



YEOSHE

Hydraulic Piston Pump L Series



www.yeoshehydraulic.com

Efficient Performance
Innovative Technology
Reliable Quality and Service

YEOSHE HYDRAULICS CO.,LTD.



L Axial piston pump

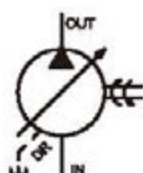
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L Axial piston pump

L Series axial piston pump



- 1.The 100% as same as SAUER D*NFOSS L series.
- 2.L Series combining special design and strict engineering disciplines, reducing noise level.
- 3.Variable controller, easy to achieve high performance, saving energy & cost.
- 4.Low power capacity, low temperature level, long life.
- 5.Application for machine tool, injection machine, forging, paint spray machine, and so on...



nominal pressure: 210 bar
max. pressure: 250 bar

Specifications

FRAME	SIZE	15	23	38	50	70
DELIVERY AT MAXIMUM RPM (THEORETICAL)						
"Quiet" Version						
• GPM		14.0	19.5	29.8	32.7	41.0
• l/min		53.0	73.8	113.0	124.0	155.0
"Super Quiet" Version						
• GPM		7.1	11.0	17.9	24.5	33.2
• l/min		26.9	41.6	67.8	92.7	125.7
DISPLACEMENT						
• In ³ /Rev		.913	1.41	2.30	3.15	4.26
• CC/Rev		15	23	38	50	70
INPUT SPEED						
• Maximum-RPM-"Quiet" Version		3600	3200	3000	2400	2200
• Maximum-RPM-"Super Quiet" Version		1800	1800	1800	1800	1800
• Minimum-RPM		500	500	500	500	500
INPUT MOUNTING						
FLANGE PER		SAE A	SAE B	SAE B	SAE C	SAE C
SAE J744						

- 1.Install outlet on top,the pipe pressure needs less than 2bar.
- 2.Using at max.pressure,please undre 6 sec for per-cycle time.
- 3.Hydraulic oil clean,please following YEOSHE instruction maunal.
- 4.YEOSHE supply combinable pumps with different series,standard with Metric / SAE size.



L Axial piston pump

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L Axial piston pump

Specifications

FRAME	SIZE	15	23	38	50	70
INPUT SHAFT (STD. SPLINE)						
• Number of Teeth		9	13	13	14	14
• Pitch		16/32	16/32	16/32	16/32	16/32
WEIGHT	LBS	25	40	48	110	120
	KG	11.5	18.0	22.0	50.0	54.5
PRESSURE						
• Maximum	PSI	3000	ALL FRAME SIZES			
	BAR	210	ALL FRAME SIZES			
CASE PRESSURE						
• Maximum	PSI	10	ALL FRAME SIZES			
	BAR	0.7	ALL FRAME SIZES			
TEMPERATURE AT HOTTEST POINT IN SYSTEM (NORMALLY AT CASE DRAIN)						
• Maximum	°F	200	ALL FRAME SIZES			
(not to exceed 5 minutes)	°C	93	ALL FRAME SIZES			
• Continuous	°F	180	ALL FRAME SIZES			
	°C	82	ALL FRAME SIZES			
FLUID VISCOSITY LIMITS – SUS (CST)						
• Optimum		70 (13)	ALL FRAME SIZES			
• Minimum Continuous		55 (9.0)	ALL FRAME SIZES			
• Minimum Intermittent		47 (6.4)	ALL FRAME SIZES			
• Maximum Continuous		500 (110)	ALL FRAME SIZES			
SUGGESTED FILTRATION						
• Inlet		150 Mesh Strainer	ALL FRAME SIZES			
• Return		Beta 10 = 10 to 20	ALL FRAME SIZES			
INLET VACUUM AT SEA LEVEL						
• Maximum	in. Hg	5	ALL FRAME SIZES			
	BAR (abs)	0.8	ALL FRAME SIZES			

NOTE: Positive inlet pressure is required at maximum pump speeds.

Type code for standard program

L	18	R	K	Y		-						-		
1	2	3	4	5	6		7	8	9	10	11		12	13
Series	Displacement	Rotation	Seals	Shaft type	Direction of pipe connections		Control device	Voltage	Pressure adjusting	Load-sensing pressure adjusting	Load-sensing flow pressure adjusting		Thru drive & 2nd pump	Special spec.

Series

1	Axial piston pump variable displacement high pressure version	nominal pressure: 210 bar max. pressure: 250 bar single operation period: 250bar / 6ms, 315bar/2.5ms	L
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Size and displacement

2	Code		10	15	18	23	25	38	42	50	70
	Size		1			2		3		4	
	Displacement	cm ³ / rev	10	15	18	23.0	25.0	37.8	42.0	51.5	69.7
		in ³ / rev	0.61	0.90	1.1	1.40	1.52	2.31	2.56	3.14	4.25

Rotation

3	 Clockwise	R
	 Counter clockwise	L

Seals

4	NBR	B
	Viton	V

Shaft type

		10	15	18	23	25	38	42	50	70	
5	Key	■	■	■	■	■	■	■	■	■	K ※
	9T	■	■	■	-	-	-	-	-	-	S ※
	13T	-	-	-	■	■	■	■	-	-	
	14T	-	-	-	-	-	-	-	■	■	

Direction of pipe connections

6	Side port (Thread)	△	△	△	△	△	△	△	△	-	-	X
	Side port (Flange)	-	-	-	-	-	-	-	-	■	■	
	Rear port (Thread)	■	■	■	■	■	■	■	■	-	-	Y ※

* Remark: If 50.70cc/rev displacement side port pump wanted,
Please check V series catalogue.

Control device

7	Standard pressure control	PC
	Load-sensing control	FP
	Remote pressure control	RC

(Please contact YEOSHE, if other size required.)

Voltage

8	None	X
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■ = available - = on request ※ = standard type △ = custom made



Type code for standard program

A

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L Axial piston pump

L	18	R	K	Y		-						-		
1	2	3	4	5	6		7	8	9	10	11		12	13
Series	Displacement	Rotation	Seals	Shaft type	Direction of pipe connections		Control device	Voltage	Pressure adjusting	Load-sensing pressure adjusting	Load-sensing low pressure adjusting		Thru drive & 2nd pump	Special spec.

Pressure adjusting

	10	15	18	23	25	38	42	50	70	
9	8~70bar (0.8~6.9 Mpa)	■	■	■	■	■	■	■	■	1
	15~140bar (1.5~13.7 Mpa)	■	■	■	■	■	■	■	■	2
	20~210bar (2.0~20.6Mpa)	■	■	■	■	■	■	■	■	3
	20~250bar (2.0~24.5 Mpa)	■	■	■	■	■	■	-	-	4

Load-sensing pressure adjusting

	10	15	18	23	25	38	42	50	70	
10	7bar	■	■	■	■	■	■	■	■	A
	14bar	■	■	■	■	■	■	■	■	B
	21bar	■	■	■	■	■	■	■	■	C
	28bar	△	△	△	△	△	△	△	△	D
	42bar	△	△	△	△	△	△	△	△	E
	Not applicable	■	■	■	■	■	■	■	■	X

Load-sensing flow pressure adjusting

	10	15	18	23	25	38	42	50	70	
11	70bar	■	■	■	■	■	■	■	■	1
	140bar	■	■	■	■	■	■	■	■	2
	Not applicable	■	■	■	■	■	■	■	■	X

Thru drive & 2nd pump

12	SAE A	■	■	■	■	■	■	■	■	■	■	A
	Single pump	■	■	■	■	■	■	■	■	■	■	X

* Thru drive for side port pump only.

Special specification

13	Super quiet version	-	-	-	-	-	-	-	-	-	-	K
	Standard type	■	■	■	■	■	■	■	■	■	■	X

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■ = available - = on request ※ = standard type △ = custom made

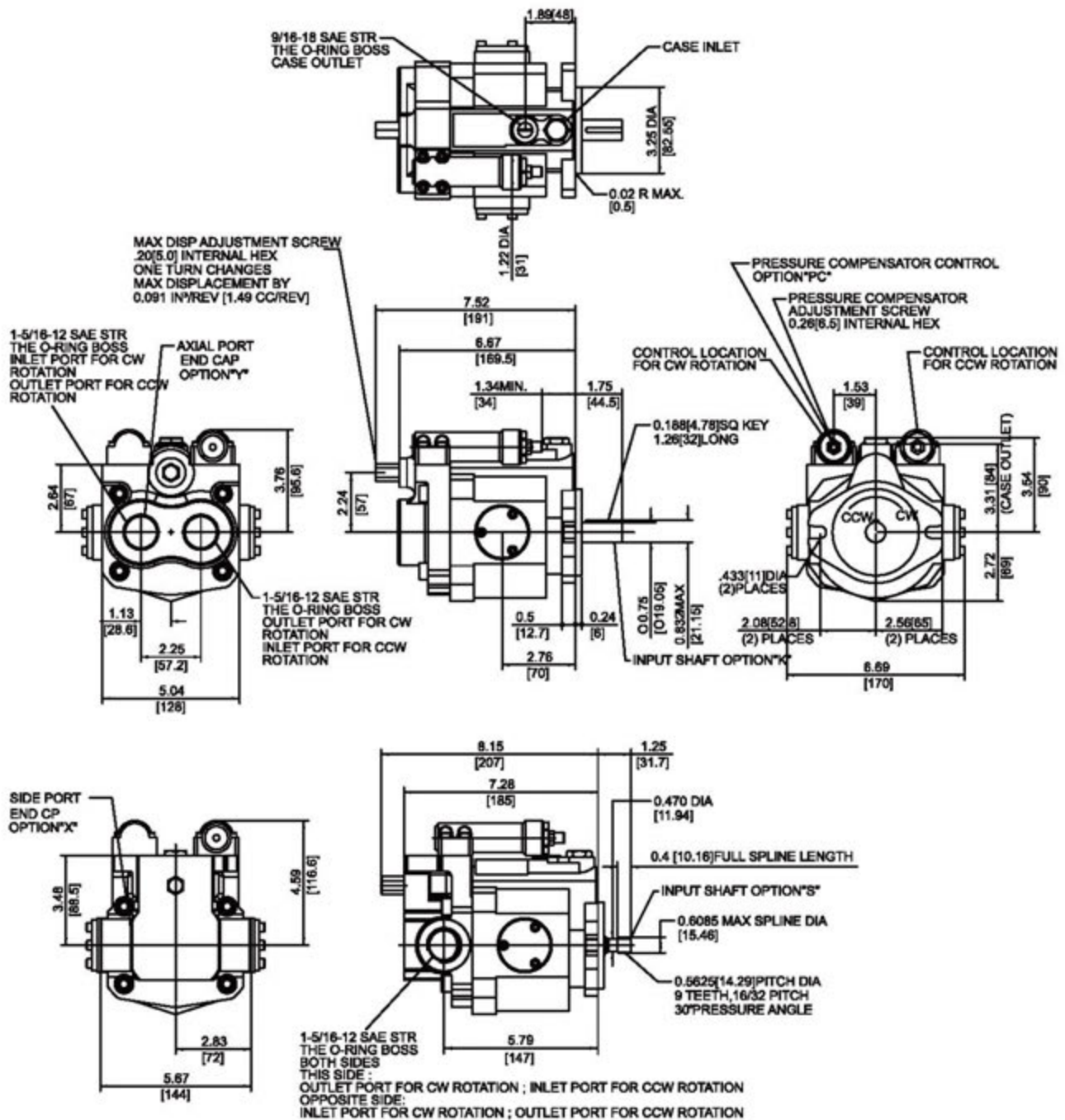
Dimension

L15 Variable Displacement Pump - Installation Drawings

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L Axial piston pump





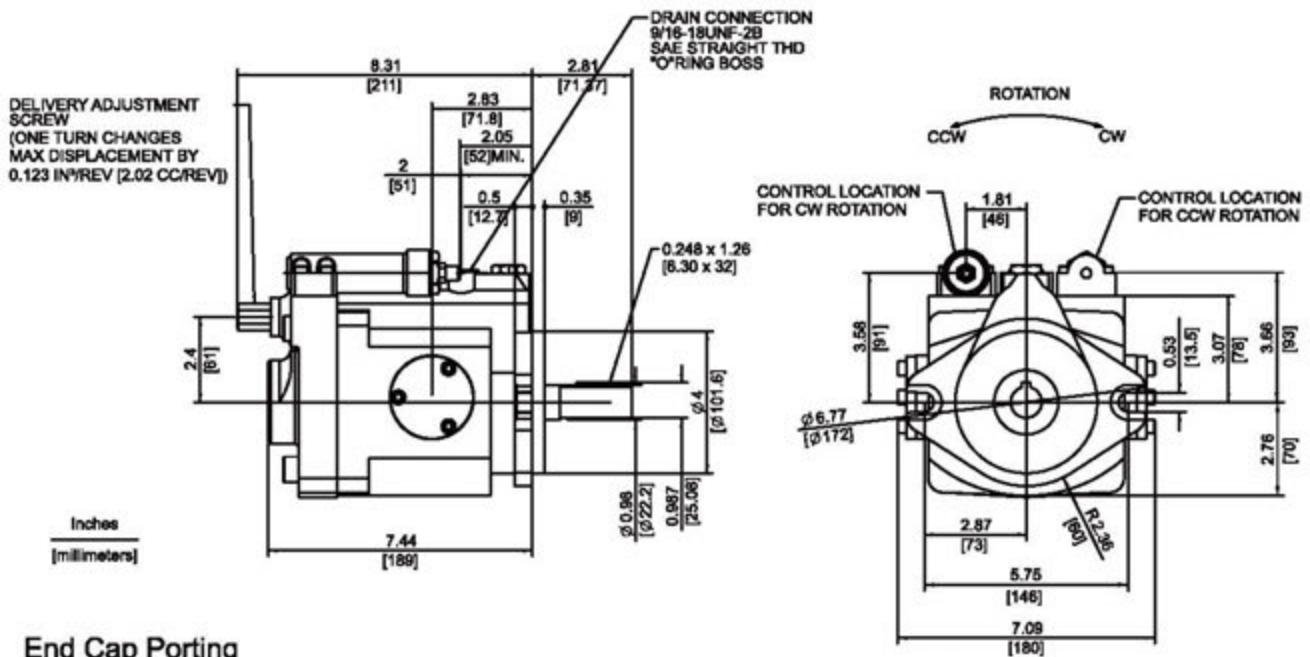
Dimension

Frame Size 23 - Variable Displacement Pump Installation Drawings

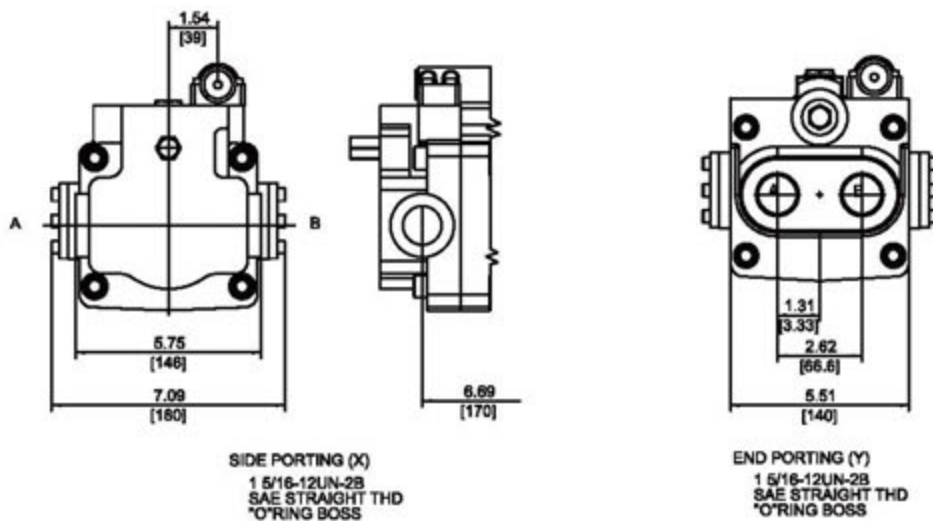
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L Axial piston pump

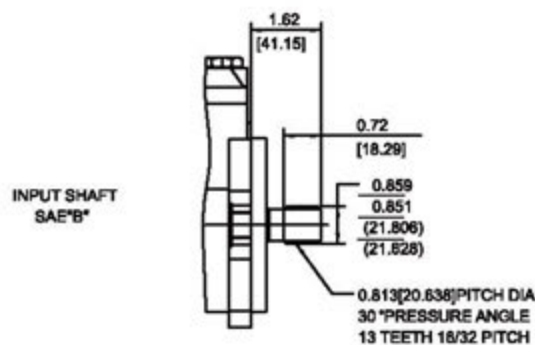


End Cap Porting



Direction Rotation	Ports	
	Inlet	Outlet
CW	A	B
CCW	B	A

SAE Spline Shaft

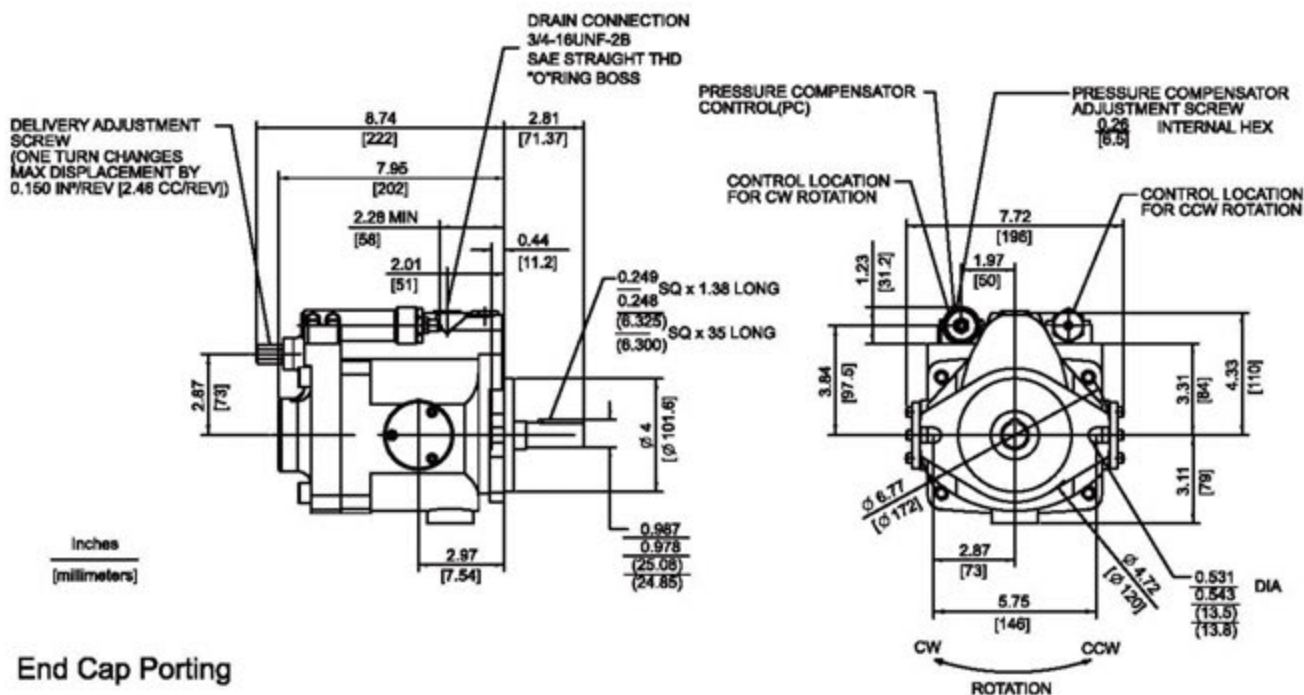


Frame Size 38 - Variable Displacement Pump Installation Drawings

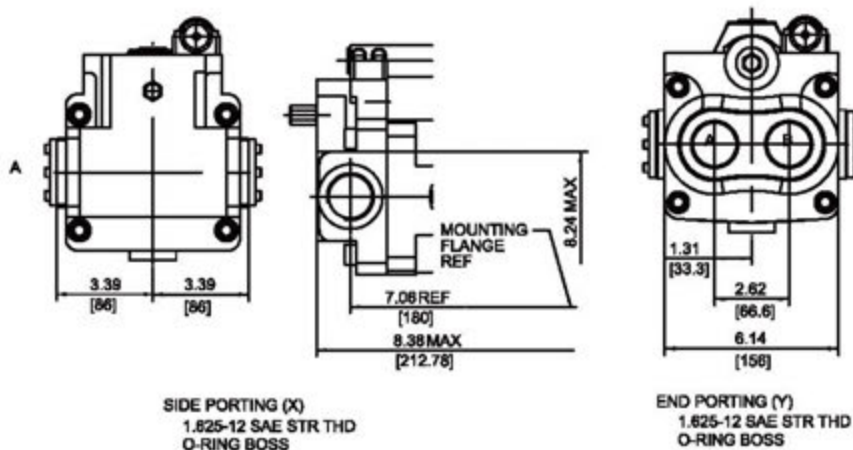
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L Axial piston pump

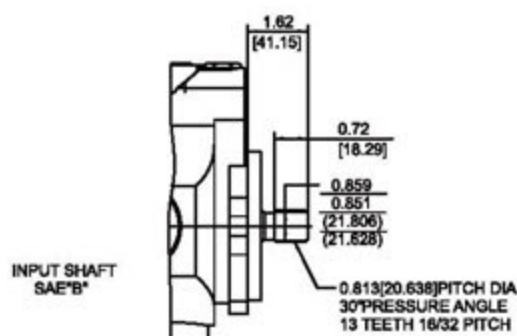


End Cap Porting



Direction Rotation	Ports	
	Inlet	Outlet
CW	A	B
CCW	B	A

SAE Spline Shaft





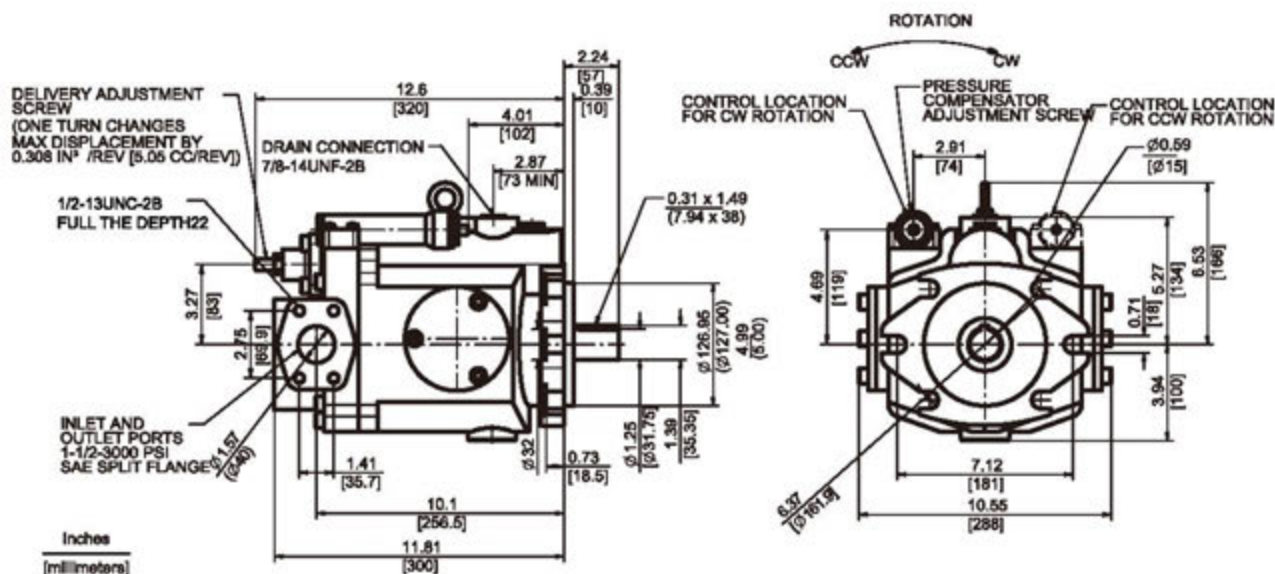
Dimension

Frame Size 70 - Variable Displacement Pump Installation Drawings

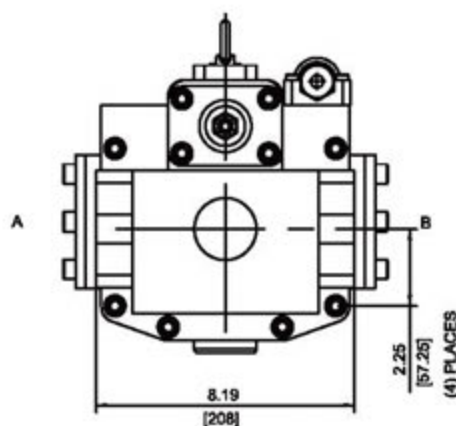
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L Axial piston pump



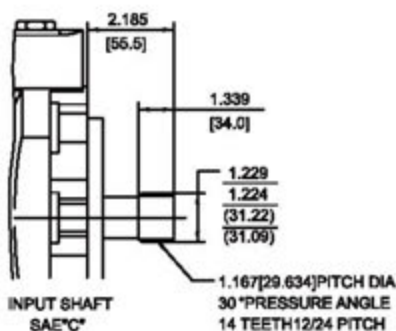
End Cap Porting



SIDE PORTING (X)

Direction Rotation	Ports	
	Inlet	Outlet
CW	A	B
CCW	B	A

SAE Spline Shaft





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Efficient Performance

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