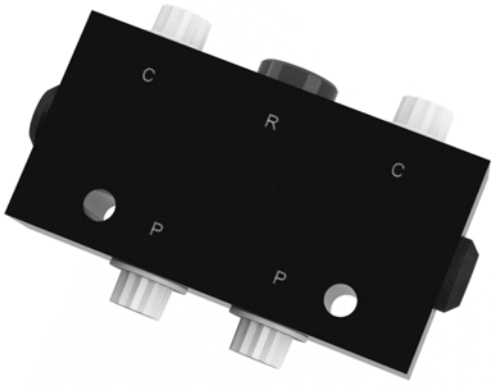
Hy-ProDrive
Marine Steering Technology
By Hydraulic Projects Ltd.



R2254

PILOT CHECK VALVE
FOR BALANCED OR UNBALANCED
CYLINDERS

www.hypro.co.uk

R2254-d iss.01

This precision engineered component was designed and manufactured in the United Kingdom.

Please keep this manual in a safe place

The information in this manual was, to the best of our knowledge, correct when it went to press and Hydraulic Projects Ltd cannot be liable for any inaccuracies or omissions. There may also be differences between the specifications in the manual and the product as a result of ongoing development for which we accept no liability.

IMPORTANT SAFETY INFORMATION

Failure to install and maintain this equipment in accordance with the instructions contained in this manual could result in damage or injury.

This equipment must be installed and maintained by a person who is qualified to do so. This equipment is only for use with marine auto pilots within the limitations stated in the following pages.

Auto pilot steering systems are navigational aids and the user must still maintain a permanent watch.

TECHNICAL DATA

Rated flow:	4.5 l/min
Maximum pressure:	72 bar
Pilot ratio:	2.25:1
Port size:	G1/4 (BSPP)
Ambient operating temperature:	-15 to + 55 deg C
Fluid:	ISO VG10 to VG40 hydraulic mineral fluid to ISO 6743-4 HV
Weight:	0.31 Kgs

DESCRIPTION

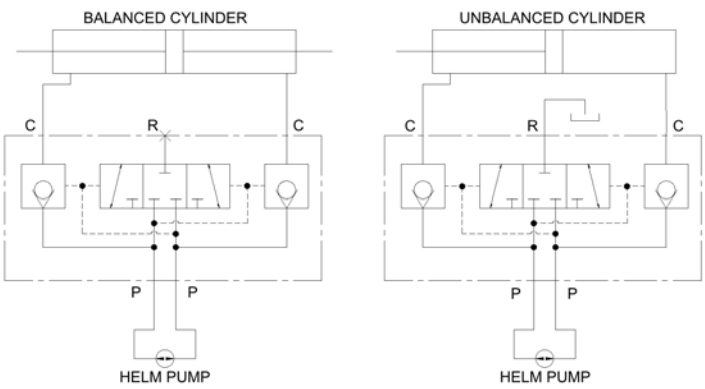
Designed to positively lock steering cylinders or, where an autopilot pump is fitted, to prevent the back drive of the helm steering wheel should the helm pump not have check valves.

It can be used with both balanced and unbalanced cylinders. Where an unbalanced cylinder is used the additional ‘R’ port is connected to the helm pump bottom reservoir port.

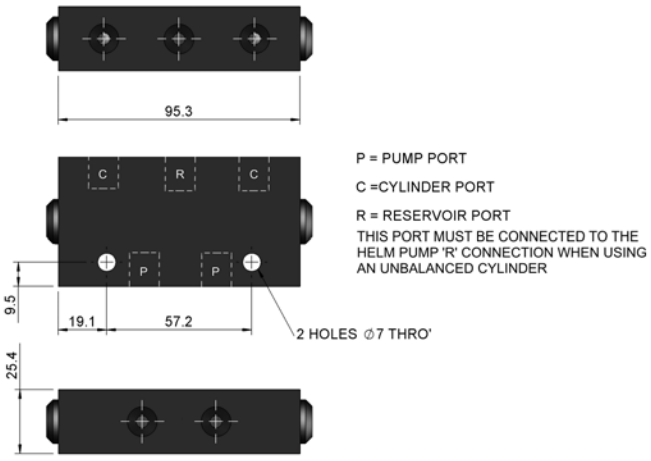
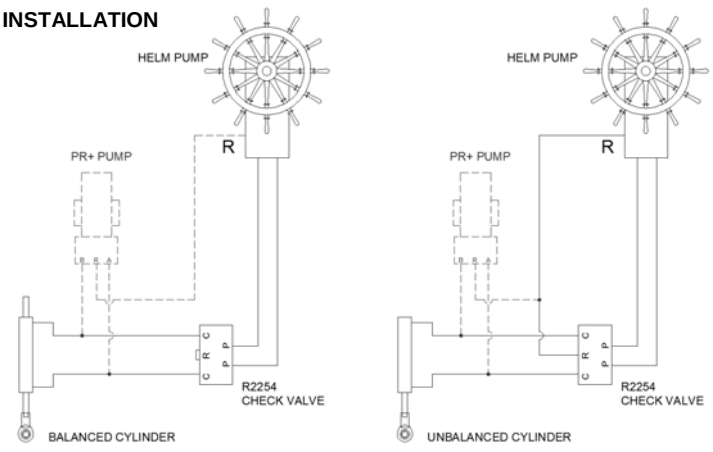
The body is made from anodized aluminium for protection against the harsh marine environment whilst the internal components are made from hardened and toughened steel for extended life.

OPERATION

The cylinder ports ‘C’ will remain closed until pressure is applied via the helm pump to the ’P’ ports. This unlocks the check valve and opens the port.



DIMENSIONS



INSTALLATION