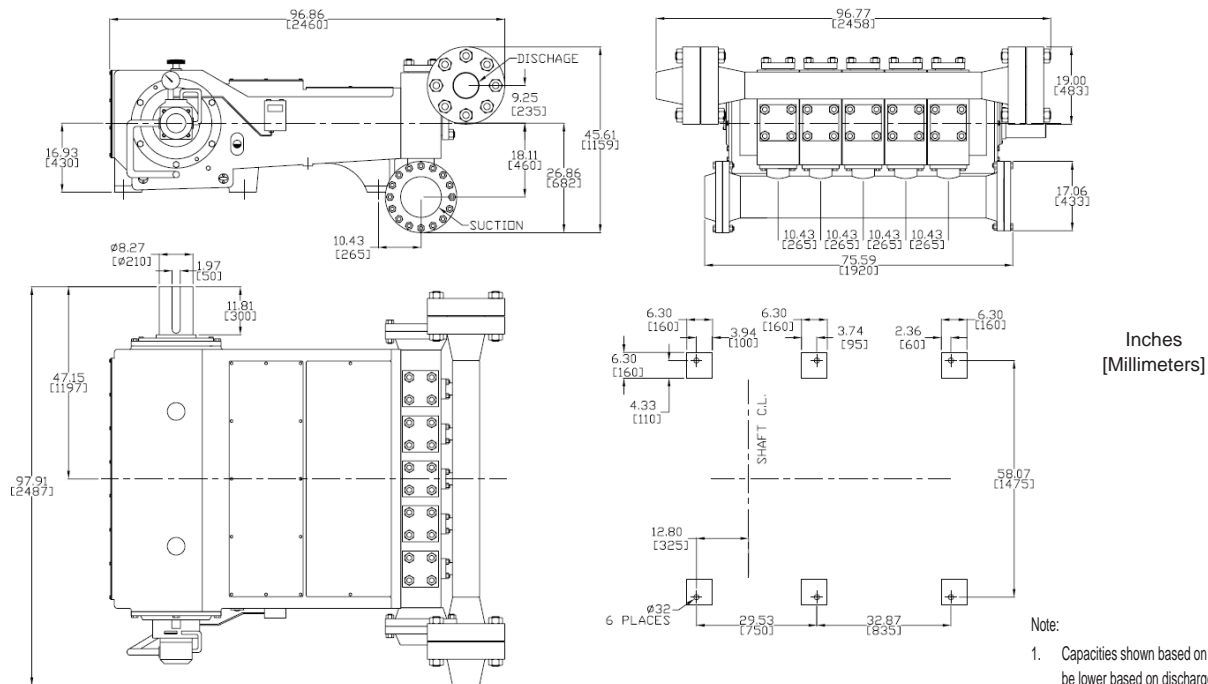
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages
- Ported stuffing boxes and leak detection systems offered for H₂S or light fluids
- Auxillary lube kit (slow speed ket allows pump to be turned down to 50 rpm)

Q700 Pump

Performance Ratings

Pump Model	Plunger Size (IN)	Displacement (Gal/Rev)	Rated Pressure (PSI)	Rated Capacity (GPM)			Fluid Cylinder
				Min 100 RPM	API 674 215 RPM	Intermittent	
Q700 - 2.500 IN	2.50	0.8366	5,960	83.7	179.9	209.2	A
Q700 - 2.750 IN	2.75	1.0123	4,920	101.2	217.6	253.1	A
Q700 - 3.000 IN	3.00	1.2047	4,140	120.5	259.0	301.2	A
Q700 - 3.500 IN	3.50	1.6398	3,040	164.0	352.5	409.9	B
Q700 - 4.000 IN	4.00	2.1417	2,330	214.2	460.5	535.4	B
Q700 - 4.500 IN	4.50	2.7106	1,840	271.1	582.8	677.7	B
Q700 - 4.750 IN	4.75	3.0202	1,650	302.0	649.3	755.0	C
Q700 - 5.000 IN	5.00	3.3464	1,490	334.6	719.5	836.6	C
Q700 - 5.500 IN	5.50	4.0492	1,230	404.9	870.6	1,012.3	D
Q700 - 6.000 IN	6.00	4.8189	1,030	481.9	1,036.1	1,204.7	D
Q700 - 6.250 IN	6.25	5.2288	950	522.9	1,124.2	1,307.2	E
Q700 - 6.500 IN	6.50	5.6555	880	565.5	1,215.9	1,413.9	E
Q700 - 7.000 IN	7.00	6.5590	760	655.9	1,410.2	1,639.8	E

General Dimensions (sizing dimensions not for construction purposes)



Power Required: $HP = \frac{GPM \times PSI}{1543}$

Note:

1. Capacities shown based on 100% volumetric efficiency. Actual capacities will be lower based on discharge pressures and fluid properties.
2. Maximum continuous and intermittent duty speeds are based on pumping fluids with viscosities similar to water. Consult Weatherford for speed de-rating guidelines for higher viscosity fluids.
3. Drawings shown are typical and should not be used for fabrication purposes.
4. Special designs and materials available for higher temperature operation.
5. Standard models shown. Other sizes and configurations may be available on request. Not all plunger sizes may be available in all materials. Consult Weatherford for more details.