

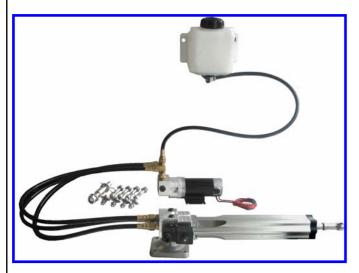
Data Sheet HS40PLUS_d

HS40*PLUS* HYDRAULIC STEERING SYSTEM

The HS40<u>PLUS</u> hydraulic steering systems are designed specifically for marine secondary steering applications.

They combine a hydraulic cylinder with clutch, reversing pump and reservoir in a compact installation.

The solenoid clutch disengages the hydraulic circuit allowing manual mechanical steering to be used in conjunction with the hydraulic system.



Description

A pre-filled hydraulic system comprising a cylinder with clutch, pump and reservoir.

The cylinder is free to float until the solenoid clutch is engaged, the reversing pump is then used to extend and retract it. Integral relief valves protect the installation from damage.

Application

Designed specifically for the marine autopilot market where they can be used on sailboats and power-craft with displacement and fast planing hulls. The pumps and cylinders can be matched to give the hard-over times and thrusts to suit the application.

Further combinations using our 5 reversing pump sizes are also possible. Please refer to our data sheet PR-d for details of the reversing pump range.

Features

Shorter than conventional cylinders.

Integral solenoid bypass valve and relief valves. Fully serviceable.

Quiet operation.

A number of pump sizes with 12 or 24v options. Marine environment protected (under-deck).

Low power consumption.

Fitting kit included.

Rudder reference/feedback option.

Low back-drive.

Quick release mounting.

Low profile.

Cylinder

Volume 293cc (Nominal)

Stroke 254mm Adjustment ± 5mm

Performance

Maximum thrust (intermittent) 675 kg

Hard over time HS40<u>plus</u>10 13 sec nominal Hard over time HS40<u>plus</u>20 9 sec nominal

Temperature rating minimum -20°c
Temperature rating maximum +65°c
Relief valve setting 62 bar
Back-drive at 12 sec Hard-over 7kg

Electrical

Motor voltage nominal 12 or 24v DC Motor power 100 watt Max current 12v 25% duty 22.5 A

Max current 24v 25% duty

Max current 24v 25% duty

Rotation

Protection

11.2 A

Reversing

IP44

Connection 1m Flying Lead 2 Core 2.5mm²

Ignition protection BS EN 28846:1993
Clutch Coil power continuous 12 watt

Connection DIN 43650
Orientation Red lead Positive
Cylinder Retracts

Oil

Recommended Q8 Dynobear 10

Equivalent Mineral based hydraulic

Min. ISO VG10 Max. ISO VG40

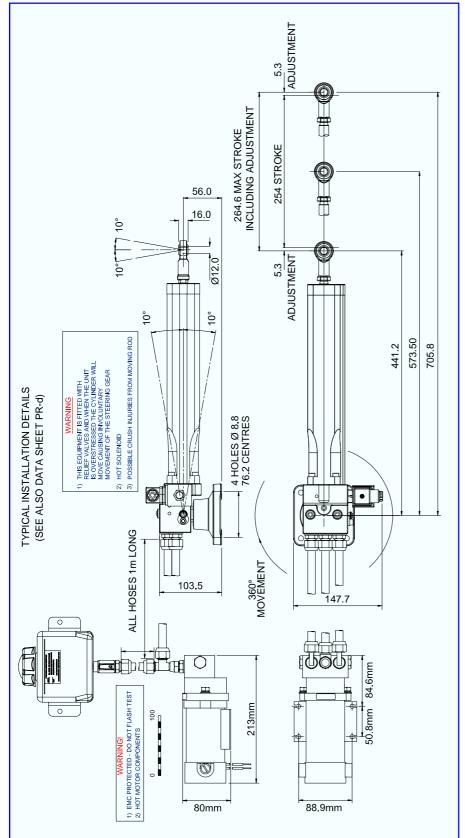
Materials

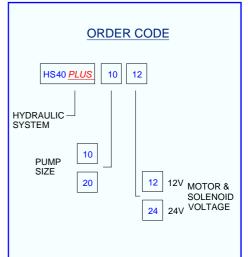
Body Aluminium BS 1490 Cylinder rod Chrome Plated Stainless

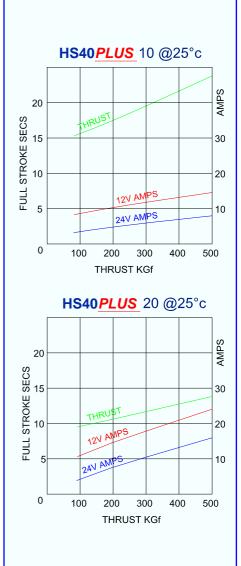
Steel

Seals Nitrile & PTFE
Body Protection SP270
System Weight 11 kg Gross









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