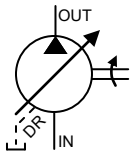
FluidHaus

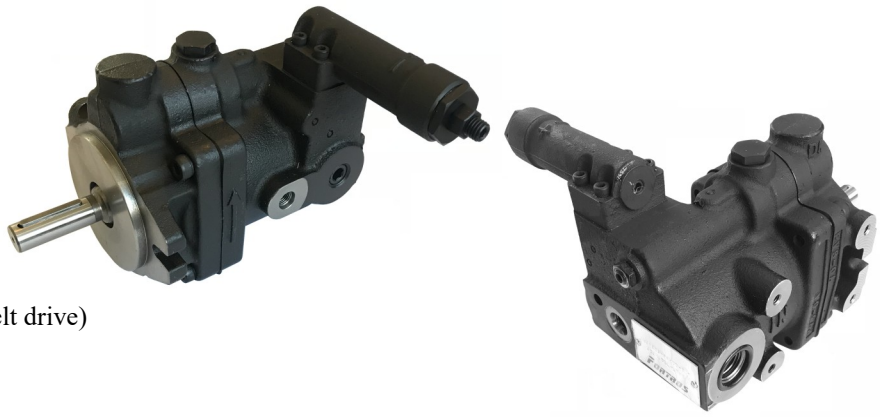
Axial Piston Pump, 8 cc/rev
Series: PVAP…7

SAE 0-210 Bar (0-3000 PSI) <22.4 lpm (<5.9 gpm)



Features

- Axial Piston Pump Design
- Variable Displacement
- For Open Loop Systems
- Rotation speed up to 2800 rpm
- Continuous Pressure to 210 Bar (3000 psi)
- High rpm operation ideal for mounting to con engines.
- Front C flange mounting or foot mounting (belt drive) capability.



Ordering Details

P	Pump
V	Variable
AP	Axial Piston
8-	CC, Centimeters^3/rev.: 8

PR- Controller: (ref. page 2)

Code	Description
PR	Pressure variable adjustment

K0.6- Shaft: (ref. page 3)

Keyed

Code	Shaft Dia., in.	Key Width, in.	Port Location	Reference Page
K0.6	0.625	0.157	RS	3
K0.7	0.750	0.1875	S	4

2A- Mounting Flange: (ref. page 3 and 4)

Code	Flange
2A	SAE A, 2-bolt

O6 Pressure Port:

Code	Port Details	Port Location	Reference Page
O6	SAE –6, 9/16-18UNF	RS	3
G8	BSPP 1/2”	S	4

O12 Suction Port:

Code	Port Details	Port Location	Reference Page
O12	SAE –12, 1 1/16-12	RS	3
N.5	1/2” NPT	RS	3
G8	BSPP 1/2”	S	4

RS- Port Location: RS = Pressure Port Rear, Suction Port Side, **S** = Both ports on the side

L- Rotation: **L**=Left Hand (CCW), **R**= Right Hand (CW)

7 Frame: 7

Example Part Number: PVAP8-PR-K0.6-2A-O6O12RS-L-7

Technical Specifications:

Displacement	cc/rev (in^3/rev	8
Flow at 1800 rpm	lpm (gpm)	14.4 (3.7)
Flow at 2800 Max. RPM	lpm (gpm)	22.4 (5.9)

Maximum RPM (continuous)	rpm	2800
Min. Recommended RPM	rpm	500
Max. Pressure (continuous)	bar (psi)	210 (3000)
Power at 1800 rpm and max. pressure (Continuous)	kw (hp)	4.8 (6.5)
Power at max. rpm and max. pressure (Continuous)	kw (hp)	7.7 (10.3)
Max. Case Pressure above Suction Port Pressure (not to exceed 2 bar (29psi)), Measured at drain port L.	bar (psi)	01 (14.5)
Max. Suction Port Pressure	bar (psi)	10 (145)
Min. Suction Port Pressure	bar (psi)	-0.3 (-4.4)
Recommended Oil Viscosity	mm^2/sec (SUS)	16-36 (80-170) {Cold start $\leq$ 1600mm^2/s for $\leq$ 3min}
Recommended Fluid		Mineral based oil, VG46 or VG32
Recommended Fluid Filtration level		20/18/15 to ISO 4406
Recommended Temp. Range	°C (°F)	-25 to 82 (-13 to 180)

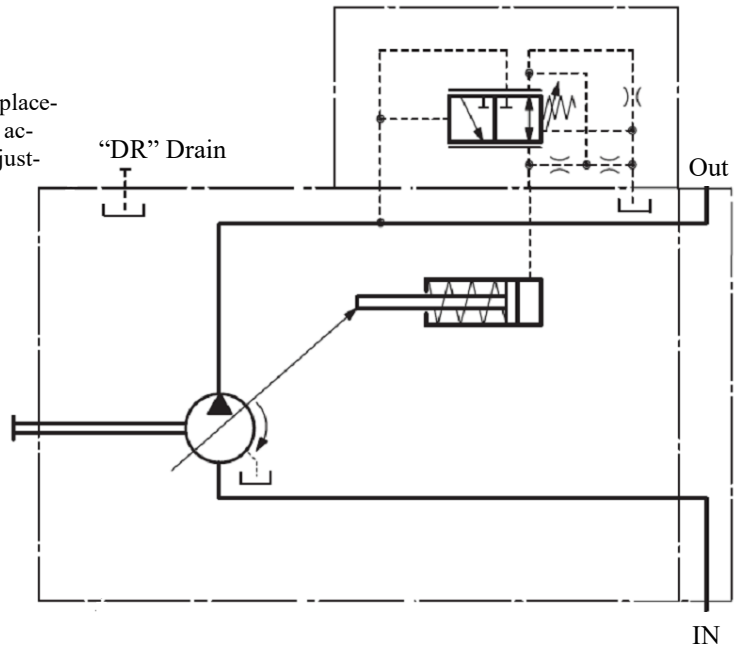
*Single duration <2ms, Total durations <300hours

Weight	Kg (lbs.)	7.8 (17)

Controller:

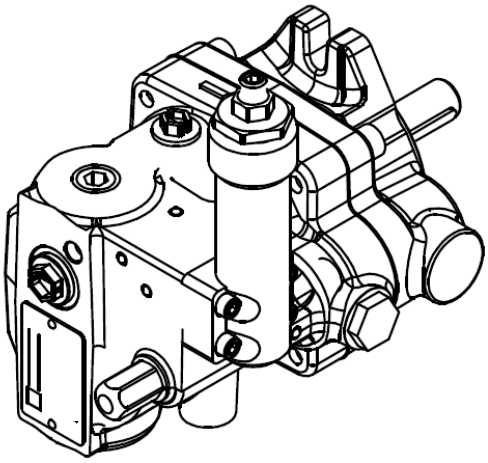
PR-Pressure Compensated

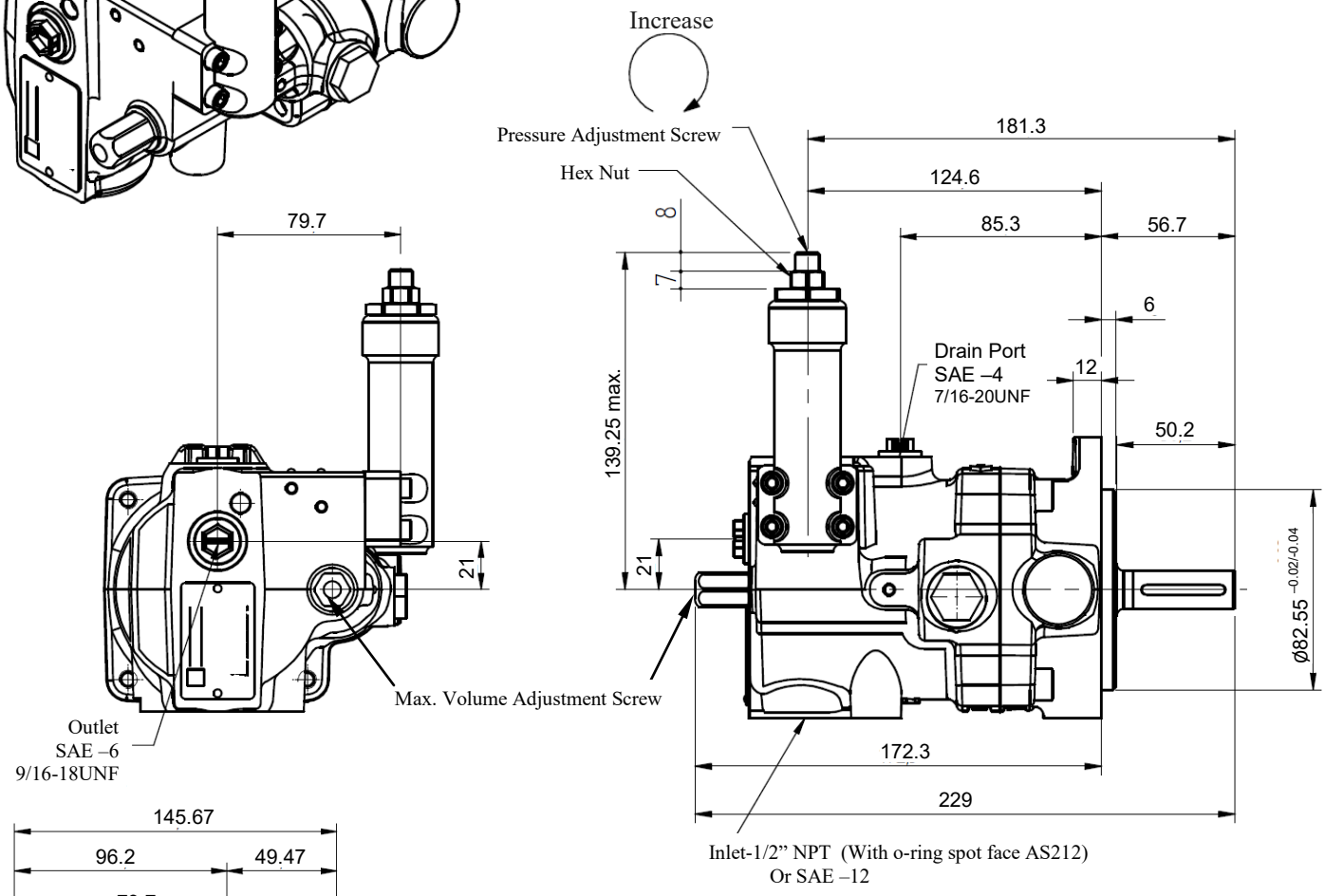
Controls the maximum pressure at port "Out" by varying the pump displacement. The pump will provide only the amount of fluid required by the actuators. The maximum pressure is set manually by an allen wrench adjustment on the compensator.

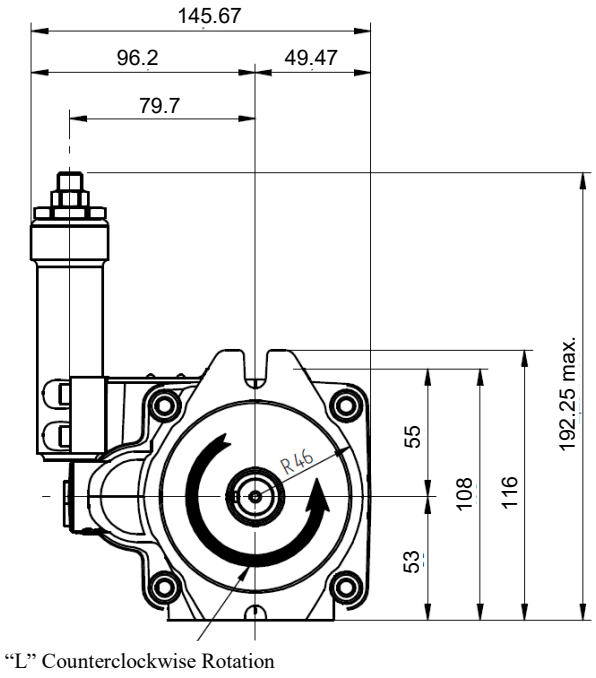


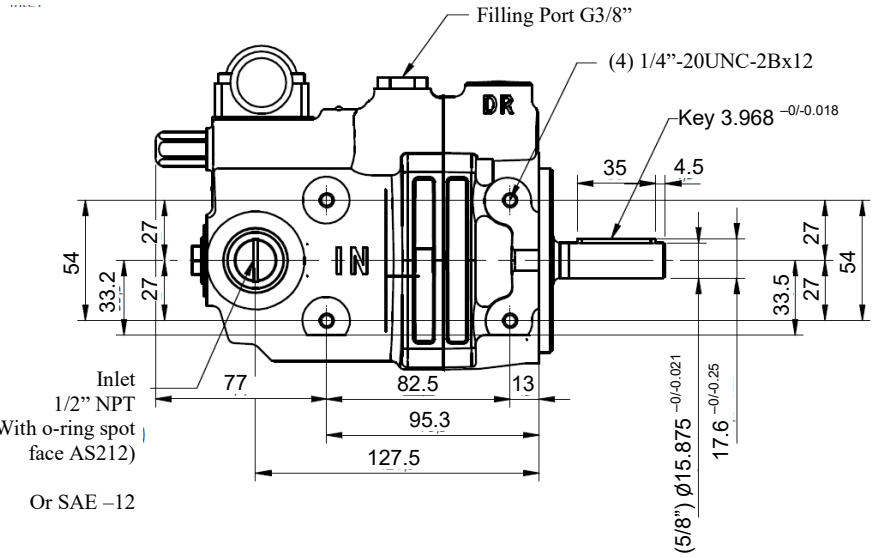
Dimensions, 8 cc/rev, “RS” option, rear and side ported:

Dimensions in mm







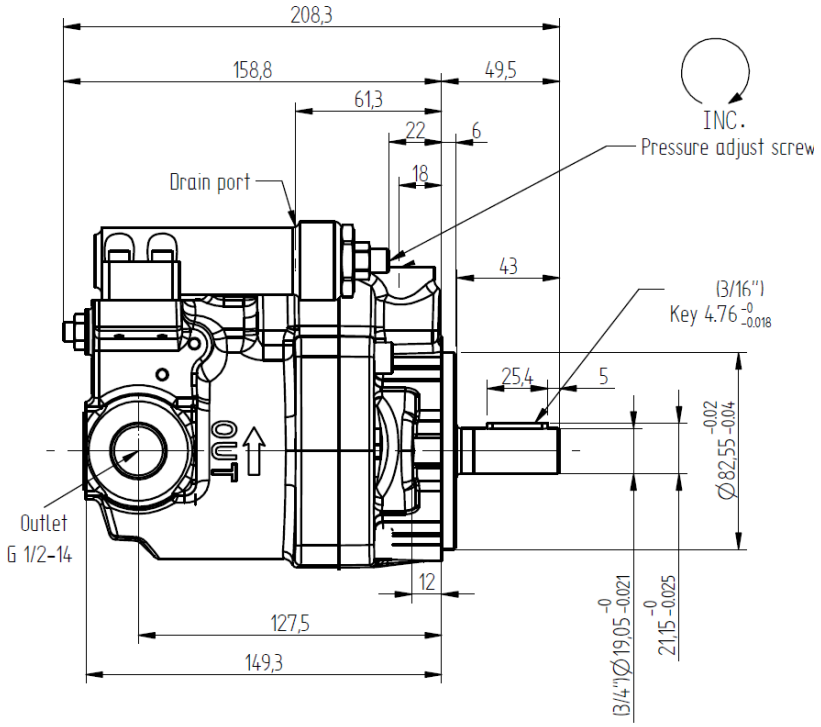


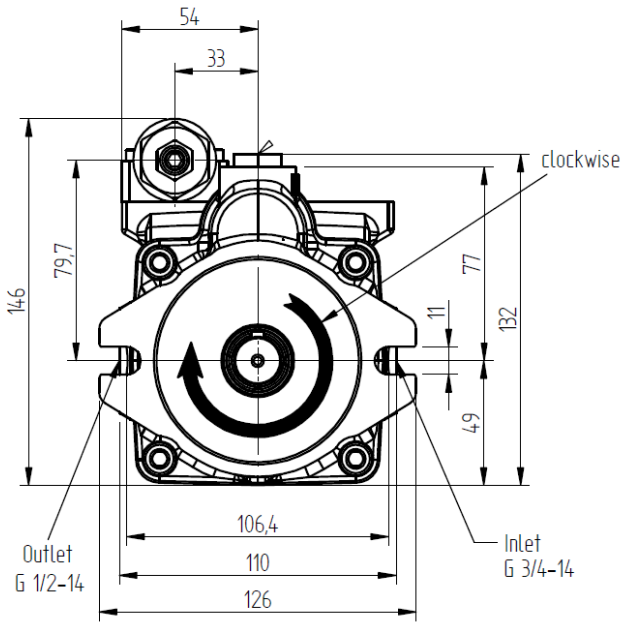
Note:

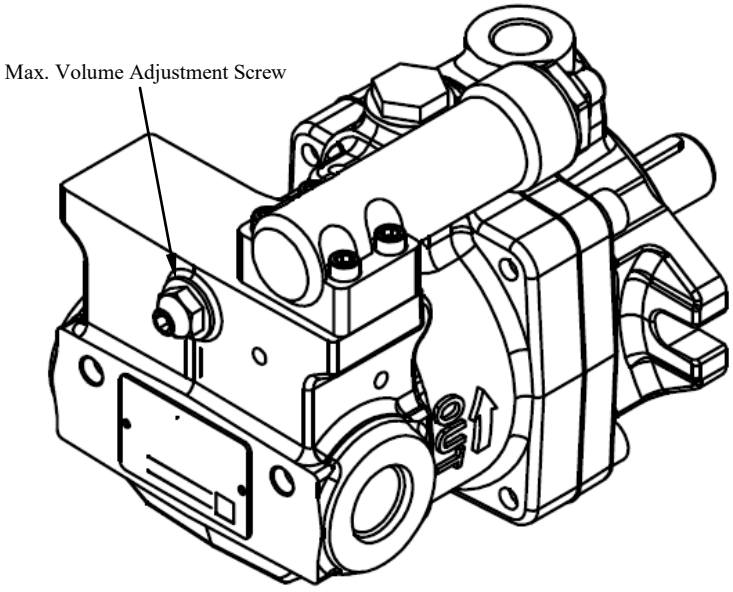
- Fill “Filling Port” before operating.

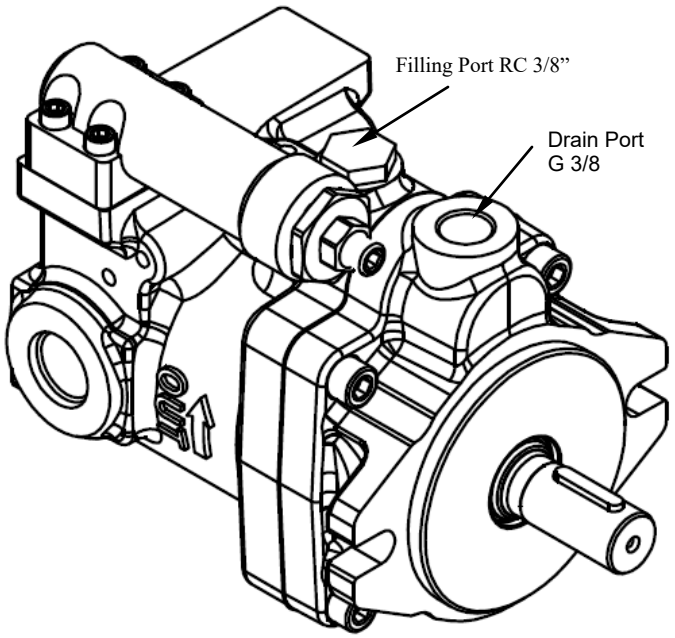
Dimensions, 8 cc/rev, “S” option, side ported:

Dimensions in mm









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