

Hydraulic Projects

Data Sheet UM_d

MARINE AUTOPILOT CYLINDER UNLOADER VALVE

The Autopilot Cylinder Unloader valve is a line mounted valve that is used to bypass the hydraulic steering cylinder to enable the boat to be steered manually. This 12 watt solenoid operated valve is available in 12 and 24 Vdc and can be used in systems up to 72 bar. Can be used with balanced and unbalanced cylinders.

Description

The solenoid operated unloader valve is a compact line mounted G1/4 ported manifold. The low power consumption 12 watt coils are available in 12 and 24Vdc variants.

With an anodized body and an IP55 rating this valve has been designed for the harsh marine environment.

Application

Designed to be used in autopilot steering applications, this valve is used to bypass the hydraulic steering cylinder so that manual steering can be used. It can be used with balanced cylinders or by connecting the additional port to a reservoir for unbalanced cylinders.

The design has been optimized to enable the coil to be energized for very long periods of time.

Features

Marine environment protected

Compact size.

12 or 24Vdc variants.

Low power consumption.

Used for balanced/unbalanced cylinders.

Line mounted.

Long energizing capacity.



Technical Data

Performance

Rated Flow	4.5 l/minute
$\Delta P @ 5 \text{ l/minute}$	0.7 bar
Maximum pressure	72 bar
Temperature rating: minimum	-20°C
Temperature rating: maximum	+65°C

Electrical

Coils	12 or 24 Vdc
Power	12 Watt
Protection	IP65
Cable \varnothing (not supplied)	6 - 8mm

Recommended Oil

Mineral based hydraulic	ISOVG37
Filtration (minimum)	25 micron

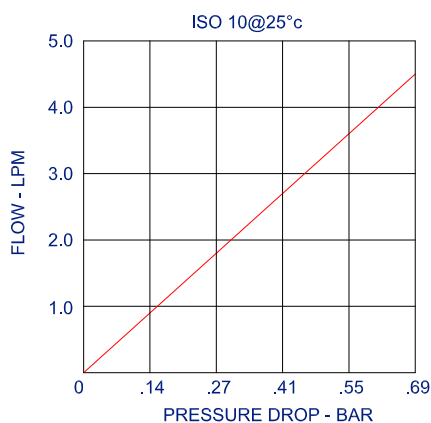
Materials

Body – Aluminium	BS1490
External protection- Anodizing	BS1615

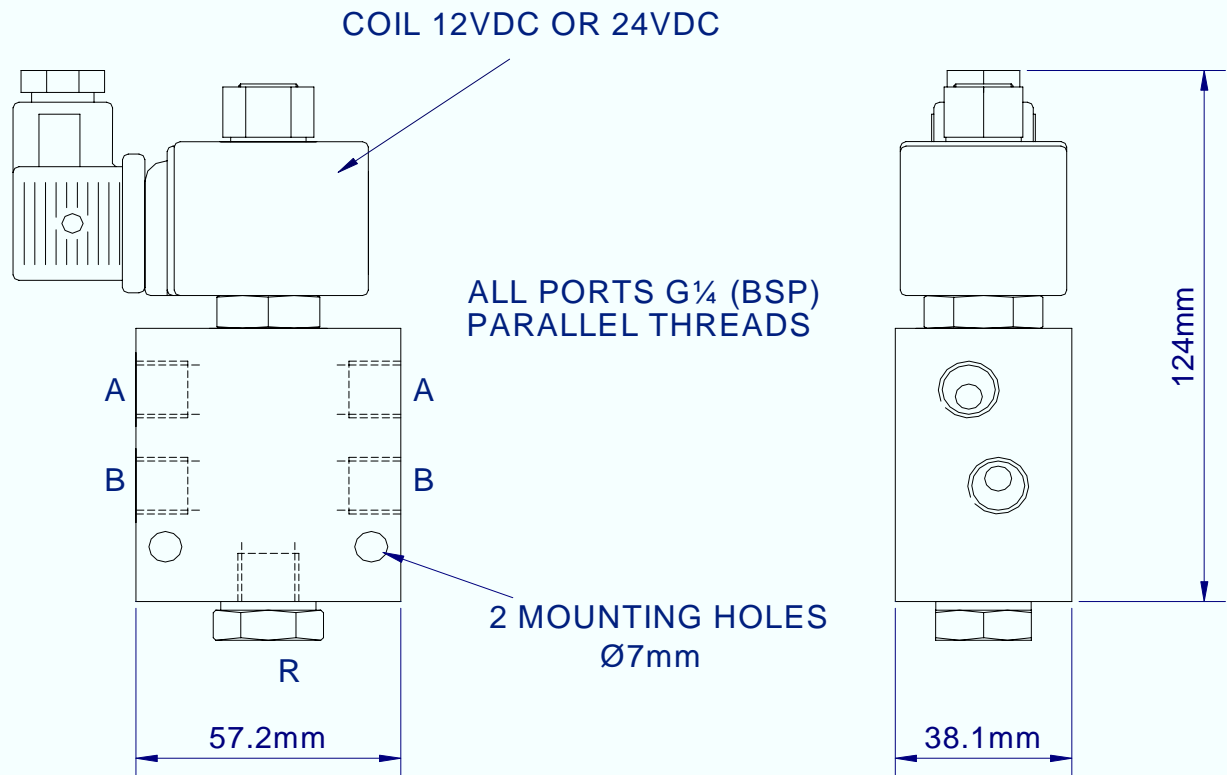
Weight

0.66 Kgs

PERFORMANCE

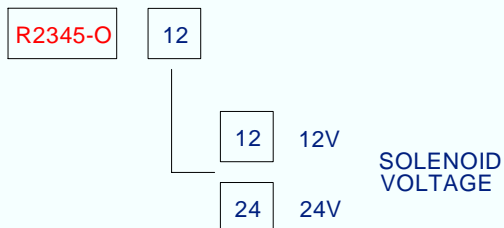


INSTALLATION DETAILS



THE R PORT MUST BE CONNECTED
TO THE SYSTEM RESERVOIR WHEN
USING AN UNBALANCED CYLINDER

ORDER CODE



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