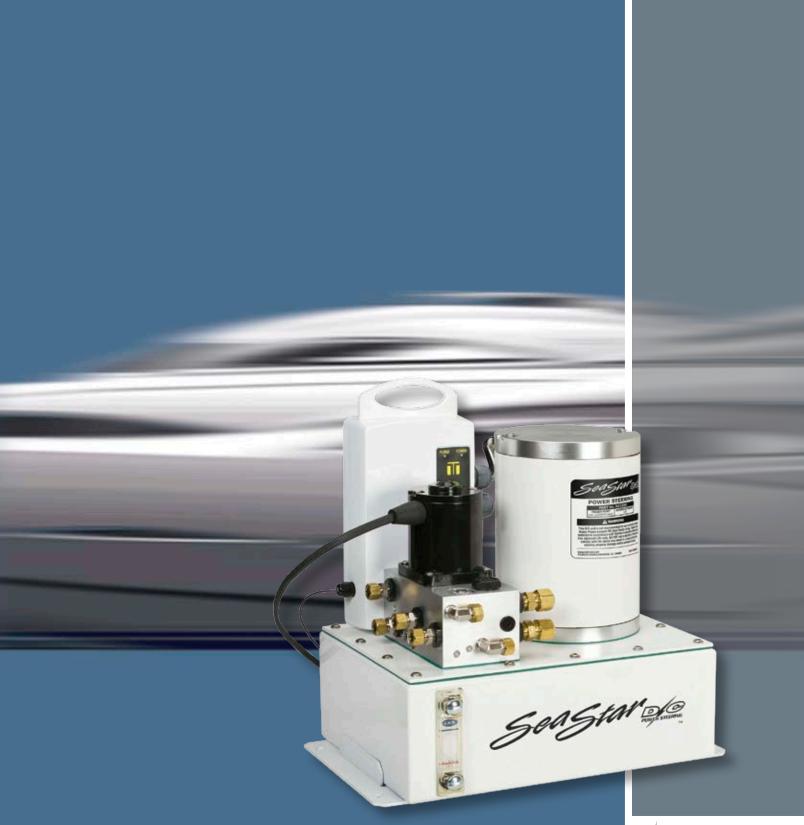
SEASTAR"

DC POWER STEERING



SEASTAR SOLUTIONS®



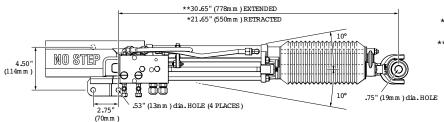


## **CYLINDER SELECTION GUIDE LINE**

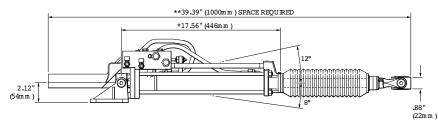
\*All boats over 70' should have steering loads reviewed by factory

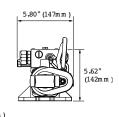
CYLINDER GUIDE	DISPLACEMENT HULLS (STD)	DISPLACEMENT HULLS (HEAVYDUTY)	PLANING HULLS
SINGLE - 9" X 2" CYL (HC5801-2)	UP TO50' (15m)	UP TO40' (12m)	UP TO65' (20m)
TWIN - 9" X 2" CYL (HC5802 & HC5801-2)	UP TO75' (22m)	UP TO55' (17m)	UP TO85' (26m)
SINGLE - 11" X 2" CYL (HC5803-2)	UP TO60' (18m)	UP TO50' (15m)	UP TO75' (23m)
TWIN - 11" x 2" CYL (HC5804 & HC5803-2)	UP TO100' (31m)	UP TO70' (22m)	UP TO110' (34m)
*SINGLE - 9" X 2.5" CYL (HC5805)	UP TO85' (26m)	UP TO60' (18m)	UP TO100' (31m)

\* 2.5" cylinder bore (Twin applications require conventional engine driven pump power steering.)



- \* Add 2" (50mm) to this dimension for HC5803-2
- \*\* Add 4" (101mm) to this dimension for HC5803-2





CYLINDER SPECIFICATION	DISPLACEMENT	BORE	STROKE	OUTPUT FORCE	MAX. TORQUE (35° from Ctr)
SINGLE - 9" X 2" CYL (HC5801-2)	21.25 in³ (348cc)	2.0" (51mm)	9" (229mm)	2946 lbsf (13,090 N)	18,900 in-lbs (217kg/m)
TWIN - 9" X 2" CYL (HC5802 & HC5801-2)	42.50 in <sup>3</sup> (697cc)	2.0" (51mm)	9" (229mm)	5892 lbsf (26,190 N)	37,800 in-lbs (435kg/m)
SINGLE - 11" X 2" CYL (HC5803-2)	26.00 in <sup>3</sup> (426cc)	2.0" (51mm)	11" (280mm)	2946 lbsf (13,090 N)	23,140 in-lbs (266kg/m)
TWIN - 11" X 2" CYL (HC5804 & HC5803-2)	52.00 in³ (853cc)	2.0" (51mm)	11" (280mm)	5892 lbsf (26,190 N)	46,280 in-lbs (533kg/m)
SINGLE - 9" X 2.5" CYL (HC5805)	37.11 in³ (608cc)	2.5" (64mm)	9" (229mm)	5154 lbsf (22,926 N)	33,065 in-lbs (380kg/m)

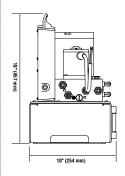
#### **HELM SELECTION GUIDE**

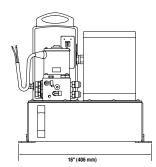
HELM	HC5801-2	HC5803-2	HC5805
SEASTAR 1.4 in <sup>3</sup>	4.3 turns	5.3 turns	4.3 turns
SEASTAR 1.7 in <sup>3</sup>	3.6 turns	4.4 turns	3.6 turns

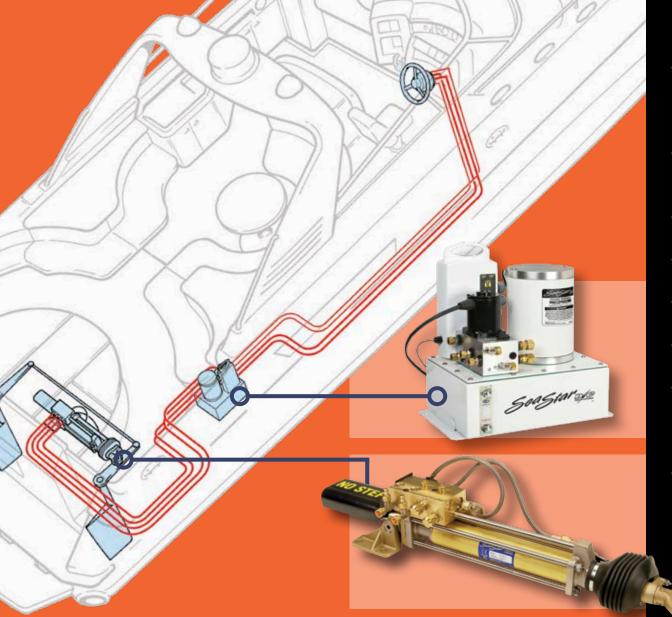
Number of turns lock to lock (for a given helm/cyl combination)

## DC POWER UNIT SPECIFICATIONS

DC1000	DC2000
Main Motor: 24 Volts	Main Motor: 24 Volts
Autopilot Motor: 12 Volts	Autopilot Motor: 24 Volts
Peak Current Draw @ 1250 psi: 72 amps	Peak Current Draw @ 1250 psi: 72 amps
Idle Current Draw: 0.2 amps max	Idle Current Draw: 0.2 amps max
Average Current Draw: 10-12 amps (Depending on application)	Average Current Draw: 10-12 amps (Depending on application)
Weight: 55lbs 25kg (Dry weight)	Weight: 55lbs 25kg (Dry weight)
Tank Capacity 7 Liters	Tank Capacity 7 Liters
Adjustable Flow Autopilot: 0 – 60 in³/min (984cc)	Adjustable Flow Autopilot: 0 – 60 in³/min (984cc)







# DC POWER STEERING UNIT - KEY FEATURES

## Easy to Spec and Install

Covers most power steering requirements. No need to determine required flow rate, engine pump spec, engine connectivity. The system is economically powered from the boats 24v supply.

## Semi-Auto Purge

During service and/or installation a semi-auto purge feature is engaged dramatically reducing installation time and air in the system.

#### **Few Components**

Totally self-contained, there is no longer any need to install separate filters, coolers, engine pumps, flow control valves. The DC power unit covers all requirements within one easy to install module.

#### 100% Performance, 100% of the time

Provides the maximum required hydraulic oil flow, at all engine speeds.

#### On Demand Power

The DC Power Unit only draws power when a turn is initiated (typical duty time 5-10%). This ensures minimal power consumption, no wasted energy and longer filter and motor life.

## Integrated Autopilot Pump

The system includes a secondary pump with adjustable flow that can be controlled by most autopilot controllers.

#### **FEATURES**

- Highly responsive, effortless steering performance at all speeds
- Low number of turns lock to lock (based on helm selection)
- Few components to spec and install
- Semi-Auto purge feature
- Suitable for multistation applications
- Integrated autopilot pump
- Suitable for use with most SeaStar helms (including tilt versions)
- Automatic manual back up system

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