

**AT A GLANCE**

**FEATURES**

- Low friction hydraulic steering system.
- Configurations for most inboards.
- Compact helm has only a 4-7/16" foot print — needs only 3" dash hole (Tilt requires larger hole).
- Standard 3/4" tapered steering shaft.
- Easy installation on single or dual rudders.
- Adjustable O-ring sealed fittings c/w bleeder fittings
- Anodized aluminum or heavy duty brass cylinders.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.
- Accepts steering wheels to 28" (20" for Tilt)



## SEASTAR INBOARD 2-LINE HYDRAULIC STEERING SYSTEM

The most popular inboard hydraulic steering system offers unmatched comfort and control for today's inboards up to 50 feet. A wide range of helm and cylinder displacements covers most applications.

### APPLICATIONS

Most inboard powered boats with single or dual engines: single engine planing/displacement hull craft from 26-44 feet; dual engine planing hull craft from 26-50 feet; dual engine displacement hull & sail craft from 26-44 feet. Suitable for dual station use with purchase of extra hardware.

### HOW TO SPEC A SYSTEM:

1. From the application guide select the System Number appropriate for the vessel based on:
  - a) hull type — displacement or planing;
  - b) length of vessel;
  - c) number of rudders; and
  - d) usage of vessel.
2. From the ordering guide select the appropriate helm and accessory hardware for each steering station.
3. Select fitting/hose kits required from the ordering guide.
4. Confirm that there is sufficient space available in the dash and engine compartment(s) for the steering components. Review helm and cylinder dimensions at the end of this section.

### ORDER INFORMATION

COMPLETE SYSTEMS	
System components sold separately. See application and ordering guides to select appropriate components.	
SeaStar 1.7 Helm	HH5271
SeaStar 2.4 Helm	HH5272
Inboard Cylinder	HC5313-3
3/8" Tubing	HT5_ _ or copper
Fitting Kit (for Copper Tubing/1.7 helm)	HF5507
Hose Kit for Copper Tubing (2 hoses)	HF5508
SeaStar Oil (1 Quart Mil Spec H5606)	HA5430



## ORDER INFORMATION

OPTIONS	
SeaStar 1.7 - Front Mt. Commercial Helm	HH5217
SeaStar 1.7 - Rear Mount Helm	HH5261
SeaStar 1.7 - Sport Tilt Helm	HH6191
SeaStar 1.7 - Classic Tilt Helm	HH6541
SeaStar 2.4 - Front Mt. Commercial Helm	HH5224
SeaStar 2.4 - Sport Tilt Helm	HH6192
SeaStar 2.4 - Classic Tilt Helm	HH6542
SeaStar Round Bezel Kit	HA5478
SeaStar Backplate Kit	HA5418
SeaStar 20° Dash Wedge Kit	HA5419
Ball Joint Mount Cylinder (7 cu. in.)	HC5322-3
Ball Joint Mount Cylinder (9 cu. in.)	HC5323-3
Fixed Mount Cylinder (13.3 cu. in.) (one ball joint end)	K-22
Trunion Mount Cylinder (13.1 cu. in.)	HC5369
Add-A-Station/Autopilot Fittings Kit	HF5502
SeaStar Hose Kit (2 hoses)	HO51__
SERVICE ITEMS	
SeaStar Oil (1 Gallon)	HA5440
Steering Wheel Locknut	HP6032

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## APPLICATION GUIDE (INBOARD STEERING)

Use "System Numbers" in chart below to select the components from ordering guide.

Planing Hull: maximum hull speed normally exceeds 18 knots.

Displacement Hull: maximum hull speed does not normally exceed 18 knots.

BOAT TYPE / LENGTH	SYSTEM NUMBERS 1 ENGINE		SYSTEM NUMBERS 2 ENGINE	
	PLEASURE	WORK	PLEASURE	WORK
<b>PLANING HULLS</b>				
To 26 Ft. (8m)	1	4	1	4
To 32 Ft. (10m)	2	4	1	4
To 38 Ft. (11.5m)	3	5	2	5
To 44 Ft. (13.5m)	5	-	3	5
To 50 Ft. (15m)	-	-	5	-
<b>DISPLACEMENT HULLS</b>				
To 26 Ft. (8m)	2	4	2	4
To 32 Ft. (10m)	3	4	3	4
To 38 Ft. (11.5m)	5	5	3	5
To 44 Ft. (13.5m)	-	-	5	-
To 50 Ft. (15m)	-	-	-	-
<b>SAIL</b>				
To 26 Ft. (8m)	4	4	-	-
To 32 Ft. (10m)	4	4	-	-
To 38 Ft. (11.5m)	4	5	-	-
To 44 Ft. (13.5m)	5	-	-	-
To 50 Ft. (15m)	-	-	-	-

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### INBOARD CYLINDER DIMENSIONS

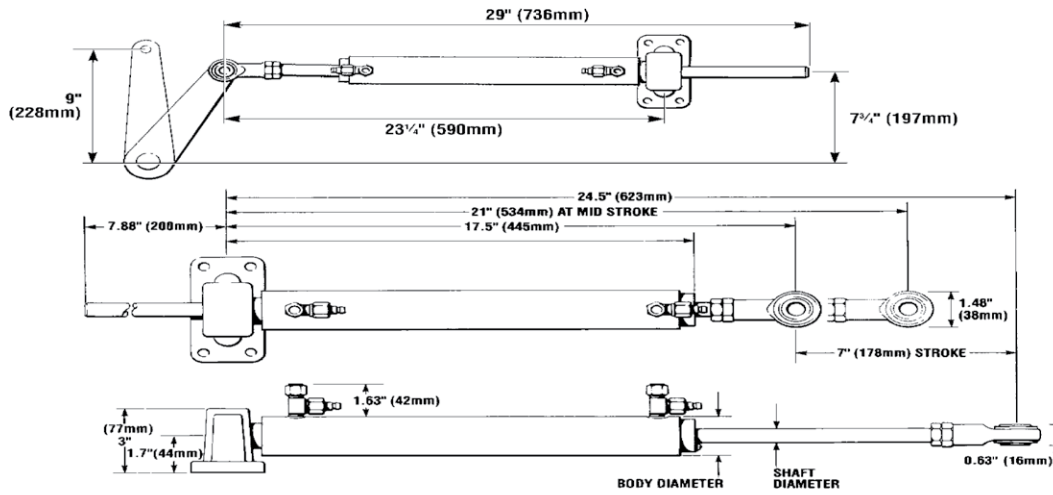
TM (brass body) Inboard Cylinders

P/N HC5318/HC5319 (Model BA1\_ \_-7TM):

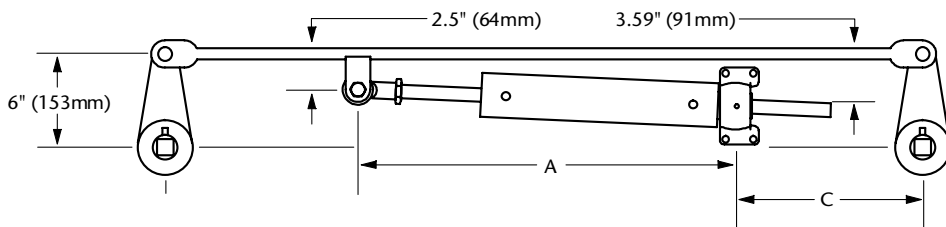
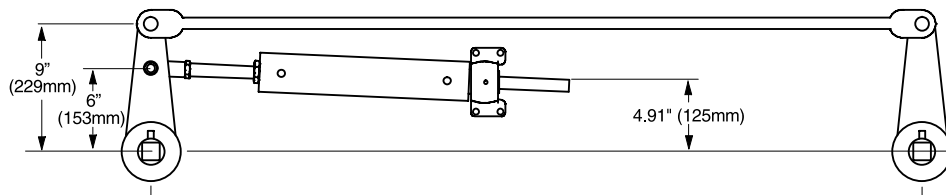
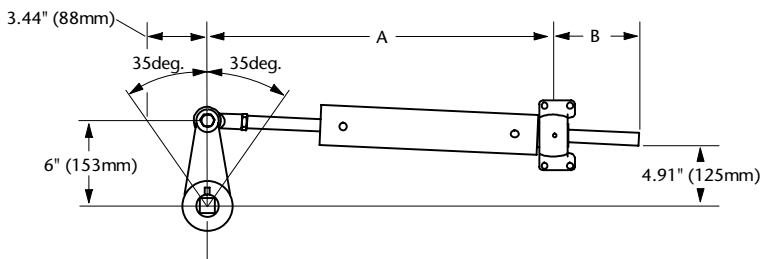
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CYLINDER MODEL	CYLINDER DIMENSIONS & MOUNTING CONFIGURATIONS SPECIFIC TO MODEL					
	PART NO.	BODY DIAMETER	SHAFT DIAMETER	DIM. A	DIM. B	DIM. C
BA125-7ATM	HC5312-3	1.375" (34.9mm)	.50" (12.7mm)	20" (508mm)	6.5" (165mm)	8.5" (216mm)
BA135-7ATM	HC5313-3	1.50" (38.1mm)	.625" (15.9mm)	20" (508mm)	6.5" (165mm)	8.5" (216mm)
BA150-7ATM	HC5314-3	1.75" (44.4mm)	.625" (15.9mm)	20" (508mm)	6.5" (165mm)	8.5" (216mm)
BA150-7TM	HC5318	1.75" (44.4mm)	.625" (15.9mm)	21" (534mm)	8.0" (204mm)	10.0" (254mm)
BA150-9TM	HC5369	1.75" (44.4mm)	.625" (15.9mm)	21" (534mm)	8.0" (204mm)	10.0" (254mm)
BA175-7TM	HC5319	2.00" (50.8mm)	.75" (19.0mm)	21" (534mm)	8.0" (204mm)	10.0" (254mm)



## ORDERING GUIDE

ENGINE/CYLINDER CONFIGURATION	COMPONENT DESCRIPTION	QTY. REQ'D	MODEL	PART NO.
SYSTEM #1 NUMBER OF TURNS: 4.0	Cylinder	1	BA125-7ATM	HC5312-3
	Helm	1	SeaStar 1.7	HH5271
	Tubing (See notes 1 & 3)		3/8" DIA. Nylon	HT5_ _ _
	Oil	3	SeaStar Oil (QT.)	HA5430
SYSTEM #2 NUMBER OF TURNS: 5.0	Cylinder	1	BA135-7ATM	HC5313-3
	Helm	1	SeaStar 1.7	HH5271
	Tubing (See notes 1 & 3)		3/8" DIA. Nylon	HT5_ _ _
	Oil	3	SeaStar Oil (QT.)	HA5430
SYSTEM #3 NUMBER OF TURNS: 6.0	Cylinder	1	BA150-7ATM	HC5314-3
	Helm	1	SeaStar 1.7	HH5271
	Tubing (See notes 1 & 3)		3/8" DIA. Nylon	HT5_ _ _
	Oil	3	SeaStar Oil (QT.)	HA5430
SYSTEM #4 NUMBER OF TURNS: 4.25	Cylinder	1	BA150-7TM	HC5318
	Helm	1	SeaStar 2.4	HH5272
	Tubing (See notes 1 & 3)		3/8" DIA. Copper	
	Hose Kit	1	SeaStar Hose Kit	HF5508
	Oil	3	SeaStar Oil (QT.)	HA5430
SYSTEM #5 NUMBER OF TURNS: 5.5	Cylinder	1	BA175-7TM	HC5319
	Helm	1	SeaStar 2.4	HH5272
	Tubing (See notes 1 & 3)		3/8" DIA. Copper	
	Hose Kit	1	SeaStar Hose Kit	HF5508
	Oil	3	SeaStar Oil (QT.)	HA5430
	OPTIONAL EQUIPMENT	Back Plate Kit		(For standard helms)
20 Degree Wedge			(For standard helms)	HA5419
Autopilot Fitting Kit			(For all helms)	HF5502
* Tilt Helm - SeaStar 1.7				HH6541
Rear Mount Helm - SeaStar 1.7				HH5261
** Tilt Helm - SeaStar				HH6542
Rear Mount Helm - SeaStar				HH5262
Seastar 3.0 - Front Mount Helm				HH5283
Power Assist Steering				PA1200-2
For extra steering station, add:		Helm	1	SeaStar 1.7
	Fitting Kit	1	Add a station	HF5502
	Extra Tubing (See notes 1 & 3)		3/8" DIA. Nylon	HT5_ _ _
	Oil	1	SeaStar Oil (QT.)	HA5430

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For systems 1, 2, & 3, nylon tubing (3/8" diameter) is the standard requirement for plumbing the system. Copper tubing (3/8" diameter) can be substituted by Fitting Kit HF5507 is required. For systems 4 & 5, copper tubing (3/8" diameter) is the standard requirement for plumbing the system. Fitting Kit HF5508 is required. For systems 1, 2, 3, 4, & 5, SeaStar outboard hose can be substituted for nylon or copper tube. These hoses must be ordered in standard lengths. They cannot be cut to length.

