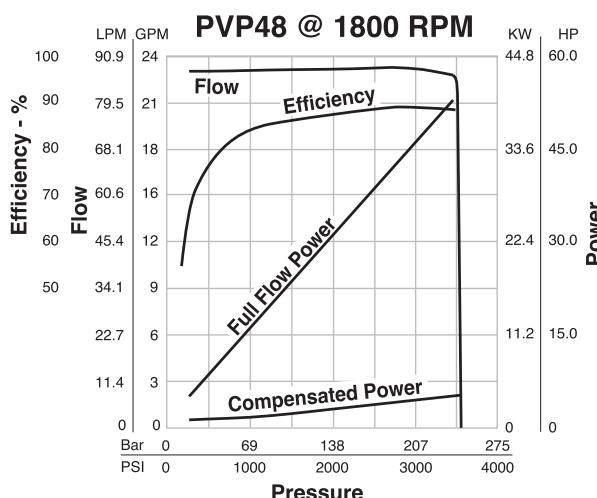
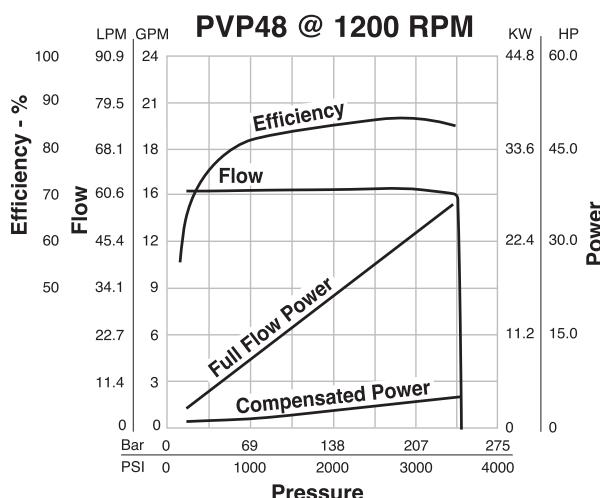
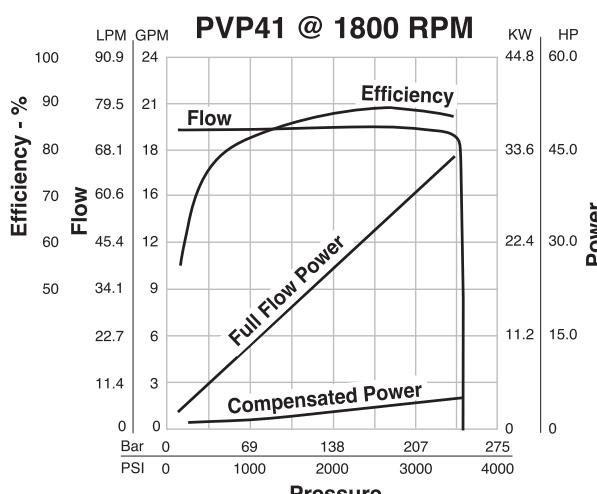
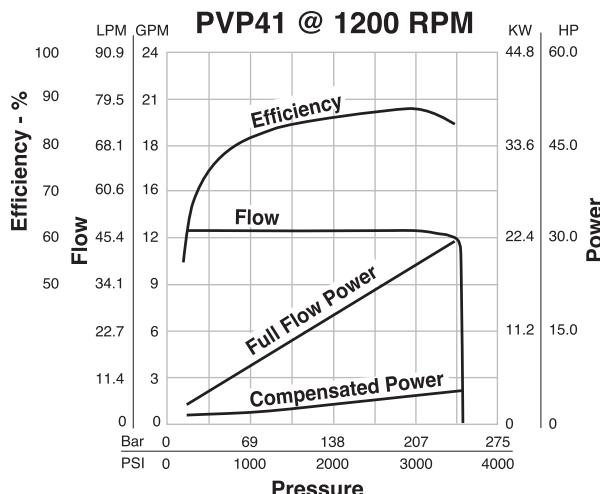


\* Keyed option only available with UNC threads.

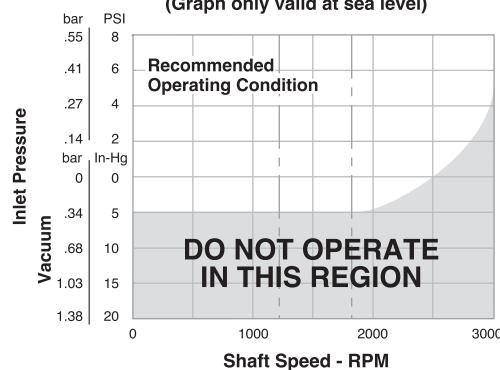
**Typical Performance Data - Fluid: Standard Hydraulic Oil 100 SSU @ 49°C (120°F)**

NOTE: The efficiencies and data in the graph are good only for pumps running at 1200 or 1800 RPM and stroked to maximum. To calculate approximate horsepower for the other conditions, use the following formula:

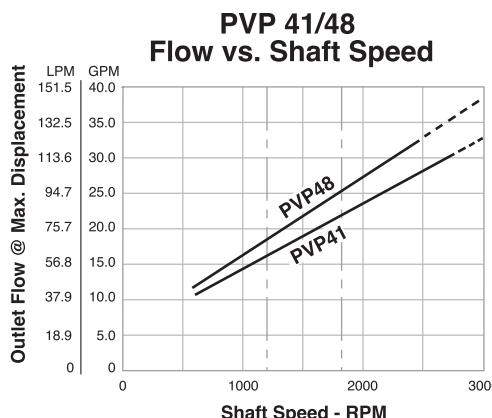
$$HP = \left[ \frac{Q \times (PSI)}{1714} \right] + (CHp)$$

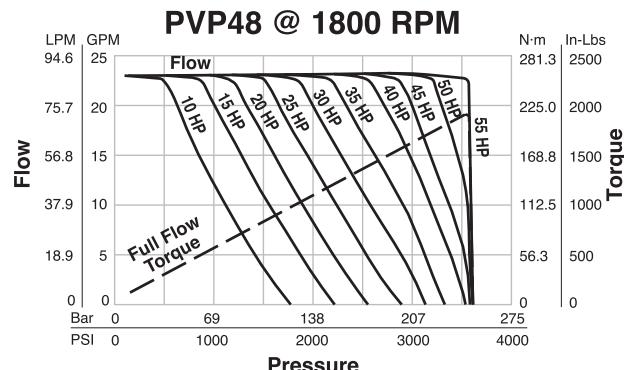
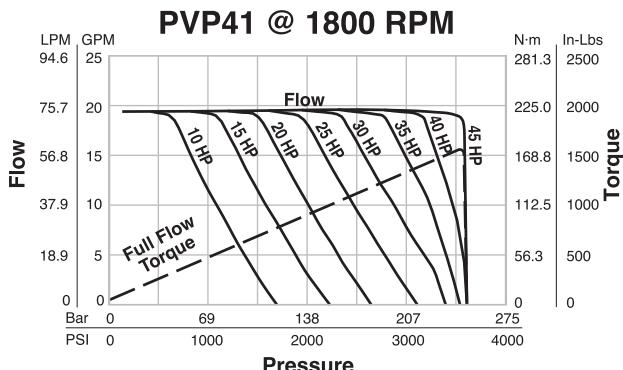
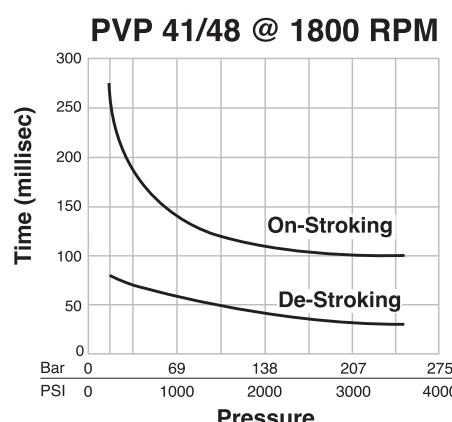
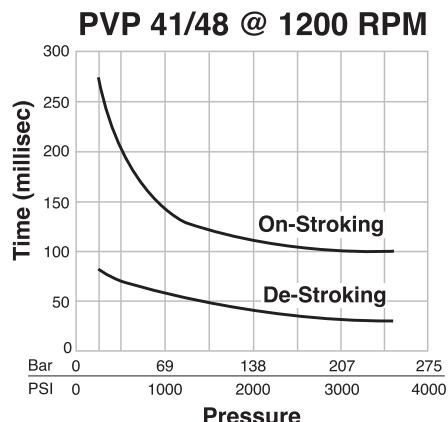
Actual GPM is directly proportional to drive speed and maximum volume setting. Flow loss, however, is a function of pressure only.

WHERE:  
**PVP 41/48**  
**Inlet Characteristics at Full Displacement**  
(Graph only valid at sea level)

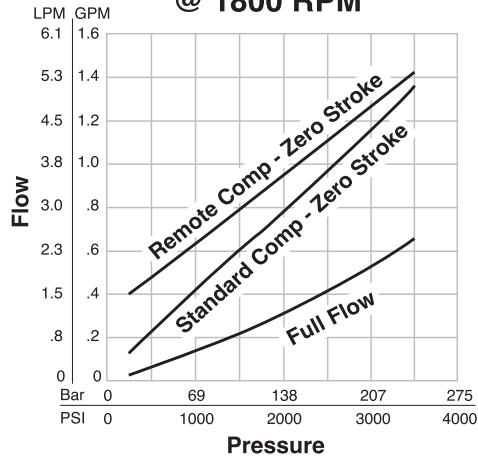
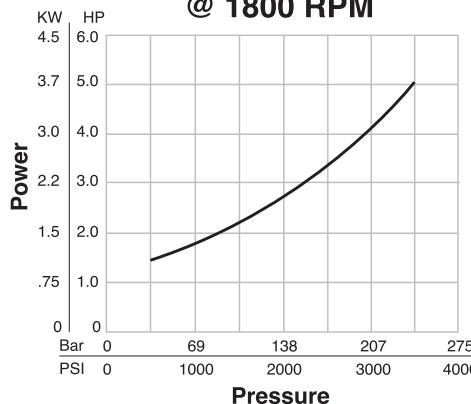


- Q = Actual Output Flow in GPM
- PSI = Pressure At Pump Outlet
- CHp = Input Horsepower @ Full compensation  
@ 1800 RPM (from graph read at  
operating pressure)



**Typical Performance Data - Fluid: Standard Hydraulic Oil 100 SSU @ 49°C (120°F)****Power Control****Response Times**

**PVP 41/48**  
**Approximate Case Drain Flow**  
**@ 1800 RPM**

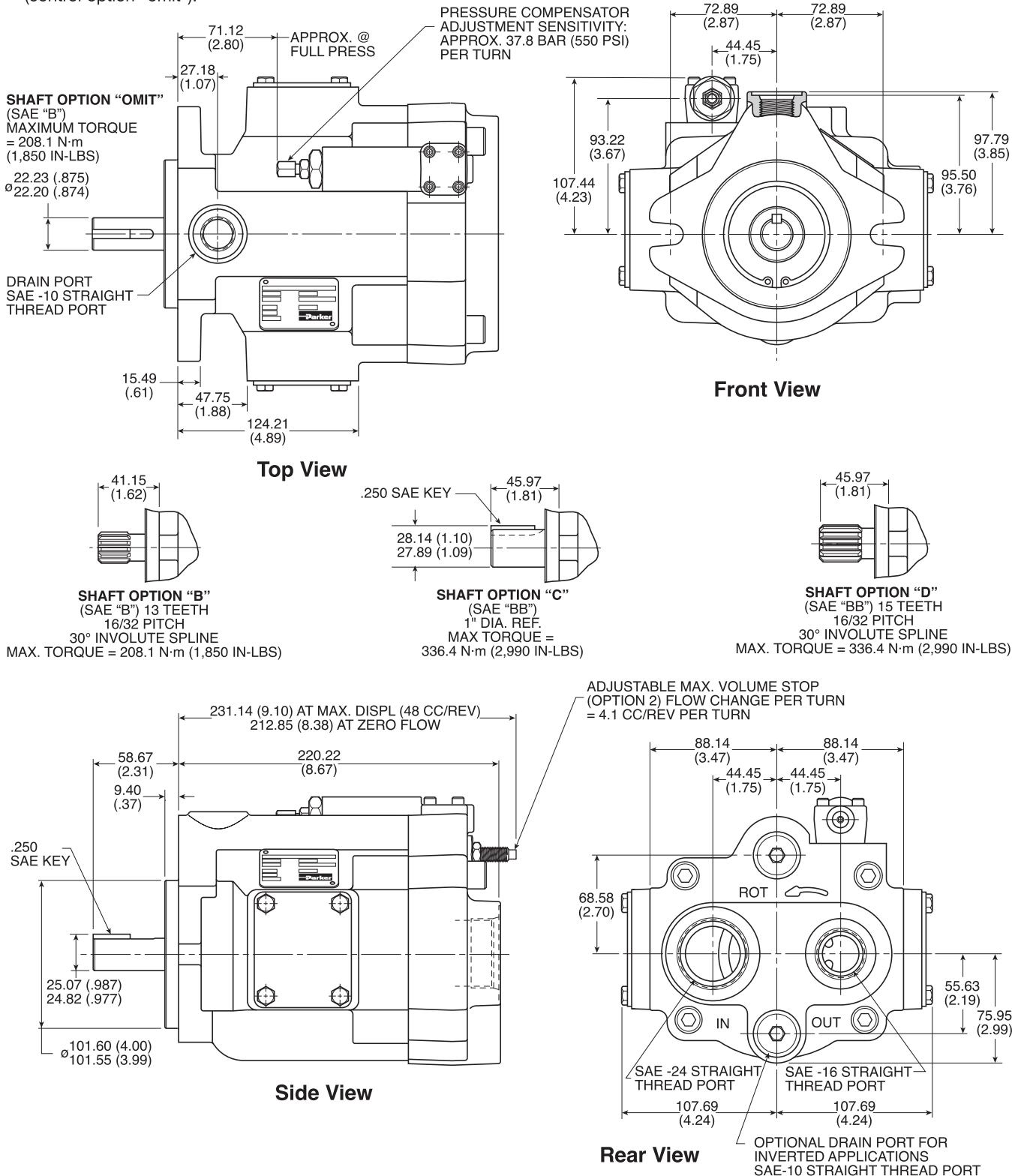
**Compensated Power  
@ 1800 RPM**

**Rear Ported Pump Dimensions**

\* Inch equivalents for millimeter dimensions are shown in (\*\*).

**NOTES:**

1. Righthand (CW) rotation pump shown. Lefthand (CCW) rotation pump will have inlet and outlet ports reversed.
2. Pump shown with standard pressure compensator (control option "omit").



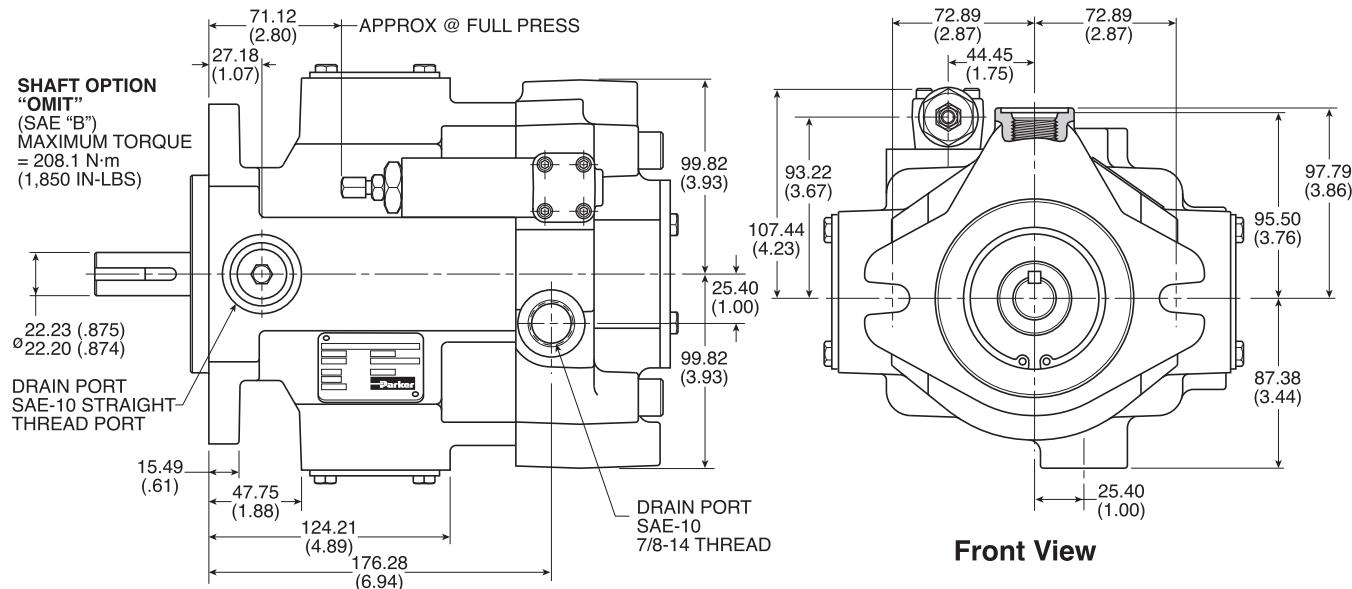
**Side Ported – Options 2 & 3 Dimensions**

\* Inch equivalents for millimeter dimensions are shown in (\*\*).

**NOTES:**

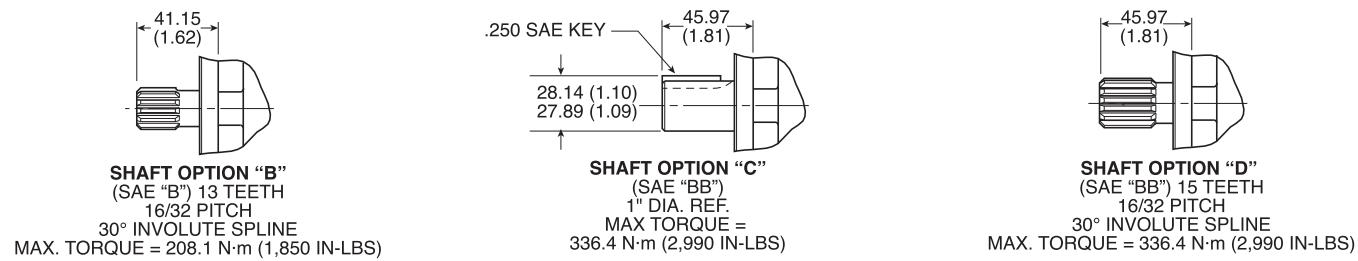
1. Righthand (CW) rotation pump shown. Lefthand (CCW) rotation pump will have inlet and outlet ports reversed.
2. Pump shown with standard pressure compensator (control option "omit").

Port Size		
Option	Inlet	Outlet
<b>2</b>	1-1/2" SAE 4-Bolt Flange 1/2-13 Thread Standard Pressure Series (Code 61)	1" SAE 4-Bolt Flange 3/8-16 Thread Standard Pressure Series (Code 61)
<b>3</b>	SAE-24 Straight Thread (1-7/8-12UN-2B)	SAE-16 Straight Thread (1-5/16-12UN-2B)



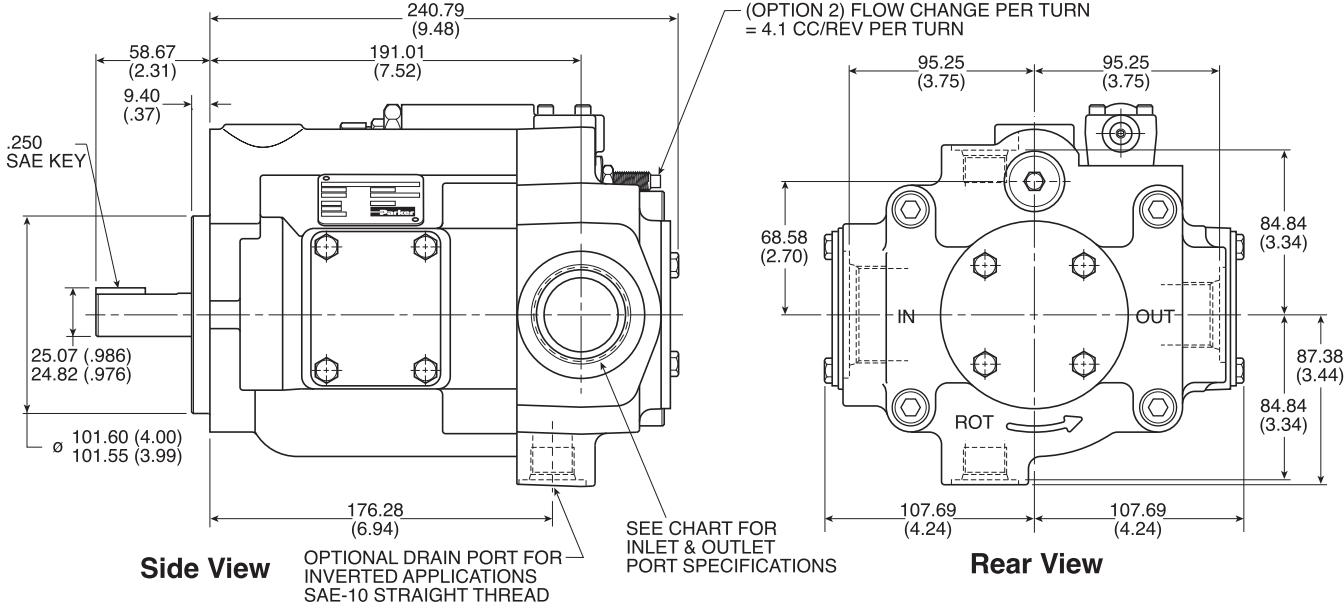
Front View

Top View



MAX. TORQUE = 208.1 N·m (1,850 IN-LBS)

MAX. TORQUE = 336.4 N·m (2,990 IN-LBS)



OPTIONAL DRAIN PORT FOR  
INVERTED APPLICATIONS  
SAE-10 STRAIGHT THREAD

SEE CHART FOR  
INLET & OUTLET  
PORT SPECIFICATIONS

**Side Ported – Option 9 Dimensions**

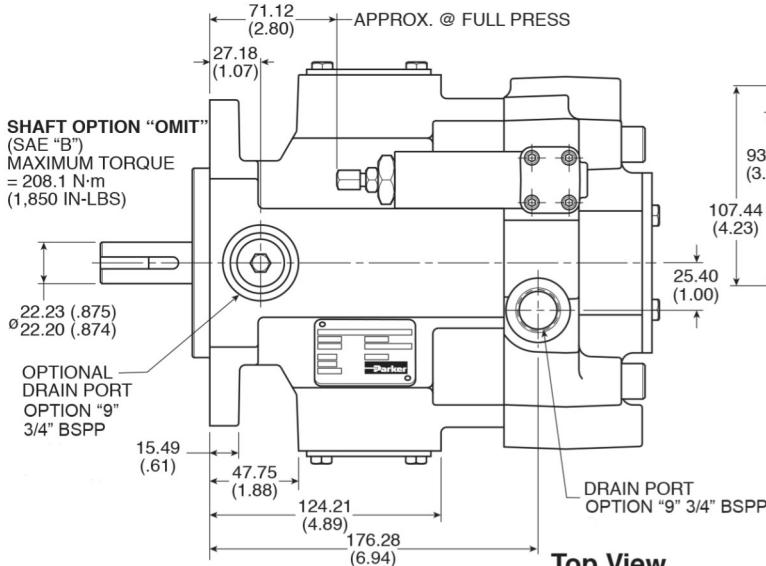
\* Inch equivalents for millimeter dimensions are shown in (\*\*).

**NOTES:**

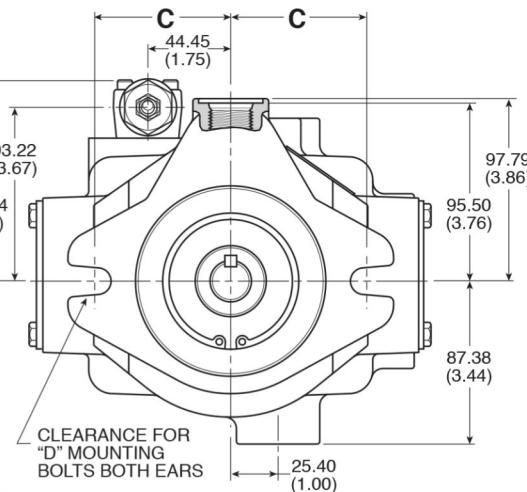
1. Righthand (CW) rotation pump shown. Lefthand (CCW) rotation pump will have inlet and outlet ports reversed.
2. Pump shown with standard pressure compensator (control option "omit").

Pilot Dimensions				
Shaft Option	A	B	C	D
Omit	101.60/101.55 (4.000/3.998)	9.40 .37	72.90 (2.87)	Ø 12.70 (.50)
B, C, D				

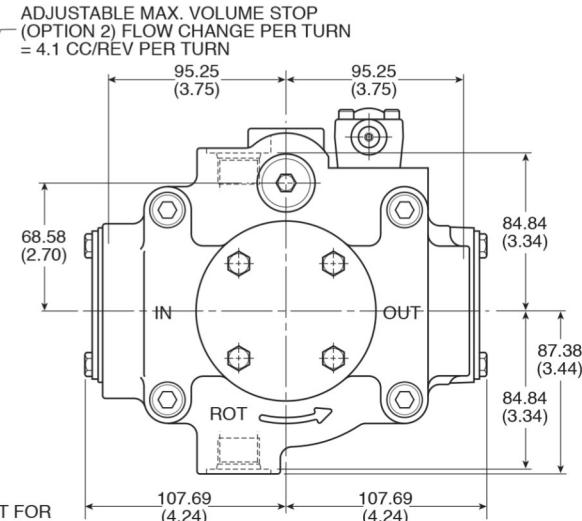
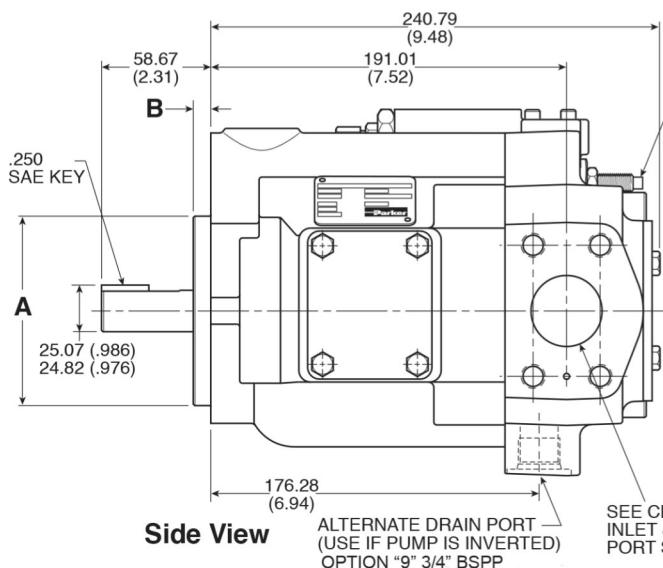
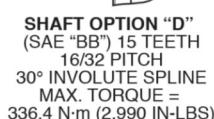
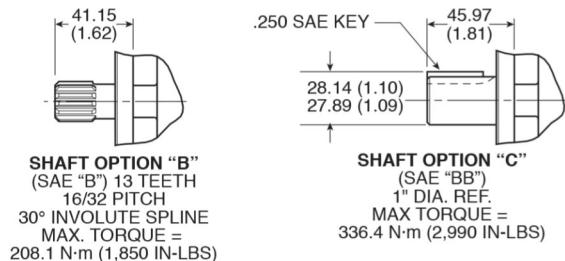
Inlet Port	Outlet Port
1-1/2" SAE 4-Bolt Flange M12 Thread Standard Pressure Series (Code 61)	1" SAE 4-Bolt Flange M10 Thread Standard Pressure Series (Code 61)



Top View



Front View



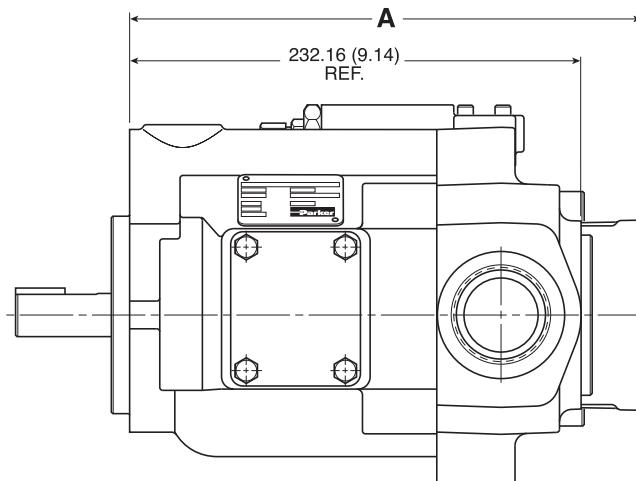
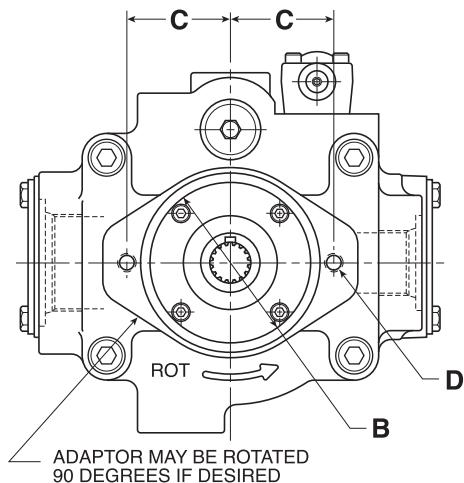
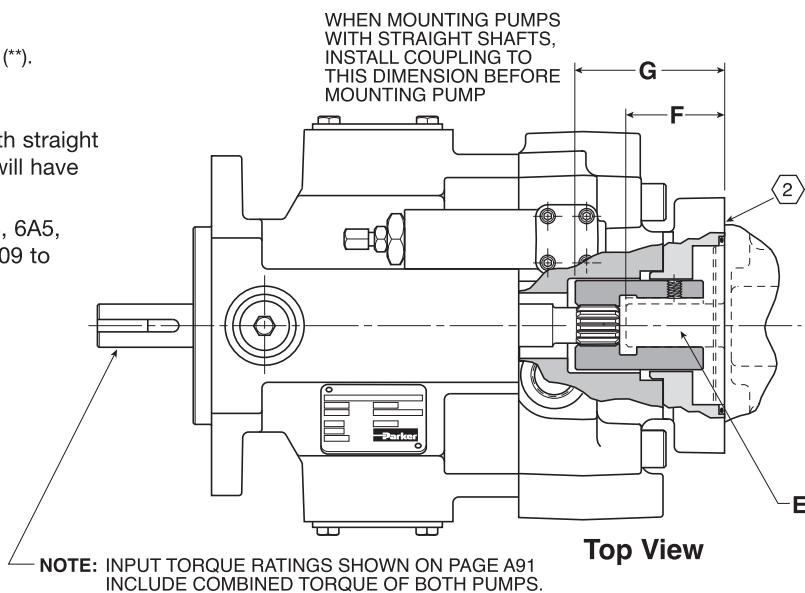
Rear View

**Thru-Shaft Pump Dimensions**

\* Inch equivalents for millimeter dimensions are shown in (\*\*).

**NOTES:**

1. Righthand (CW) rotation side ported pump with straight thread ports shown. Lefthand (CCW) pumps will have inlet and outlet ports reversed.
2. Later versions of Thru-Shaft options 6A2, 6A4, 6A5, 9A4 and 9A5, incorporate a gasket, P/N 801209 to seal on the rear pump rather than an o-ring.
3. Maximum torque transmitting capacity for rear pumps = 208.1 N•m (1,850 In-Lbs).

**Dimensions – Thru Shaft Options**

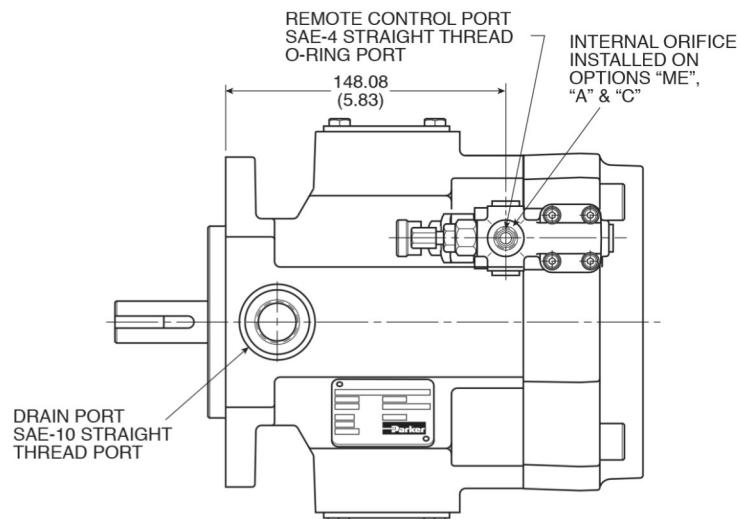
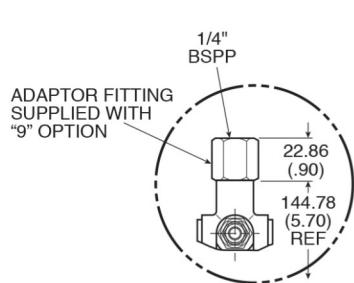
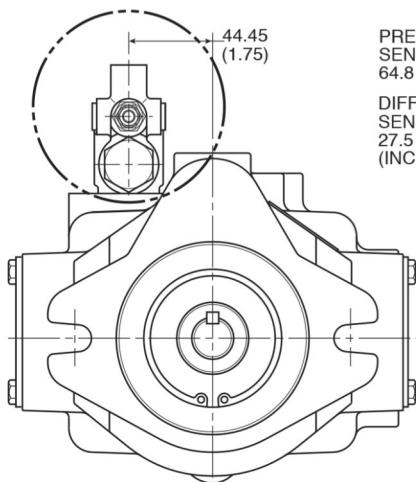
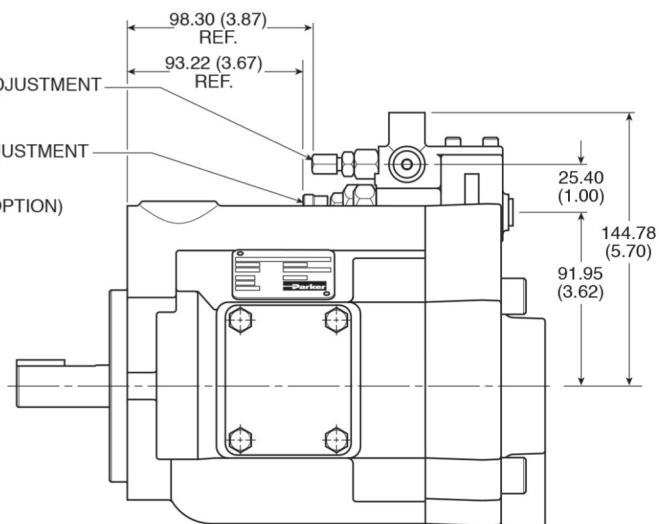
VARIATION	A	B	C	D	E	F	G
<b>6A1</b>	257.56 (10.14)	50.83/50.85 (2.001/2.002)	41.28 (1.63)	5/16-18UNC-2B	ø .50 X .125 Key	38.10 (1.50)	69.09 (2.72)
<b>6A2</b>	263.91 (10.39)	82.58/82.60 (3.251/3.252)	53.19 (2.09)	3/8-16UNC-2B	o/ .75 X .1875 Key	44.45 (1.75)	75.44 (2.97)
<b>6A4</b>	263.91 (10.39)	82.58/82.60 (3.251/3.252)	53.19 (2.09)	3/8-16UNC-2B	9 Tooth 16/32 Pitch	31.75 (1.25)	N/A
<b>6A5</b>	263.91 (10.39)	82.58/82.60 (3.251/3.252)	53.19 (2.09)	3/8-16UNC-2B	11 Tooth 16/32 Pitch	31.75 (1.25)	N/A
<b>6B1</b>	277.88 (10.94)	101.63/101.65 (4.001/4.002)	73.03 (2.88)	1/2-13UNC-2B	o/ .875 X .25 Key	58.67 (2.31)	89.41 (3.52)
<b>6B2</b>	277.88 (10.94)	101.63/101.65 (4.001/4.002)	73.03 (2.88)	1/2-13UNC-2B	o/ 1.00 X .25 Key	45.97 (1.81)	89.41 (3.52)
<b>6B3</b>	277.88 (10.94)	101.63/101.65 (4.001/4.002)	73.03 (2.88)	1/2-13UNC-2B	13 Tooth 16/32 Pitch	41.15 (1.62)	N/A
<b>6B4</b>	277.88 (10.94)	101.63/101.65 (4.001/4.002)	73.03 (2.88)	1/2-13UNC-2B	15 Tooth 16/32 Pitch	45.97 (1.81)	N/A
<b>9A4</b>	263.91 (10.39)	82.58/82.60 (3.251/3.252)	53.19 (2.09)	M10 x 1.50	9 Tooth 16/32 Pitch	31.75 (1.25)	N/A
<b>9A5</b>	263.91 (10.39)	82.58/82.60 (3.251/3.252)	53.19 (2.09)	M10 x 1.50	11 Tooth 16/32 Pitch	31.75 (1.25)	N/A
<b>9B3</b>	277.88 (10.94)	101.63/101.65 (4.001/4.002)	73.03 (2.88)	M12 x 1.75	13 Tooth 16/32 Pitch	41.15 (1.62)	N/A
<b>9B4</b>	277.88 (10.94)	101.63/101.65 (4.001/4.002)	73.03 (2.88)	M12 x 1.75	15 Tooth 16/32 Pitch	45.97 (1.81)	N/A

**Remote Compensator Control Pump Dimensions**

\* Inch equivalents for millimeter dimensions are shown in (\*\*).

**NOTES:**

1. Righthand (CW) rotation rear ported pump shown. Lefthand (CCW) pumps will have inlet and outlet ports reversed.
2. When controlling pump compensator pressure with remote relief valve, size relief valve to pass 1.89 LPM (.5 GPM).
3. Remote compensator shown on rear ported pump. Also available on side ported or thru-shaft option pumps.

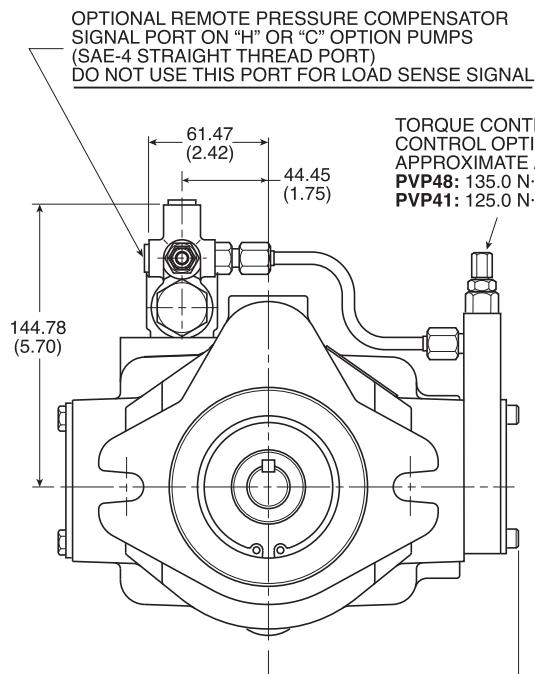
**Top View****Front View****Side View**

**Power (Torque) Control Pump Dimensions**

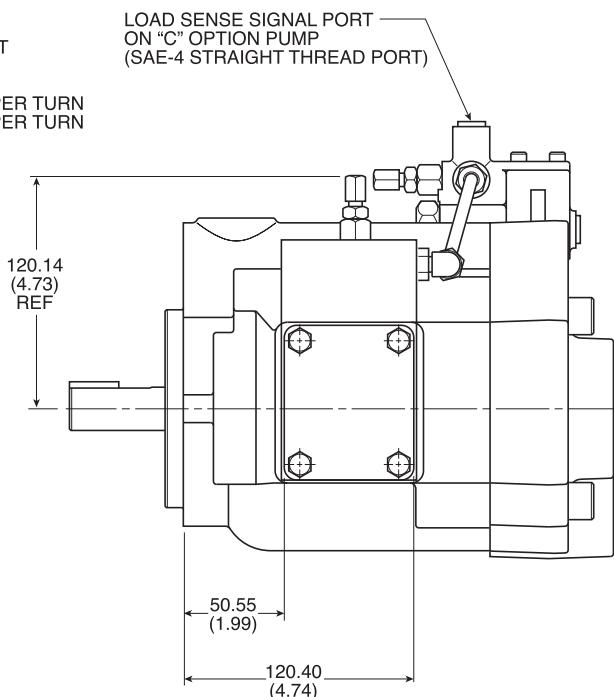
\* Inch equivalents for millimeter dimensions are shown in (\*\*).

**NOTES:**

1. Righthand (CW) ported pump shown.
2. Power (Torque) control shown with rear ported pump.  
Also available on side ported and thru-shaft pumps.
3. Power torque control does not change with rotation.



**TORQUE CONTROL ADJUSTMENT**  
CONTROL OPTIONS "H" & "C"  
APPROXIMATE / SENSITIVITY:  
**PVP48:** 135.0 N·m (1200 IN-LBS) PER TURN  
**PVP41:** 125.0 N·m (1000 IN-LBS) PER TURN

**Front View****Side View**