

Hydraulic Projects

Data Sheet HS_d

HS50 HYDRAULIC STEERING SYSTEM

The HS hydraulic steering systems are designed specifically for marine secondary steering applications. They come fitted with either a 2.5lpm reversing pump or two sizes of constant running pumps. The systems are protected by integral relief valves. A solenoid clutch is also fitted so that manual mechanical steering can be used.

Description

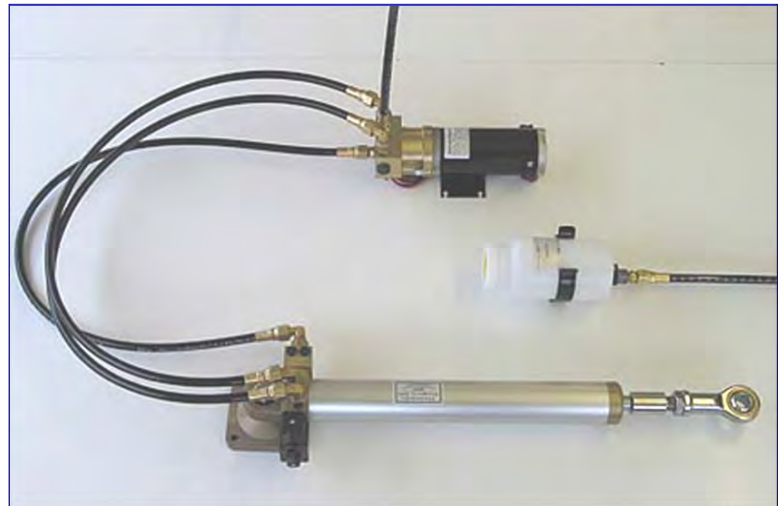
The hydraulic steering systems comprise of a compact cylinder which includes the relief valves and solenoid clutch, a reversing or constant running pump, marine hoses, fittings and a reservoir. The system comes filled ready for installation. A choice of pump sizes can be selected with single or twin cylinders to give a range of hard-over times and thrusts.

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.

Features

- Shorter than conventional cylinders.
- Solenoid bypass valve.
- Integral relief valves.
- 12 or 24V options.
- Installation kits available.
- Fully serviceable.
- Quiet operation.
- Reversing pump option.
- Two constant running pump options.
- Twin cylinder options
- Marinised hoses and fittings.
- Low maintenance.
- Replaceable brushes.
- Low power consumption.



Technical Data

For Pump details refer data sheets PRd, PC25d & PC45d

Performance

Thrust at 62 bar	1080 kgs
Stroke of cylinder	305 mm
Volume of cylinder	553 cc
Relief valve setting	62 bar
Temperature rating minimum	-20°C
Temperature rating maximum	+65°C
Hard over time typical	See graph
Protection	IP44

Electrical

Clutch Coil power continuous	12 watt
Connection	DIN 43650
Protection	IP65
Cable Ø (not supplied)	6 - 8mm

Oil

Recommended	Q8 Dynobear 10
Equivalent	Mineral based hydraulic
	Min. ISO VG10
	Max. ISO VG40

Materials

Body aluminium	Aluminium BS1490
Piston rod	Stainless steel chrome plated
Seals	Nitrile & PTFE
Body Protection	SP270

Weights Typical

HS50SA2524	14.0 Kgs
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