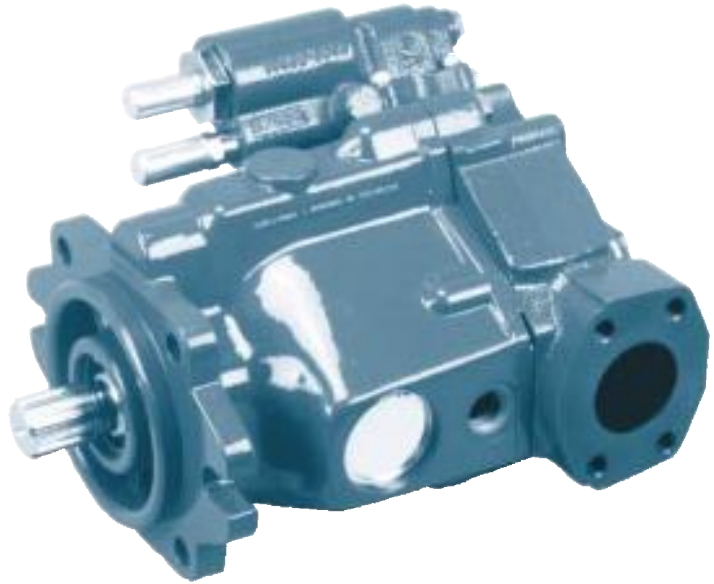
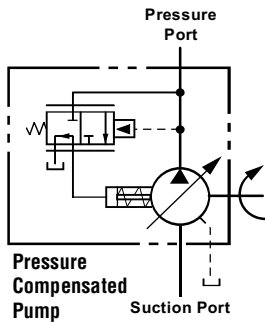
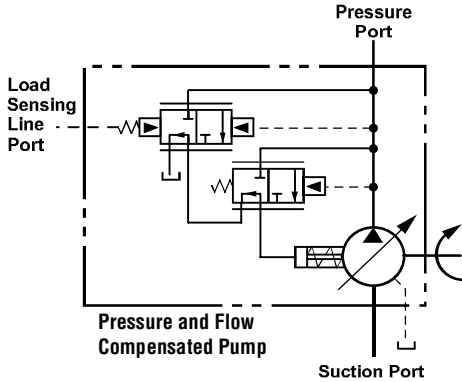


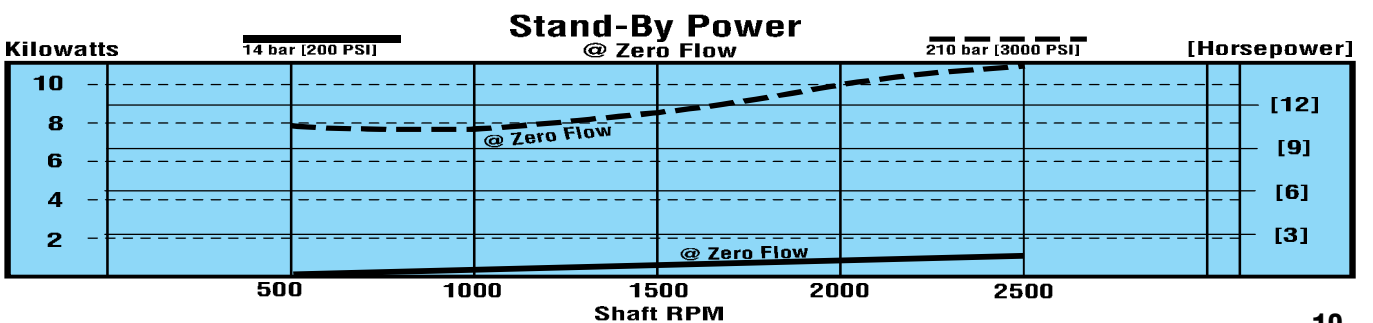
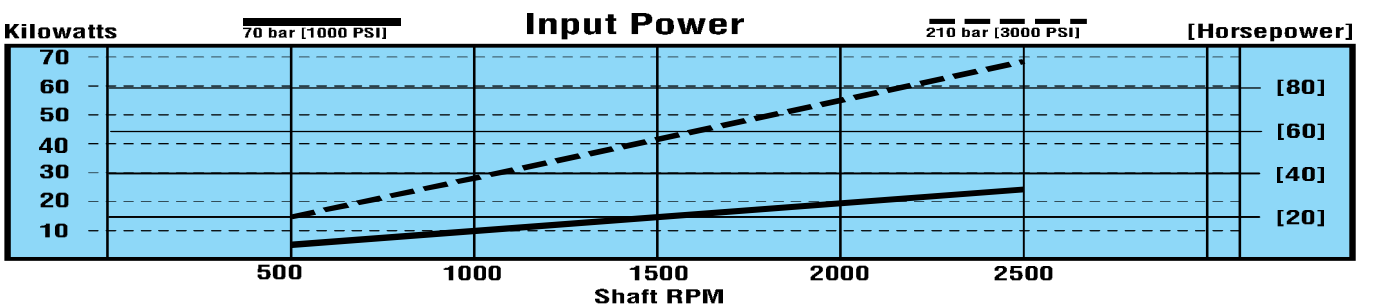
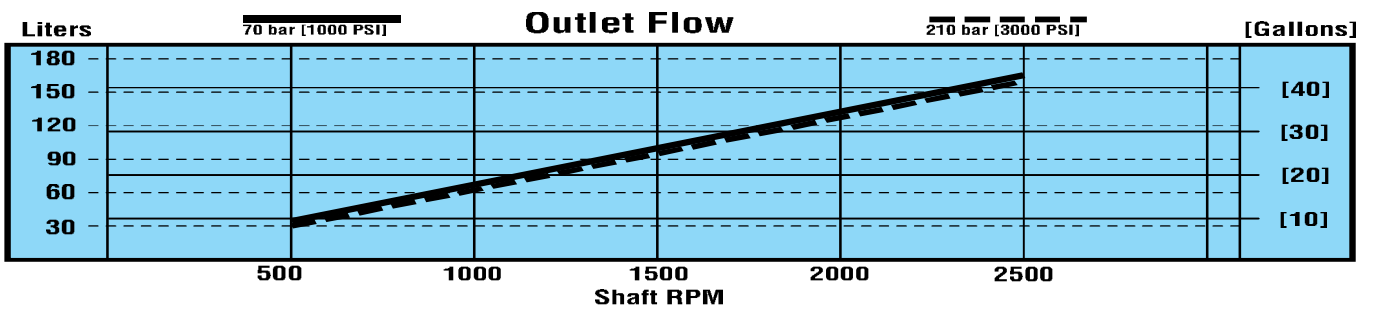
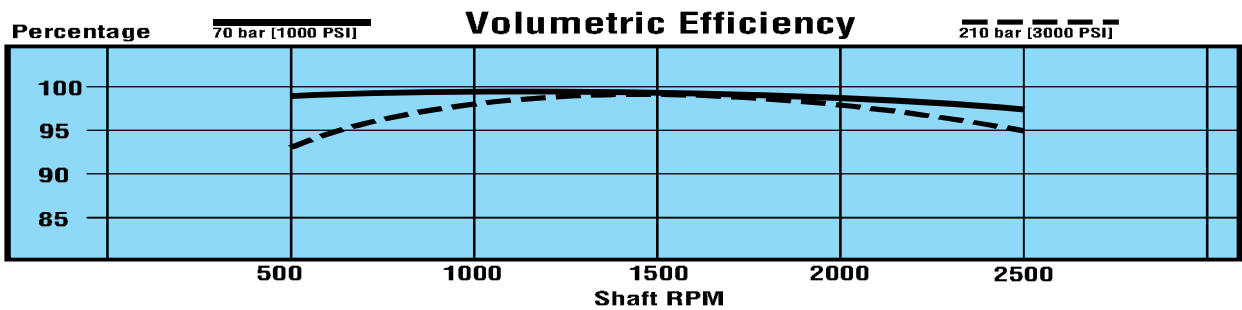
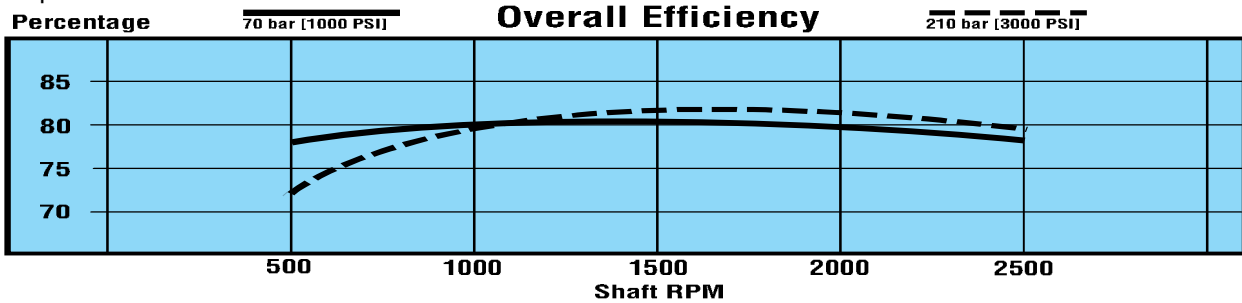
# Model 70523, 69 cm<sup>3</sup>/r [4.21 in<sup>3</sup>/r]



Model 70523		
Specification	Metric Units	U.S. Units
Mounting Flange	2 and/or 4 Bolt SAE "C" Mount	
Maximum Displacement / Rev	0 to 69 cm <sup>3</sup> /r	0 to 4.21 in <sup>3</sup> /r
Flow @ Rated Speed and PSI	159 l/min.	42 GPM
Maximum Rated Speed	2500 RPM	2500 RPM
Continuous Rated Pressure	210 bar	3000 PSI
Maximum Intermittent Pressure	310 bar	4500 PSI
Continuous Allowable Case Pressure	2 bar	25 PSI
Maximum High Pressure Setting @ Zero Flow	Std. 210 bar	Std. 3000 PSI
Low Pressure Setting @ Zero Flow	Std. 14 bar	Std. 200 PSI
Compensator Response @ Rated PSI and RPM	35 mil. sec.	35 mil. sec.
Compensator Recovery @ Rated PSI and RPM	125 mil. sec.	125 mil. sec.
Maximum Continuous Inlet Vacuum	0,94 bar absolute	2 in. Hg.
Max. Thrust Load Into Pump and Shaft Side Load, for Input Shaft.	Consult an Eaton representative and/or Eaton engineering	
Maximum Continuous Inlet Temperature	107°C	225° F
Minimum Operating Temperature	-29° C	-20° F
Weight per single pump	35,4 kg	78 lbs.

# Model 70523 Performance Data

The charts below are representative of a 69 cm<sup>3</sup>/r [4.21 in<sup>3</sup>/r] Pressure-Flow Compensated Piston Pump. The tests were run at an oil temperature of 82°C [180°F] with viscosity 7 - 9 cSt [50 - 54 SUS] and the pump at maximum displacement.



# Model 70523 Code

The Model 70523 Pressure or Pressure-Flow Compensated Piston Pumps are specified by the following model code. Once a pump is built from the model code, a product number will be assigned to that arrangement.

In using the Model Code make sure all positions are selected within the 21 digit code for each pump.

<b>Code Example:</b>	<b>AAW</b>	<b>R</b>	<b>A</b>	<b>A</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>A</b>	<b>B</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>A</b>	<b>0</b>	<b>0</b>
Position -	1, 2, 3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	15,	16,	17,	18,	19,	20,	21
					0	1							0	0	0	0	A	0	0

**Position 1, 2, 3 - Code Title**

**AAW** = Model 70523, 69 cm<sup>3</sup>/r [4.21 in<sup>3</sup>/r]  
 Pressure or Pressure-Flow Compensated Piston Pump

*All left (CCW) or right (CW) directions given are viewed from the input shaft end of the pump.*

**Position 4 - Input Shaft Rotation**

**R** = Righthand Rotation (CW)  
**L** = Lefthand Rotation (CCW)

**Position 5, 6 - Input Shaft**

**AA** = 14 Tooth 12/24 Spline, Shaft Extension 55.6 [2.19]  
**AC** = Straight Shaft Dia. 31.8 [1.25], Keyway 7.98 [.314] x 34.11 [1.343], Shaft Extension 55.6 [2.19] (Key Included)

Code	AAW
<b>AA</b>	Std.
<b>AC</b>	Std.

**Position 7, 8 - Pressure Compensator Setting**

**01** = 210-215 bar [3000-3100 PSI]  
 Note: Consult an Eaton representative for additional settings from 35 bar [500 PSI] min.

<b>01</b>	Std.
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**Position 9, 10 - Flow Compensator Setting**

**00** = No Flow Compensator  
**01** = 13.1-14.57 bar [190-210 PSI]  
 Note: Consult an Eaton representative for additional settings to a max. of 31 bar [450 PSI]

<b>00</b>	Std.
<b>01</b>	Std.

**Position 11 - Compensator Special Features**

**0** = Top Mounted Compensator Assembly, No Special Features  
**D** = Rear Mounted Compensator Assembly, No Special Features  
**G** = Top Mounted Compensator Assembly with Bleed Off

<b>0</b>	Std.
<b>D</b>	Opt.
<b>G</b>	Opt.

**Position 12 - Main Ports, Size and Location**

**A** = 50.8 [2.00] Suction Port; 25.4 [1.00] Pressure Port; - 4 Bolt Flange, Code 61 - Opposite Sides  
**B** = 50.8 [2.00] Suction Port; 31.8 [1.25] Pressure Port; - 4 Bolt Flange, Code 61 - Opposite Sides  
**C** = 50.8 [2.00] Suction Port; 31.8 [1.25] Pressure Port; - 4 Bolt Flange, Code 61 - Rear Ports

<b>A</b>	Std.
<b>B</b>	Opt.
<b>C</b>	Opt.

**Position 13 - Drain Port, Size and Location**

**A** = .875-14 - UNF SAE Straight Thread O-ring Port - Left Side of Housing  
**B** = .875-14 - UNF SAE Straight Thread O-ring Port - Right Side of Housing

<b>A</b>	Std.
<b>B</b>	Std.

**Position 14 - Auxiliary Rear Mounting**

**0** = No Auxiliary Mounting  
**B** = [2- Bolt B] SAE Flange Series 101-2 with a 13 Tooth 16/32 External Spline (Coupler and O-ring not Included)  
**C** = [2- Bolt A] SAE Flange Series 82-2 with a 9 Tooth 16/32 External Spline (Coupler and O-ring Included)

<b>0</b>	Std.
<b>B</b>	Opt.
<b>C</b>	Opt.

**Position 15 - Maximum Displacement Option**

**0** = As Given in Code Title

<b>0</b>	Std.
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**Position 16, 17 - Special Features**

**00** = No Special Features

<b>00</b>	Std.
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**Position 18, 19 - Paint**

**0A** = Primer

<b>0A</b>	Std.
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**Position 20 - Identification**

**0** = Standard

<b>0</b>	Std.
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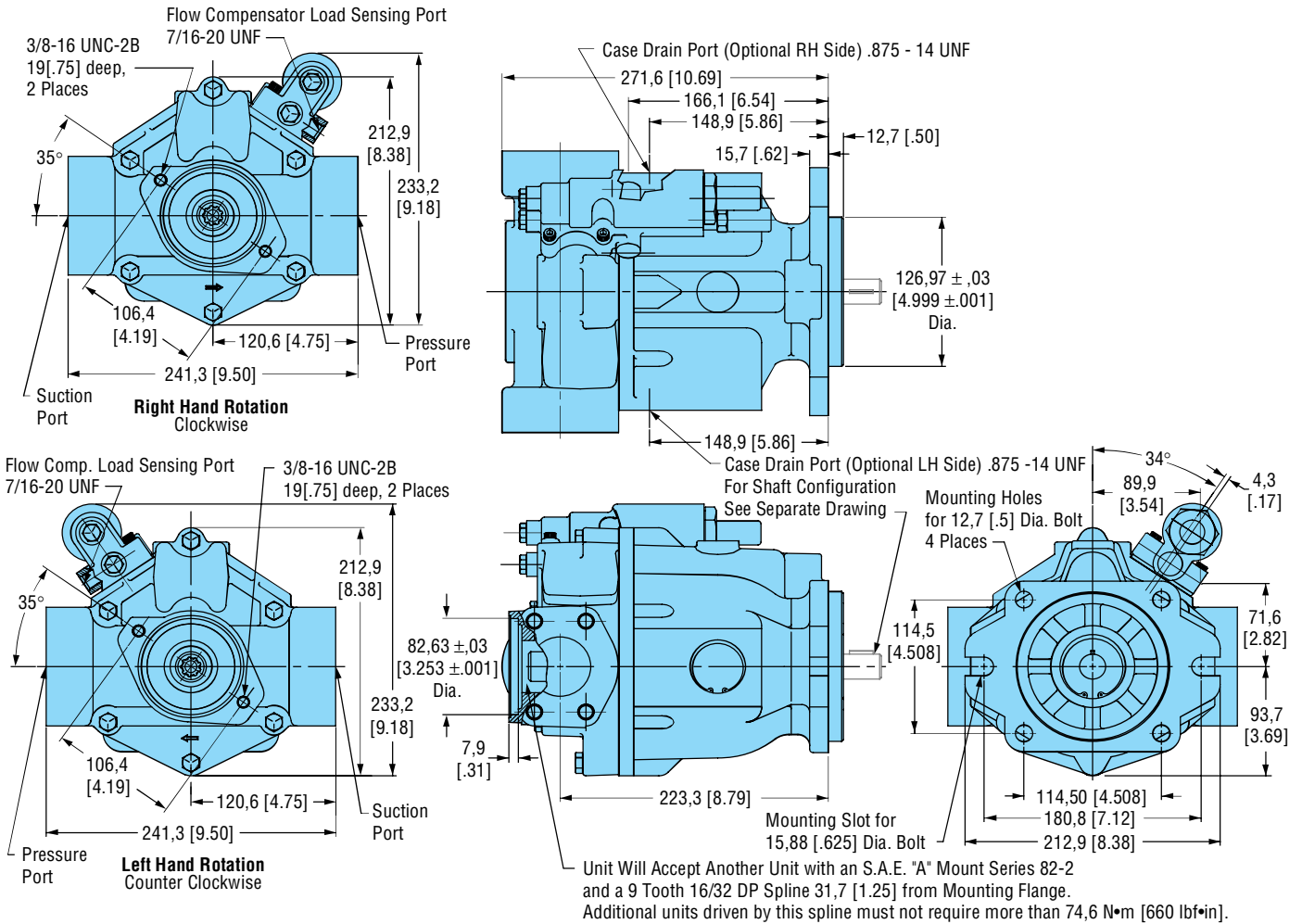
**Position 21 - Design Code**

**0** = Eaton assigned design code

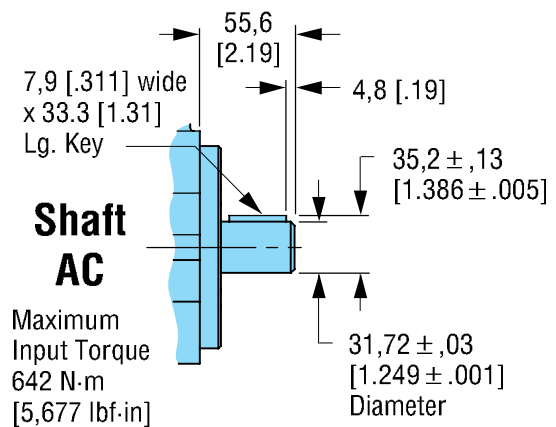
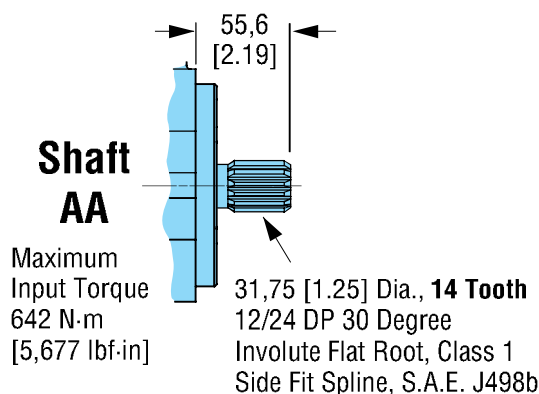
<b>0</b>	Std.
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# Model 70523 Installation Drawings

## Opposite Side Porting with 2 Bolt "A" Auxiliary Rear Mounting and Compensator in Top Position

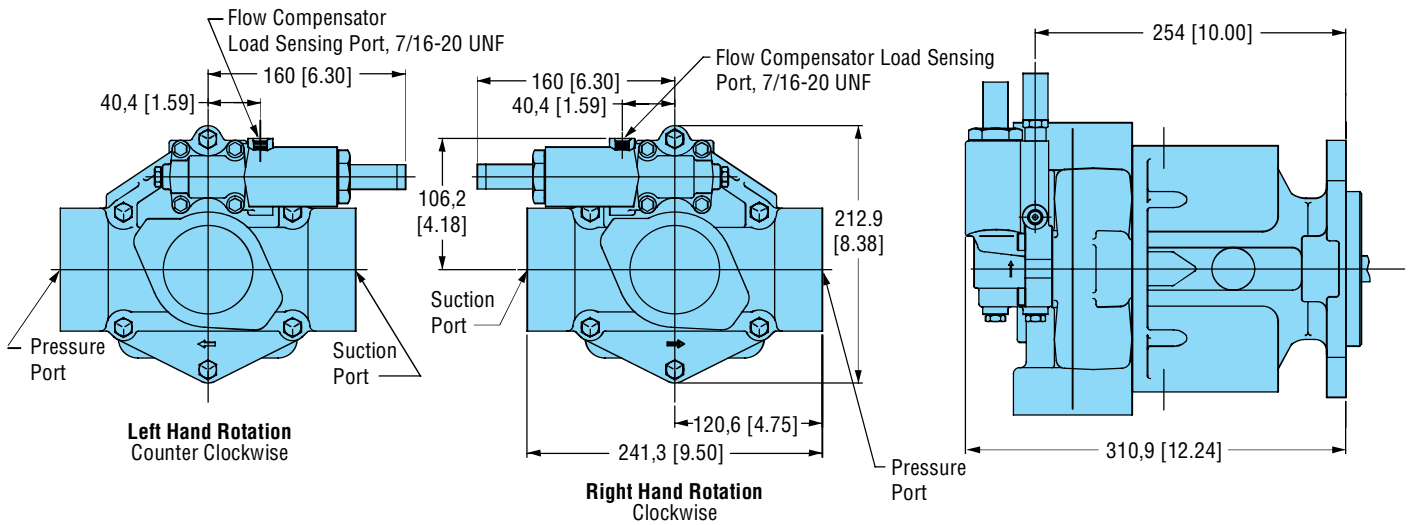


### Input Shafts

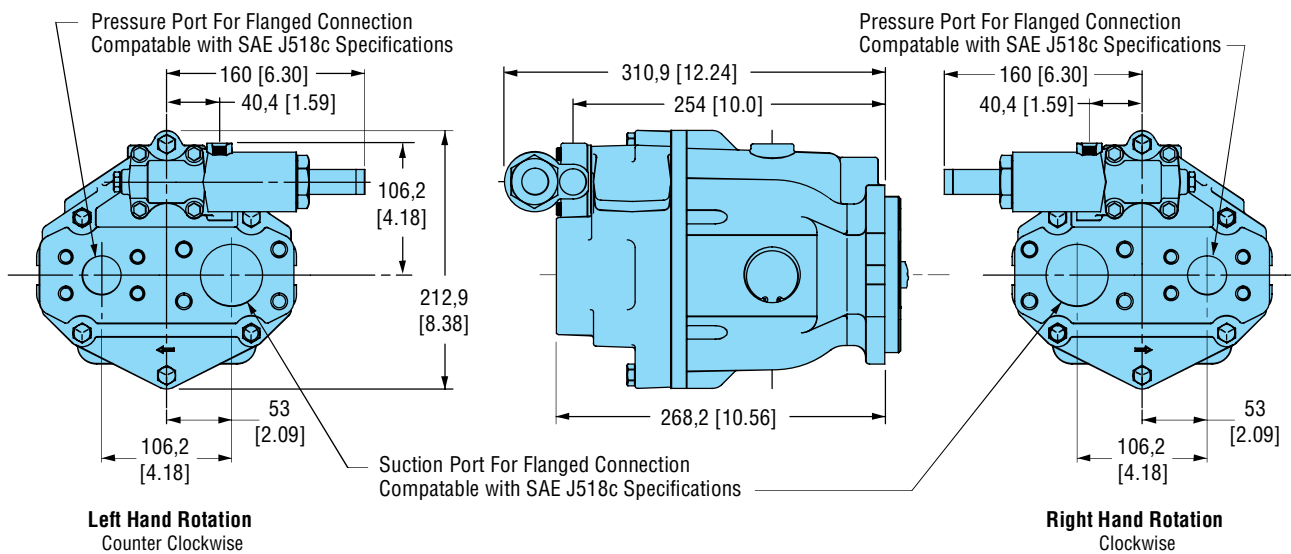


# Model 70523 Installation Drawings

## Opposite Side Porting with Compensator Position on the Rear



## Rear Porting with Compensator Position on the Rear



# Model 70523 Installation Drawings

## 2-Bolt "B" Auxiliary Rear Mounting

