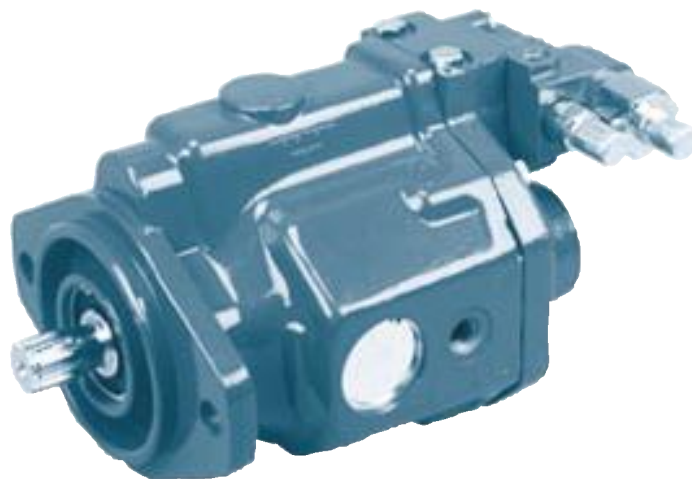
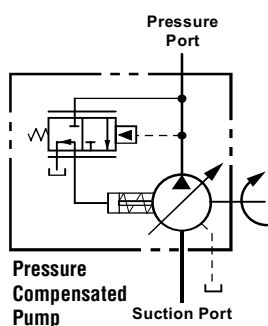
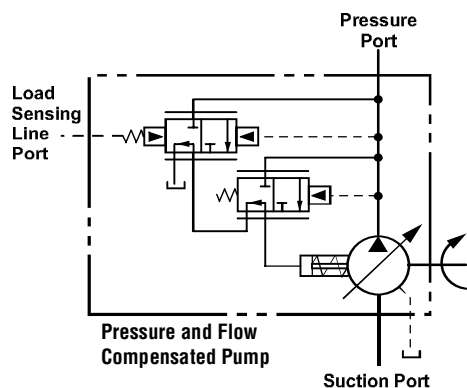


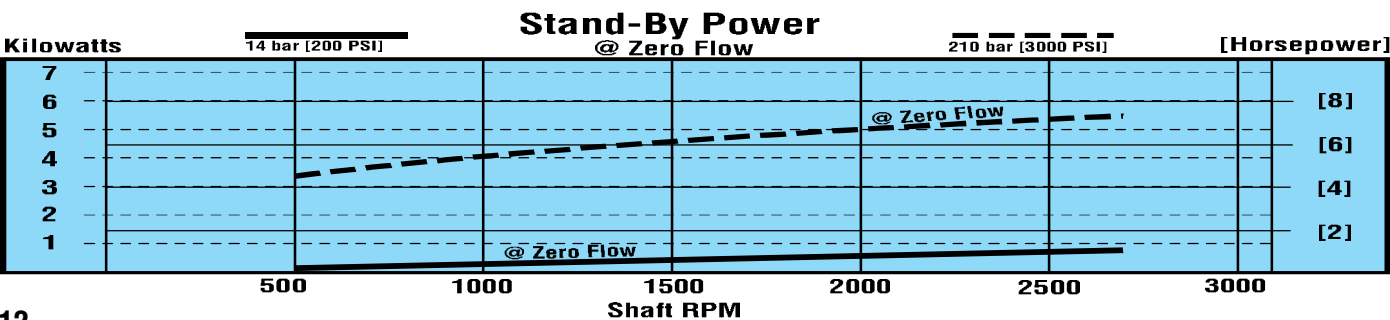
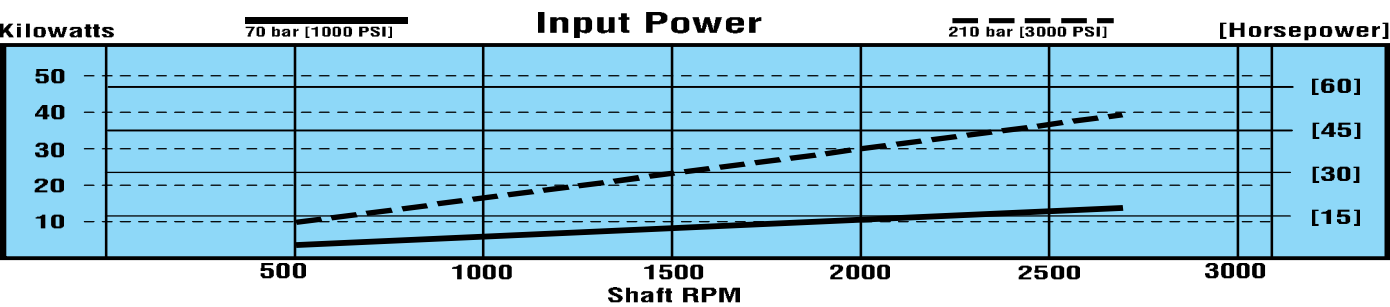
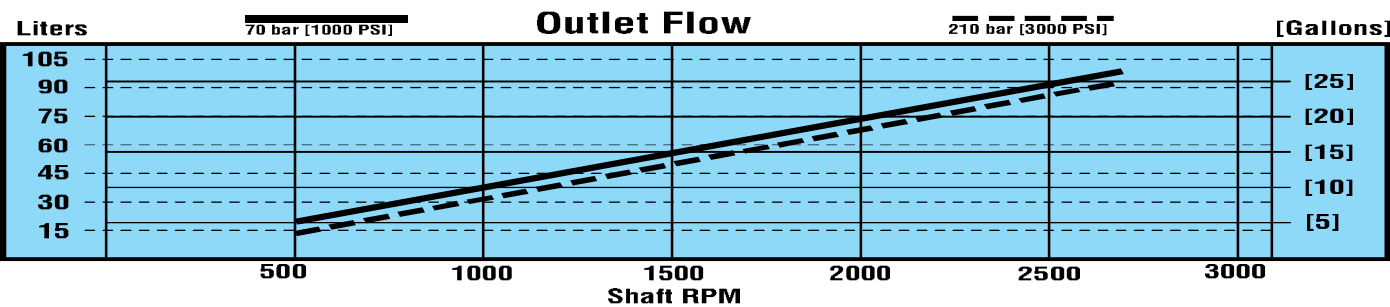
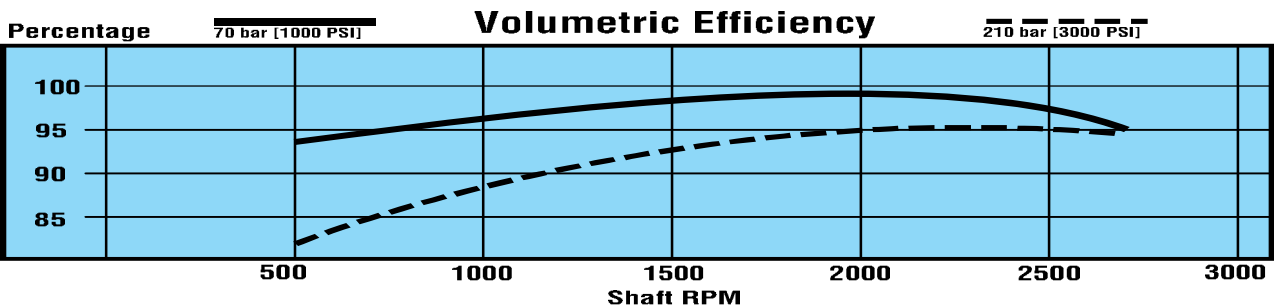
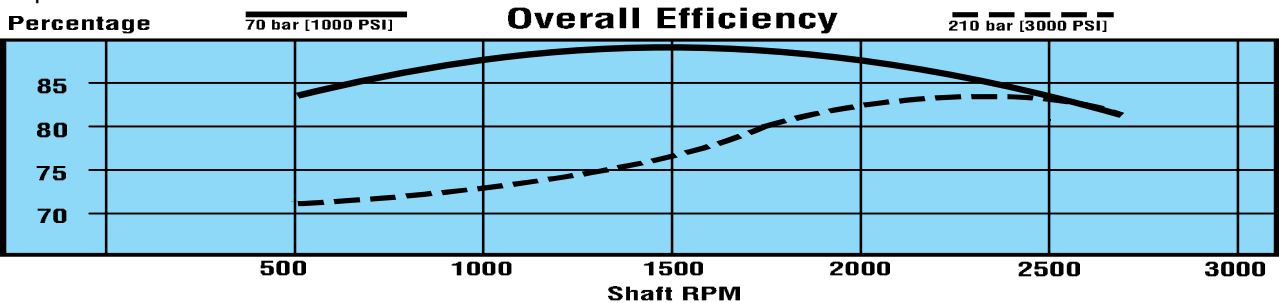
Model 70422, 38 cm³/r [2.32 in³/r] and Model 70423, 45.4 cm³/r [2.77 in³/r]



Specification	Model 70422		Model 70423	
	Metric Units	U.S. Units	Metric Units	U.S. Units
Mounting Flange	2 Bolt SAE "B" Mount		2 Bolt SAE "B-B" Mount	
Maximum Displacement / Rev	0 to 38 cm ³ /r	0 to 2.32 in ³ /r	0 to 45 cm ³ /r	0 to 2.77 in ³ /r
Flow @Rated Speed and PSI	98.4 l/min.	26.0 GPM	125 l/min.	33 GPM
Maximum Rated Speed	2700 RPM	2700 RPM	3000 RPM	3000 RPM
Continuous Rated Pressure	210 bar	3000 PSI	210 bar	3000 PSI
Maximum Intermittent Pressure	275 bar	4000 PSI	265 bar	3800 PSI
Continuous Allowable Case Pressure	2 bar	25 PSI	2 bar	25 PSI
Maximum High Pressure Setting @ Zero Flow	Std. 210 bar	Std. 3000 PSI	Std. 210 bar	Std. 3000 PSI
Low Pressure Setting @ Zero Flow	Std. 14 bar	Std. 200 PSI	Std. 14 bar	Std. 200 PSI
Compensator Response @ Rated PSI and RPM	8 mil. sec.	8 mil. sec.	18 mil. sec.	18 mil. sec.
Compensator Recovery @ Rated PSI and RPM	42 mil. sec.	42 mil. sec.	75 mil. sec.	75 mil. sec.
Maximum Continuous Inlet Vacuum	0,91 bar absolute	3 in. Hg.	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.		Consult an Eaton representative and/or Eaton engineering	
Maximum Continuous Inlet Temperature	107°C	225° F	107°C	225° F
Minimum Operating Temperature	-29° C	-20° F	-29° C	-20° F
Weight per single pump	12,3 kg	27 lbs.	11,8 kg	26 lbs.

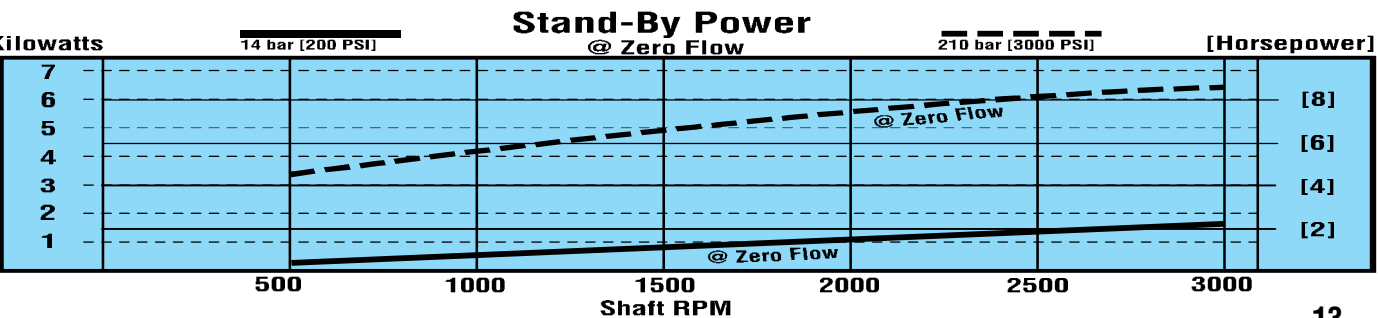
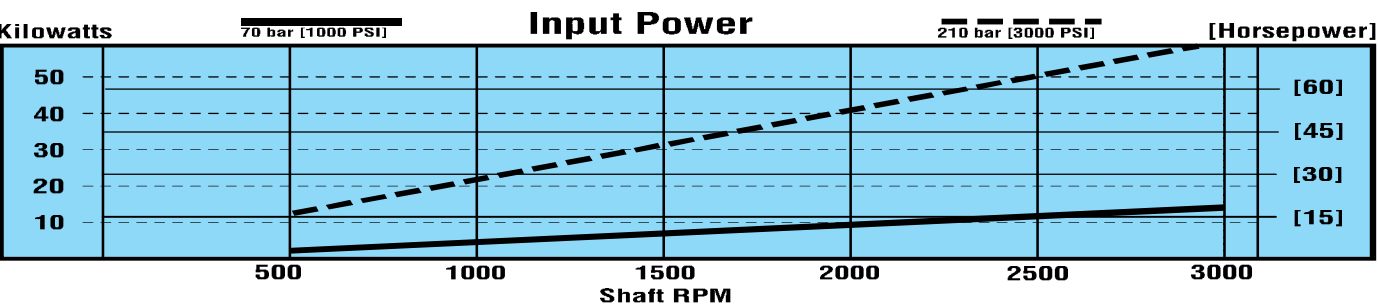
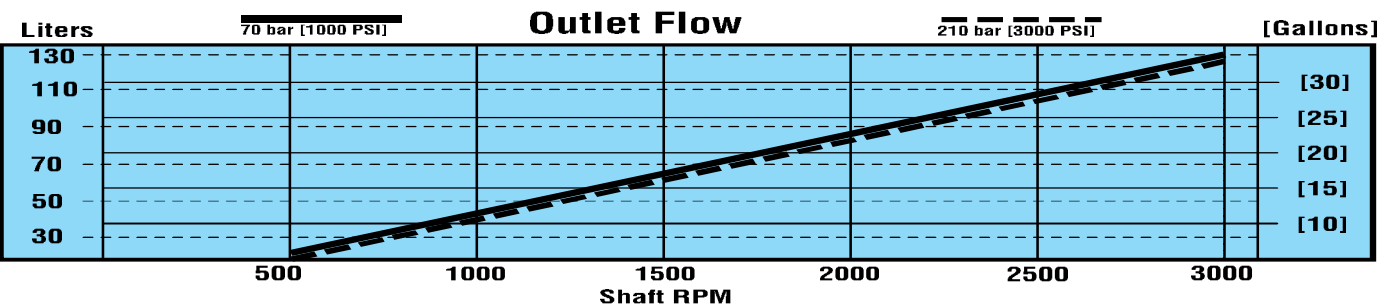
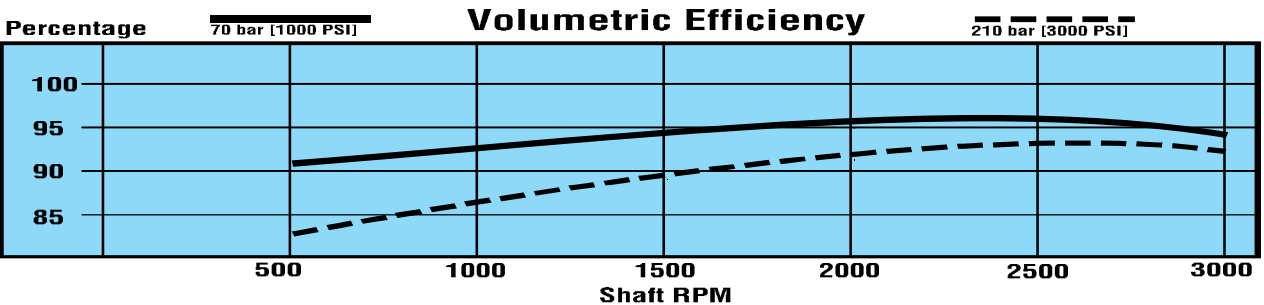
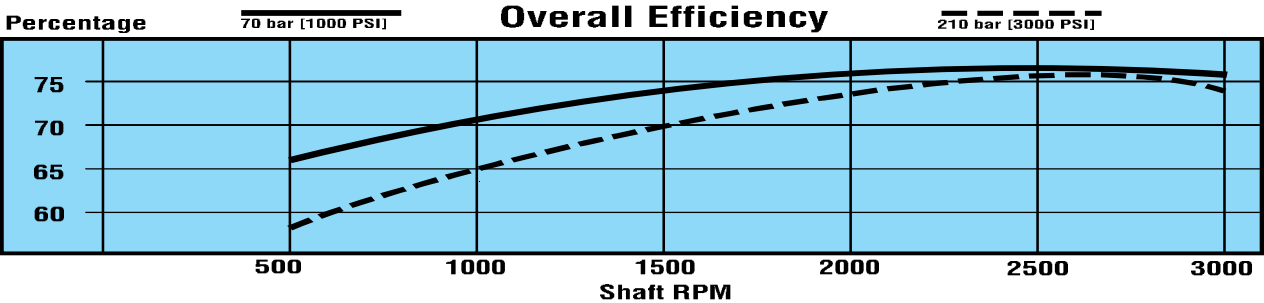
Model 70422 Performance Data

The charts below are representative of a 38 cm³/r [2.32 in³/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 70423 Performance Data

The charts below are representative of a 45 cm³/r [2.77 in³/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 70422 and 70423 Code

The Model 70422 and 70423 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.

Code Example:	AAG	R	A	F	0	1	0	1	0	A	A	0	0	0	0	A	0	0	
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

AAG = Model 70422, 38 cm³/r [2.32 in³/r]

Pressure or Pressure-Flow Compensated Piston Pump

AAH = Model 70423, 45.4 cm³/r [2.77 in³/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 = 15 Tooth 16/32 Spline, Shaft Extension 46 [1.81]

AF = 13 Tooth 16/32 Spline, Shaft Extension 41,1 [1.62]

AM = Straight Shaft Dia. 22,2 [.875], Keyway 6,3 [.25] x 25 [1.0], Shaft Extension 41,1 [1.62] (Key Included)

AN = Straight Shaft Dia. 25,4 [1.00], Keyway 6,3 [.25] x 29,5 [1.16], Shaft Extension 46 [1.81] (Key Included)

Code AAG AAH

AA	Opt.	Std.
AF	Std.	Opt.
AM	Std.	Opt.
AN	Opt.	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.

01 Std. Std.

Position 9, 10 - Flow Compensator Setting

00 = No Flow Compensator

01 = 13,1-14,5 bar [190-210 PSI]

Note: Consult an Eaton representative for additional settings to a max. of 31 bar [450 PSI]

00 Std. Std.
01 Std. Std.

Position 11 - Compensator Special Features

0 = No Special Feature

A = Bleed Off

0 Std. Std.
A Opt. Opt.

Position 12 - Main Ports, Size and Location

A = 1.625 -12 UN Suction Port; 1.3125-12 UN Pressure Port; - SAE Straight Thread O-ring Ports - Rear

B = 1.625 -12 UN Suction Port; 1.3125-12 UN Pressure Port; - SAE Straight Thread O-ring Ports - Opposite Sides

A Std. Std.
B Std. Std.

Position 13 - Drain Port, Size and Location

A = .5625-18 UNF - SAE Straight Thread O-ring Port - Right Side of Housing

E = .5625-18 UNF - SAE Straight Thread O-ring Port - Right and Left Side of Housing

A Std. Std.
E Opt. Opt.

Position 14 - Auxiliary Rear Mounting

0 = No Auxiliary Mounting

B = [2-Bolt A] SAE Flange Series 82-2 with a 9 Tooth 16/32 Intl. Spline, Accepts 38,1 [1.50] Shaft Extension

C = [2-Bolt A] SAE Flange Series 82-2 with a 9 Tooth 16/32 Intl. Spline, Accepts 38,1 [1.50] Shaft Extension, with Cover Plate

D = [2-Bolt B] SAE Flange Series 101-2 with a 41 Tooth 48/96 External Spline, Accepts 24,9 [.98] Shaft Extension

0 Std. Std.
B Opt. Opt.
C Opt. Opt.
D Opt. Opt..

Position 15 - Maximum Displacement Option

0 = As Given in Code Title

0 Std. Std.

Position 16, 17 - Special Features

00 = No Special Features

00 Std. Std.

Position 18, 19 - Paint

0A = Primer

0A Std. Std.

Position 20 - Identification

0 = Standard

0 Std. Std.

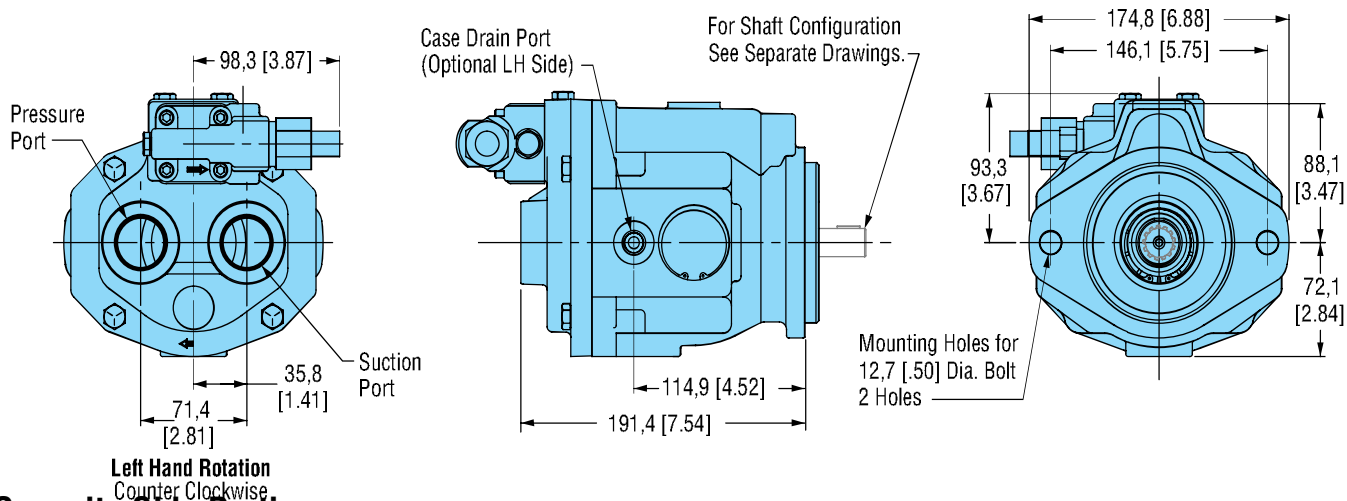
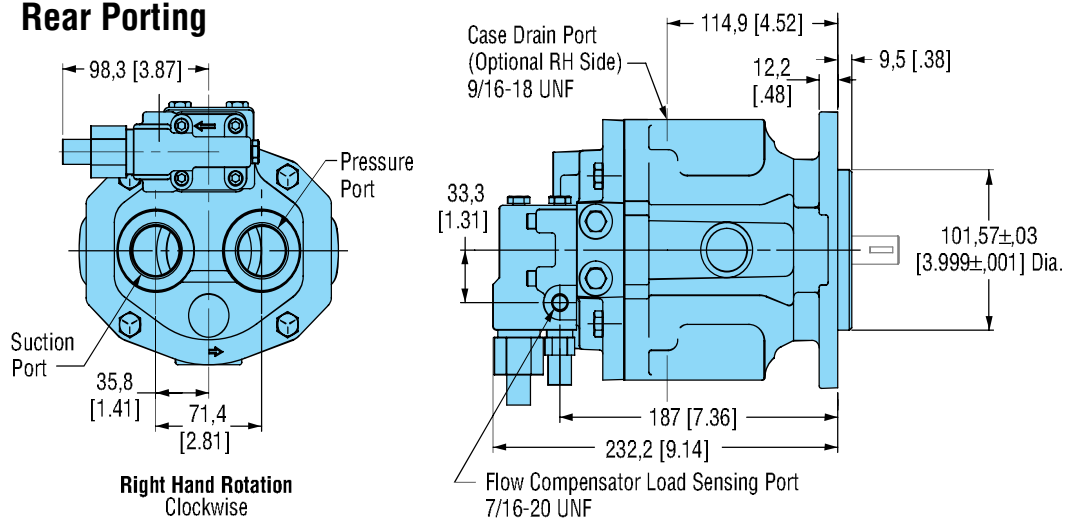
Position 21 - Design Code

0 = Eaton assigned design code

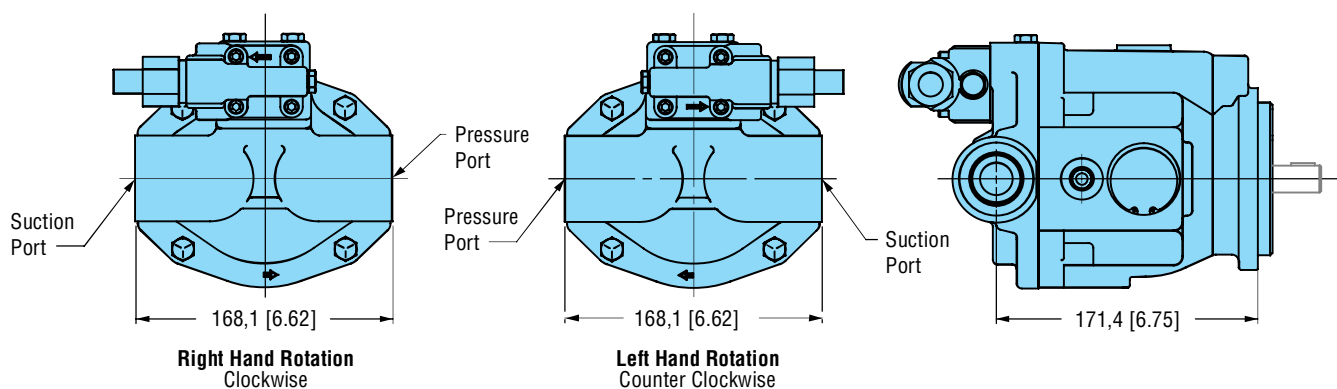
0 Std. Std.

Model 70422 and 70423 Installation Drawings

Rear Porting

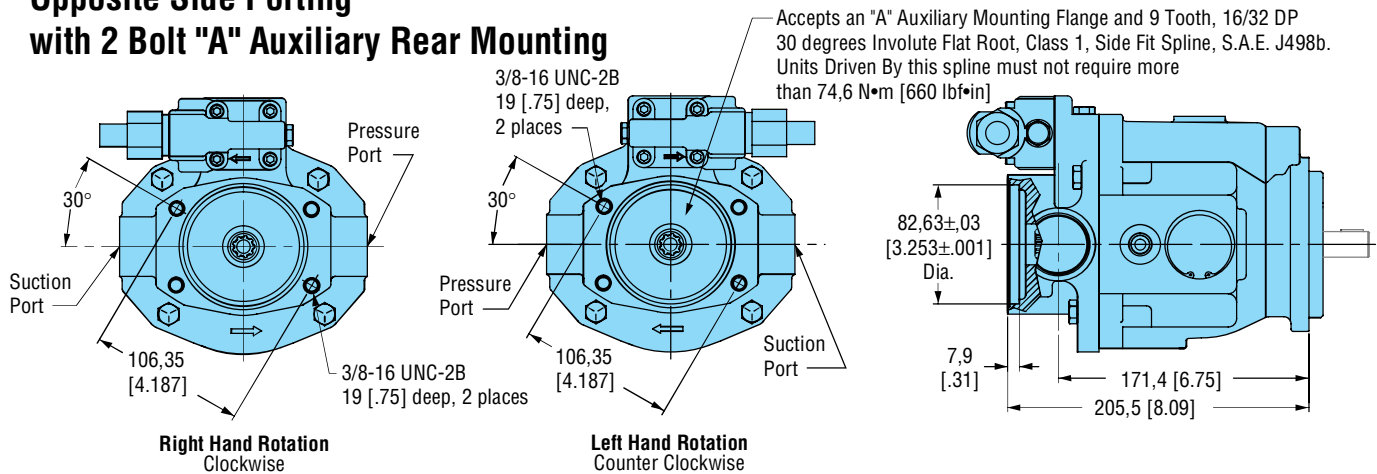


Opposite Side Porting

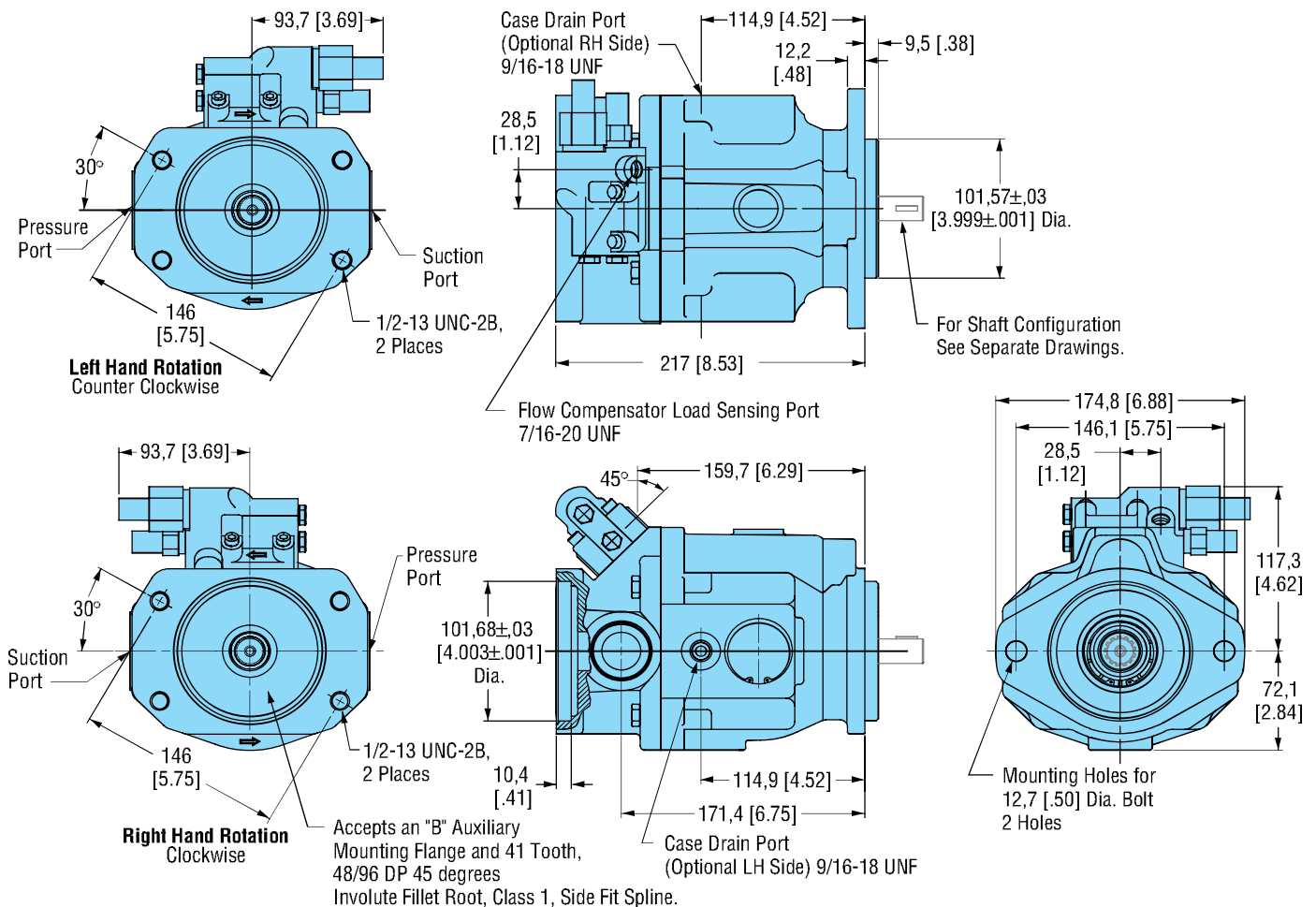


Model 70422 and 70423 Installation Drawings

Opposite Side Porting with 2 Bolt "A" Auxiliary Rear Mounting

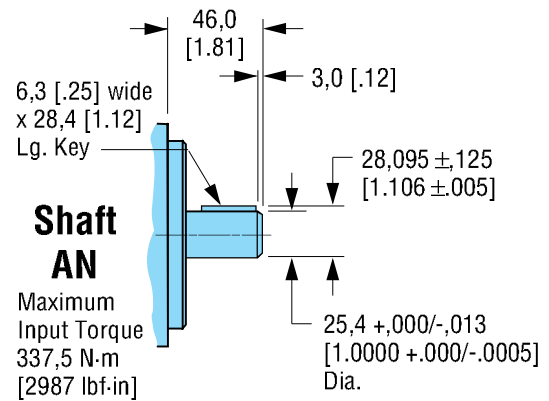
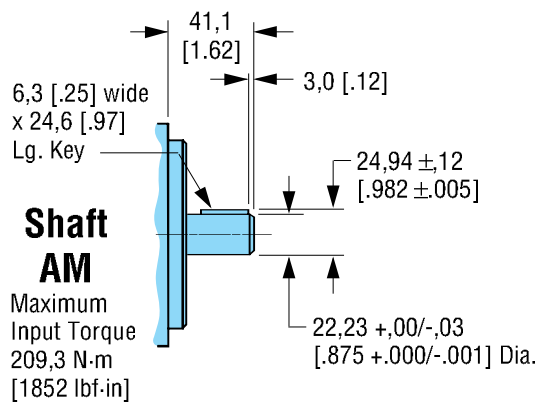
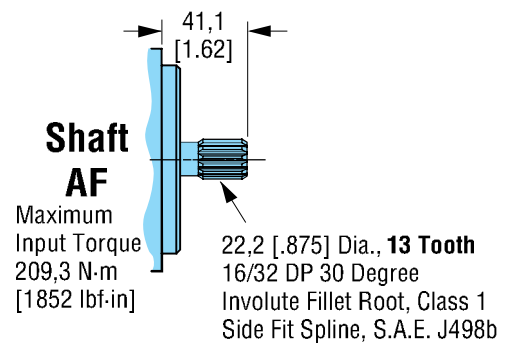
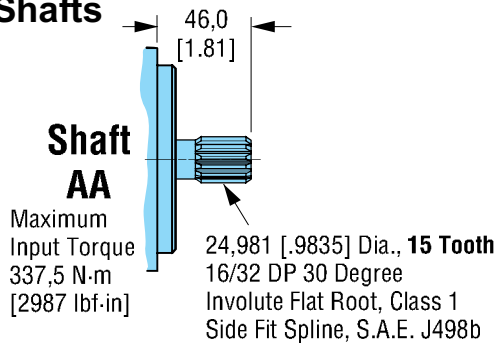


Opposite Side Porting with 2 Bolt "B" Auxiliary Rear Mounting



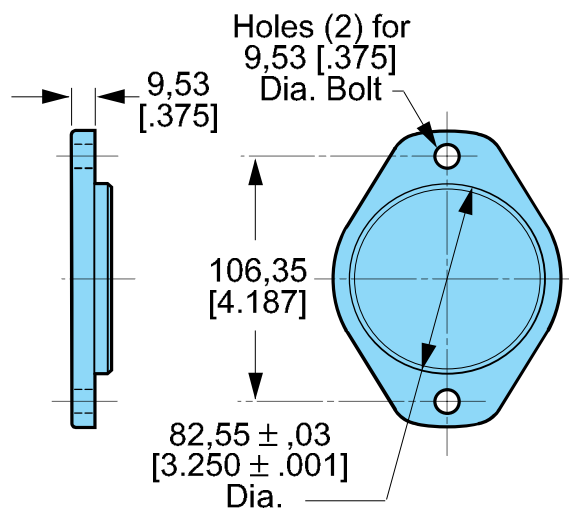
Model 70422 and 70423 Installation Drawings

Input Shafts



Cover Plate

Fits SAE "A" Auxiliary
Mounting Flange in place of
auxiliary pump.
A kit (#70142-915)
includes Cover Plate, 2 Cap
Screws, and O-ring.



Dimensions are in millimeters [inches],
unless otherwise specified.