PR+ REVERSING DC HYDRAULIC POWER UNIT

Backed with over 30 years of continuous development the new PR+ range of reversing pumps presents the ultimate in quiet and smooth operation. Unlike noisy piston pump designs the precision gear form delivers smooth flow in all conditions and with minimal noise. Now with IP67 motors that have a 4000 hour brush life these latest generation of Hydraulic Projects power units are the best available.



Description

A DC motor driven precision gear pump available with a range of flows from 0.6 to 2.5 L/min. Each pump is fitted with zero-leakage pilot check valves for positive locking of attached cylinders. The two service ports and reservoir port are mounted on the front of the pump. The threads are G1/4 (BSP) parallel. There is an optional second reservoir port on the top face accessed via a removable plug. Relief valves to limit the maximum pressure generated are available as an option.

The motors are maintenance free with internal brushes giving typically a 4000+ hour life. The front and rear bearings are sealed ball races for smooth and quiet operation. They have an Ingress Protection rating of IP67.

The pumps are sealed on the driven gear journal allowing the motors to be removed without air entering the hydraulic circuit. This feature also facilitates the fitting of users own motors with a suitable adaptor.

Application

Designed specifically for the marine autopilot market they are used by the worlds leading autopilot manufacturers. They can be used with balanced or unbalanced cylinders.

A selection guide for matching the drives to hydraulic steering cylinders is available on our website.

Due to their low noise and excellent performance they have found uses in many other and varied applications from window openers to sports car suspension lifters.

Features

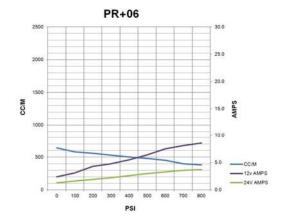
Quiet and smooth operation Low power consumption. Zero back drive check valves. 5 output options 12 and 24v D.C options. Relief Valve option. Port options. Compact size. Easy installation. G1/4 (BSP) ports (with NPTE

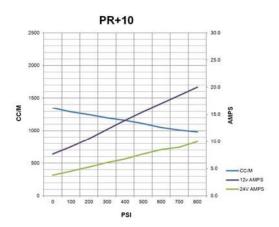
G1/4 (BSP) ports (with NPTF adapter kits available). Service kits available.

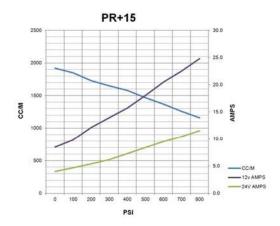
Cylinders and hose kits supplied to suit.

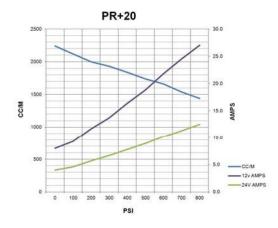
Performance Graphs Typical characteristics

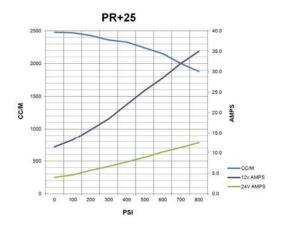
Q8 Auto 15 oil @ 25°C



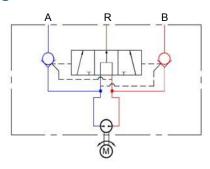








Circuit Diagram

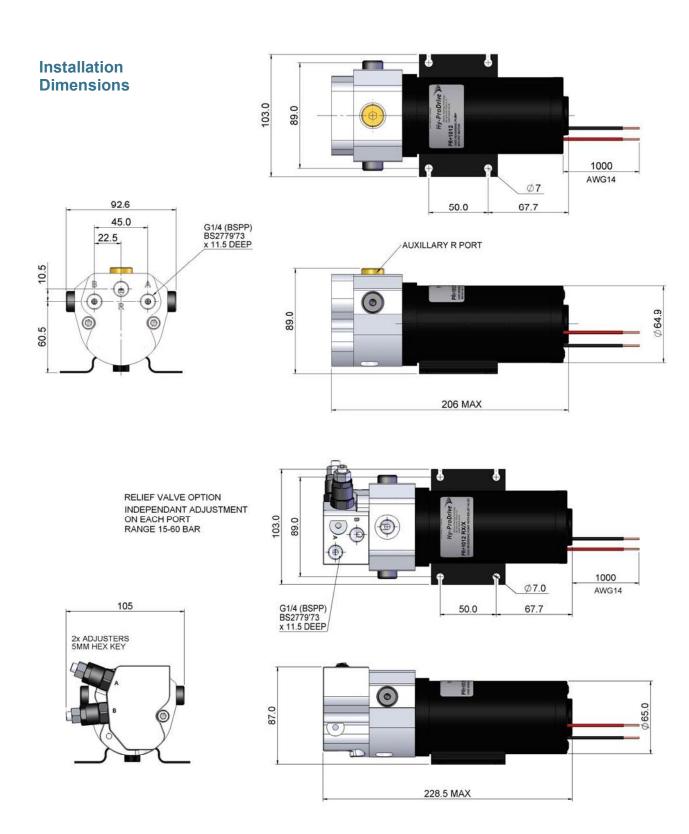


Technical data

recrimedi data					
Voltage	12 / 24 VDC				
Current	Typical amp-hour 5 bar at 25% duty 12v 24v		Typical current Intermittent 55 bar max 12v 24v		
PR+06 PR+10 PR+15 PR+20 PR+25	0.9 2.2 2.4 2.5 2.7	1.0 1.2 1.3 1.4	9.0 19.0 24.0 25.0 34.0	12.0	
Ingress Protection EMC Protection Ignition protection		IP67 BS EN 60945:2002 (DC) BS EN 28846:1993			
Ambient operating Temperature		-15 to +55 deg C			
Max Pressure Reservoir line			55 bar (intermittent operation) 2 bar Max		
Ports		G1/4 (BSPP) PA A = ram port B = ram port R = reservoir po			
Rotation	Red lead to - positive Pressure to A port Black lead to positive - Pressure to B port				
Hoses	Suitable for working pressure 55 bar. Minimum burst pressure 100 bar.				

ISO VG10 to VG40 Hydraulic mineral fluid meeting ISO 6743-4 HV

Fluid



Order Codes

