

HydraMotion[®]

Hydraulics Redefined™

PPAC Manual

REV-B



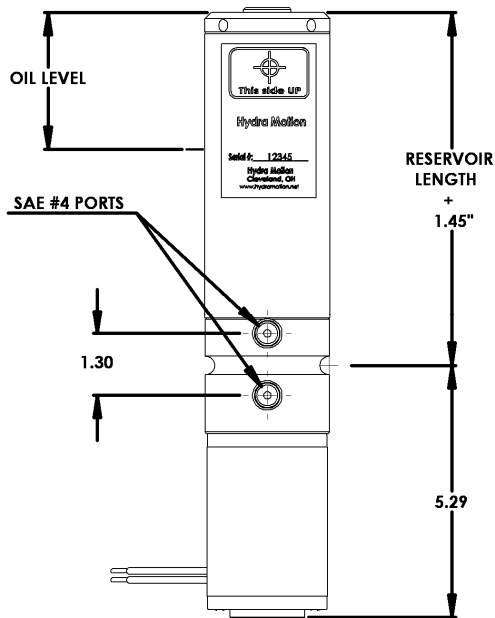
Pressure to 103 bar (1500 psi)
Flows to 2.0 lpm (½ gpm)

Compact power pac for
double acting hydraulic cylinders

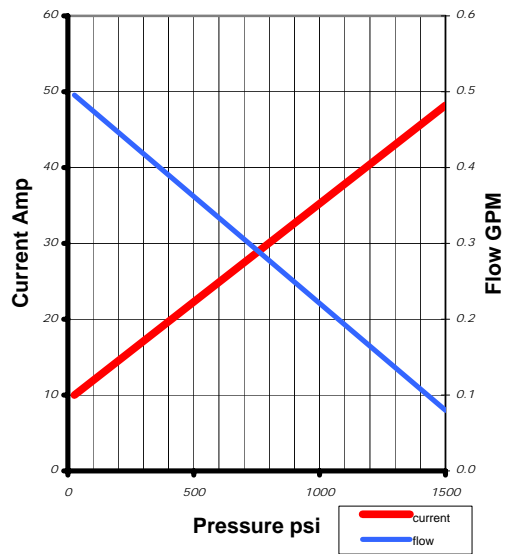
HydraMotion
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Cleveland, Ohio 44135
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216-362-7725 fax 216-362-0799

TECHNICAL DATA

- Aluminum exterior, except for the motor jacket
- Permanent magnet electric motor, 250Watts, 9.5v to 90v
- Ambient operating temperature, -20°F to 110°F
- Weight 4.55lbs with a 7in reservoir (0.05lbs/in of reservoir)
- Hydraulic fluid; ATF, OD18, or other clean hydraulic oil with a viscosity of 150 to 300 SUS at 38°C (100°F) is acceptable.
- Performance data based on ATF @ 21°C (70°F)

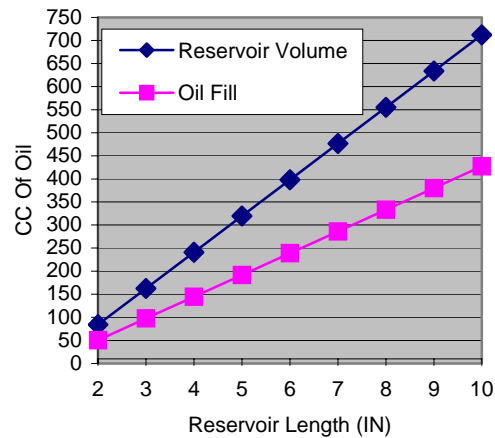
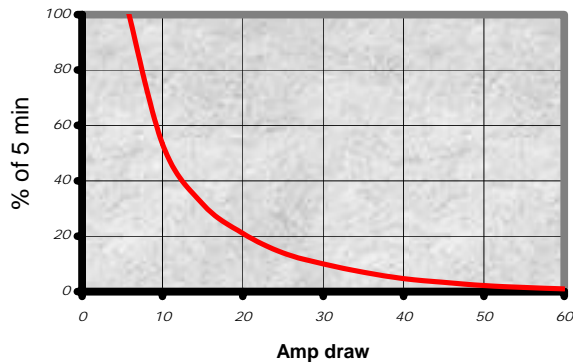


Pressure vs Flow & Current



PPAC Reservoir and Oil Fill

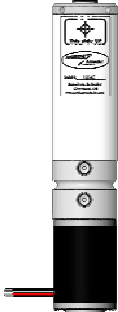
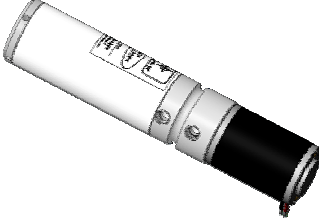
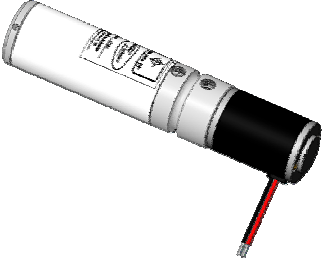
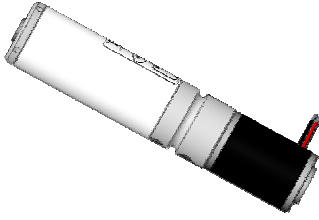
S3 (5 min) Duty Cycle



Performance data is for reference only

Installation

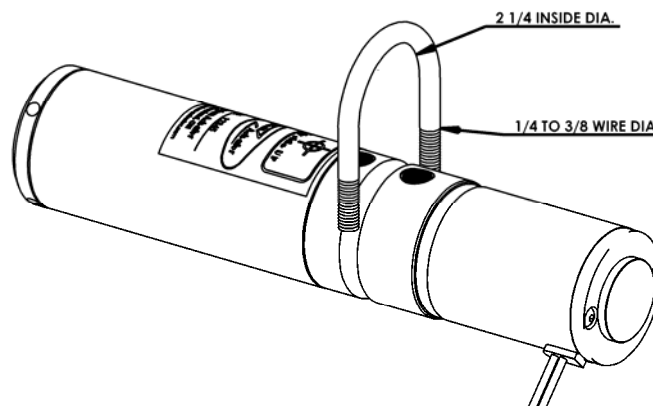
The PPAC can be configured in four different ways depending on your application requirements. The serial number sticker shows you the orientation of the PPAC as follows.

Vertical, Motor down		Horizontal Ports side	
Horizontal Ports up		Horizontal Ports down	

Note!!

Horizontal PPACs with 6 or more inch reservoirs can be used in Vertical Motor down orientation.

It is recommended that a wire “U” bracket be used to permanently mount the PPAC to a rigid support.



System priming and bleeding

System priming must be done with the PPAC in Vertical Motor Down position. This way you can check the amount of oil that is left in the reservoir. Prime and bleed out the air in the lines and cylinders. Use clean hydraulic fluid with a minimum viscosity of 25cSt @ 40°C. To help you determine the optimal amount of oil in the reservoir retract all the cylinders in the system. This increases the oil level in the reservoir. Measure the distance between the top of the reservoir and the fluid inside it. Use the following chart to determine the optimum distance related to the reservoir size.

!! DO NOT TOP-OFF THE RESERVOIR !!

Oil Level Measured From the End Cap									
Reservoir length	2	3	4	5	6	7	8	9	10
Oil Level	1.12	1.52	1.92	2.32	2.72	3.12	3.52	3.92	4.32

ATTENTION!!

Special care must be taken to prevent any dirt or contamination from getting inside the reservoir. This can damage the internal gears and check valves of the PPAC, and ultimately lead to lower operating pressures or drifting cylinders.

When the oil is at the required level seal the reservoir using the plug supplied. **The use of Teflon Tape to seal the threads is not recommended.** Instead, use pipe sealant paste on all pipe thread connections.

Double PPAC Option

- Two identical PPACs sharing the same reservoir
- Used in dual independent cylinder systems or systems that require twice the flow rate of a single PPAC
- Aluminum exterior, except for the motor jacket
- Permanent magnet electric motor, 250Watts, 9.5v to 90v
- Ambient operating temperature, -20°F to 110°F
- Hydraulic fluid; ATF, OD18, or other clean hydraulic oil with a viscosity of 150 to 300 SUS at 38°C (100°F) is acceptable.
- Refer to single PPAC for performance data

