

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 144



APPLICATION GUIDE: HYNAUTIC 3-LINE INBOARD STEERING

FOR VESSEL	HELM	STEEDING	REQUIRES	DIAN when o from C	BING IETERS distance ylinder to t Helm is:	MAX.	SUGG.	
		STEERING	CYLINDER			MAX.	AREA	
SIZES	PUMP	WHEEL	MODEL	40 Feet	40 Feet	SUGG.	FEET	
UP TO:	MODEL	TURNS	(2x = 2 cylinders)	or Less	or More	H.P.	(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				1 (0)	- 10 4			
to 30' (6-9m)	H-21 or H-25	5.0	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 10.8	HC5378 or HC5379	1/2″	5/8"	450 500	_	
to 50' (to 15m) to 50' (to 15m)	H-41 H-41	10.8	2x HC5378 or HC5379 2x K-8	1/2″ 1/2″	5/8″ 5/8″	500	_	
to 50' (to 15m)	H-41	20.0	2x K-8 2x K-9	1/2″	5/8″	500	_	
	11-41	20.0	27 11-2	1/2	5/0	500		
DISPLACEMENT HU	LLS — WORK & P	LEASURE BOA	TS:					
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	_	
)					Max Area	
SAILBOATS — SKEG to 40' (9-12m)	H-21 or H-25	5.0	HC5350 or HC5356	1/2″	5/8″		<u>Max. Area</u> 9 (.9)	
40-45' (12-14m)	H-21 or H-25	6.8	HC5350 or HC5350 HC5351 or HC5357	1/2″	5/8″	_	⁹ (.9) 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)	
		2						
SAILBOATS — SPAD to 40' (9-12m)	E RUDDER: === 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	5.0 6.8	HC5350 or HC5356 HC5351 or HC5357	1/2 1/2″	5/8"		7 (.6) 8 (.7)	
40-45' (12-14m)	H-42	6.8 4.7	HC5351 or HC5357	1/2	5/8″	_	8 (.7) 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)	H-41	10.8	2x HC5378 or HC5379	1/2″	5/8″	_	16.5 (1.5)	
to 60' (to 18m)	H-41	14.2	2x K-8	1/2″	5/8″	_	16.5 (1.5)	

