

COMPONENTS

Hynautic H-20 helm (1" straight shaft)	H-21 or					
Hynautic H-20 helm (3/4" tapered shaft)	H-25 or					
Hynautic H-40 helm (1" straight shaft)	H-42 or					
Hynautic H-40 helm (3/4" tapered shaft)	H-42-02 or					
Hynautic H-40 helm (1" straight shaft)	H-41 or					
Hynautic H-40 helm (3/4" tapered shaft)	H-41-02					
H-20 Fittings Kit for Main Station	HF-10					
H-40 Fittings Kit for Main Station	HF-21					
Inboard Cylinder	HC5350					
Reservoir - Standard (2 quart)	HP5810HY					
Relief Valve (950 PSI)	MSV-21					
Relief Fittings (1150 & 1175-21-1)	MSVF-07					
Relief Fittings (1175-42-1 & up)	MSVF-13					
Copper Tubing	1/2" or 5/8" OD					
Fitting Kit (for 1/2" Copper Tubing)	HF5590 or					
Fitting Kit (for 5/8" Copper Tubing)	HF5592					
Hose Kit for Copper Tubing (2 hoses)	HA5731					
SeaStar Oil (1 Gallon)	HA5440					
OPTIONS						
Pivot Mount Inboard Cylinder	K-31					
Dual Cylinder Hose 2' (.6m)	HA5732					
Dual Cylinder Hose 3' (.9m)	HA5733					
Dual Cylinder Hose 4' (1.2m)	HA5734					
Dual Cylinder Hose 5' (1.5m)	HA5735					
Dual Cylinder Hose 6' (1.8m)	HA5736					
Relief Valve (500 PSI)	MSV-19					
Reservalve (500 PSI, top read, 3/8)	Obsolete					
Reservalve (500 PSI, top read, 3/8, w/pump)	Obsolete					
Reservalve (500 PSI, top read, 5/16, w/pump)	Obsolete					

HYNAUTIC 3-LINE HEAVY DUTY HYDRAULIC STEERING SYSTEM:

SeaStar offers rugged 3-line Hynautic Heavy Duty steering systems for most work and pleasure vessels up to 70 feet.

Heavy Duty helms combine one or two bi-directional axial piston pumps with pilot check and make-up check valving. The result is a unit which prevents rudder feedback, is very efficient (even at low RPM), and is immediately adaptable to multi-station use.

A wide choice of helm displacements and cylinder configurations make it easy to spec a system which can handle a variety of large boat performance requirements and accommodate most user preferences.

FEATURES:

- Low friction heavy duty hydraulic steering.
- Helm/cylinder combinations for most inboards. Marine grade materials.
- Heavy duty helms available in three displacements, to accommodate most applications and user preferences.
- Helms available with 1" straight shaft or 3/4" tapered. Mount facing any direction.
- Quick air purge relief valve.
- Fluid fill at remote reservoir.
- Heavy duty brass cylinders. Two-axis articulation. Easy installation for single or dual rudder vessels.
- Meets or exceeds applicable standards.
- Accepts most steering wheels.

Reservalve (950 PSI, top read, 5/16)	Obsolete					
Reservalve (950 PSI, frt.read, 5/16, w/pump)	Obsolete					
H-20 Fittings Kit for Second Station	HF-11					
H-40 Fittings Kit for Second Station	HF-22					
SERVICE ITEMS						
Relief Valve (500 PSI)	MSV-19					
Reservalve (500 PSI, top read, 3/8)	Obsolete					
Reservalve (500 PSI, top read, 3/8, w/pump)	Obsolete					
Reservalve (500 PSI, top read, 5/16, w/pump)	Obsolete					
SeaStar Oil (1 Gallon)	HA5440					

WE RECOMMEND

The use of SeaStar Steering Fluid ONLY in our hydraulic steering systems. See Page 148



APPLICATION GUIDE: HYNAUTIC 3-LINE INBOARD STEERING

FOR VESSEL SIZES UP TO:	HELM PUMP MODEL	STEERING WHEEL TURNS	REQUIRES CYLINDER MODEL (2x = 2 cylinders)	DIAM when o from Cy	BING IETERS distance ylinder to : Helm is: 40 Feet or More	MAX. MAX. SUGG. H.P.	SUGG. AREA FEET (meters)
PLANING HULLS:							
35-50' (11-15m)	H-21 or H-25	5.0	HC5350 or HC5356	1/2″	5/8″	450	
40-50' (10-18m)	H-21 or H-25	6.8	HC5351 or HC5357	1/2″	5/8″	750	_
40-50' (10-18m)	H-42	4.7	HC5351 or HC5357	1/2″	5/8″	750	_
45-60' (14-18m)	H-42	7.4	HC5378 or HC5379	1/2″	5/8″	950	_
45-60' (14-18m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	950	_
55-65' (17-20m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	1200	_
to 70' (to 21m)	H-41	10.8	2x HC5378 or HC5379	1/2″	5/8″	1500	—
to 70' (to 21m)	H-41	14.2	2x K-8	1/2″	5/8″	1500	_
DISPLACEMENT HU							
to 30' (6-9m)	H-21 or H-25	5, NET HAULE	HC5350 or HC5356	1/2″	5/8″	200	_
30-35' (6-11m)	H-21 or H-25	6.8	HC5351 or HC5357	1/2″	5/8″	250	_
30-35' (6-11m)	H-42	4.7	HC5351 or HC5357	1/2″	5/8″	250	_
26-40' (8-12m)	H-42	7.4	HC5378 or HC5379	1/2″	5/8″	400	_
26-40' (8-12m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	400	—
30-45' (9-14m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	450	_
to 50' (to 15m)	H-41	10.8	2x HC5378 or HC5379	1/2″	5/8″	500	—
to 50' (to 15m)	H-41	14.2	2x K-8	1/2″	5/8″	500	—
to 50' (to 15m)	H-41	20.0	2x K-9	1/2″	5/8″	500	—
DISPLACEMENT HU	IIIS — WORK & P						
to 40' (9-12m)	H-21 or H-25	5.0	HC5350 or HC5356	1/2″	5/8″	300	
40-45' (12-14m)	H-21 or H-25	6.8	HC5351 or HC5357	1/2″	5/8″	350	_
40-45' (12-14m)	H-42	4.7	HC5351 or HC5357	1/2″	5/8″	350	_
40-55' (12-17m)	H-42	7.4	HC5378 or HC5379	1/2″	5/8″	500	_
40-55' (12-17m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	500	_
45-65' (14-20m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	650	—
to 75' (to 23m)	H-41	10.8	2x HC5378 or HC5379	1/2″	5/8″	750	—
to 75' (to 23m)	H-41	14.2	2x K-8	1/2″	5/8″	750	_
SAILBOATS — SKEG							Max. Area
to 40' (9-12m)	H-21 or H-25	5.0	HC5350 or HC5356	1/2″	5/8″	_	9 (.9)
40-45' (12-14m)	H-21 or H-25	6.8	HC5351 or HC5357	1/2″	5/8″		10 (1)
40-45' (12-14m)	H-42	4.7	HC5351 or HC5357	1/2″	5/8″	_	10 (1)
40-52' (12-16m)	H-42	7.4	HC5378 or HC5379	1/2″	5/8″	—	17 (1.6)
40-52' (12-16m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	_	17 (1.6)
50-60' (15-18m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	—	18 (1.7)
to 65' (to 20m)	H-41	10.8	2x HC5378 or HC5379	1/2″	5/8″	—	20 (1.9)
to 65' (to 20m)	H-41	14.2	2x K-8	1/2″	5/8″	—	20 (1.9)
SAILBOATS — SPAD	e Rudder:	<u>2</u>					
to 40' (9-12m)	H-21 or H-25	5.0	HC5350 or HC5356	1/2″	5/8″	_	7 (.6)
40-45' (12-14m)	H-21 or H-25	6.8	HC5351 or HC5357	1/2″	5/8″	—	8 (.7)
40-45' (12-14m)	H-42	4.7	HC5351 or HC5357	1/2″	5/8″	—	8 (.7)
35-46' (11-16m)	H-42	7.4	HC5378 or HC5379	1/2″	5/8″		15 (1.4)
35-46' (11-16m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	—	15 (1.4)
40-50' (12-15m)	H-41	5.4	HC5378 or HC5379	1/2″	5/8″	—	15.5 (1.4)
to 60' (to 18m) to 60' (to 18m)	H-41 H-41	10.8 14.2	2x HC5378 or HC5379 2x K-8	1/2″ 1/2″	5/8″ 5/8″		16.5 (1.5) 16.5 (1.5)
	11-71	17.4	24 11-0	1/2	5/0		10.0 (1.0)



