



Proven Quality Performance

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

PRODUCT GUIDE

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

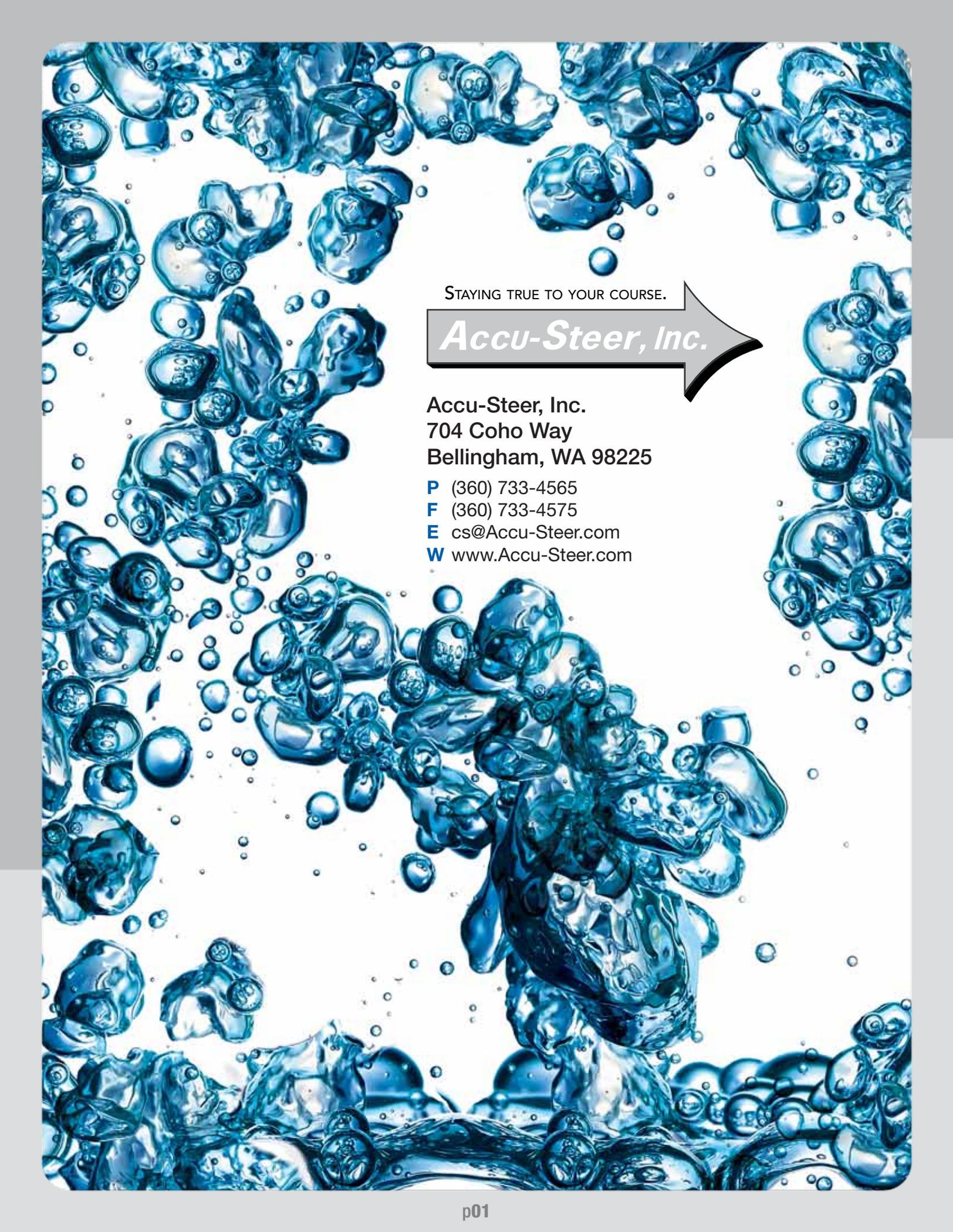
2015

DEDICATED TO QUALITY HIGH-PERFORMANCE
HYDRAULIC CONTROL OF STEERING SYSTEMS FOR
YACHTS AND COMMERCIAL VESSELS.

Defining
Reliability
through form and function.

Table of Contents

• Contact Information	p01
• Commitment to Quality	p02
Quick Reference Guide	p03
Directory of Model Designations	p04
Products: PS models	p05
Products: HM models	p09
Products: HPP models	p15
Products: HPU models	p19
Products: HRP models	p25
Products: LA models	p29
U.S.A. Price List	p33
Domestic Warranty Policy	p35
Domestic Dealer Policy	p36
Accu-Steer, Inc. Dealer Application	p37



STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

Accu-Steer, Inc.
704 Coho Way
Bellingham, WA 98225

P (360) 733-4565
F (360) 733-4575
E cs@Accu-Steer.com
W www.Accu-Steer.com



Commitment to Quality

Accu-Steer, Inc. is dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels of all classes.

Accu-Steer, Inc. product line has been designed to interface autopilot and electrical steering control to new or existing hydraulic steering systems.

Accu-Steer, Inc. product line is a result of a continuing effort to offer a more reliable and serviceable product to the industry.

Accu-Steer, Inc. products are designed with reliability as the primary focus. Each unit is completely tested after assembly and each unit is identified by a serial number with its test results on file at Accu-Steer, Inc.

Installation is simplified by the use of standard hydraulic fittings on all Accu-Steer, Inc. products. Electrical connection is made through anti-chaffing water tight wire glands to the large terminal connections within the electrical control box.

Accu-Steer, Inc. Quick Reference Guide

Retailer – USA Price List 2015

Model/Description	List Price
Power Steering Model with Fixed Flow Rate	
PS7-05/11/17 Hydraulic Power Steering Unit	\$2,395.00
Power Steering Model with Adjustable Flow Rates	
PS7-100 Adjustable Hydraulic Power Steering Unit	\$3,295.00
Manifold Models with Adjustable Flow Rates	
HM190 Hydraulic Steering Manifold (single-speed)	\$1,195.00
HM260 Hydraulic Steering Manifold (two-speed)	\$1,795.00
HM400 Hydraulic Steering Manifold (two-speed)	\$2,195.00
Continuous Running 2-Speed Tank Models with Adjustable Flow Rates	
HPP522 Hydraulic Power Pack (Heavy-Duty) Tank Model	\$4,195.00
HPP523 Hydraulic Power Pack (Heavy-Duty) Tank Model	\$4,295.00
HPP524 Hydraulic Power Pack (Heavy-Duty) Tank Model	\$4,395.00
Option Soft Shift Valve 12 VDC or 24 VDC	\$395.00
Option Automatic Helm Fill	\$479.00
Continuous Running 2-Speed Models with Adjustable Flow Rates	
HPU100 Continuous Running Pump Set (Medium-Duty)	\$1,995.00
» Option Soft Shift Valve 12 VDC or 24 VDC	\$395.00
HPU212-200 Continuous Running Pump Set (Heavy-Duty)	\$3,795.00
» Option Soft Shift Valve 12 VDC or 24 VDC	\$395.00
HPU212-300 Continuous Running Pump Set (Heavy-Duty)	\$3,995.00
» Option Soft Shift Valve 12 VDC or 24 VDC	\$395.00
HPU400 Continuous Running Pump Set (Heavy-Duty)	\$4,195.00
» Option Soft Shift Valve 12 VDC or 24 VDC	\$395.00
Reversing Models with Fixed Flow Rate	
HRP05 Hydraulic Reversing Pump Set (Medium-Duty) UL1500IP	\$829.00
HRP11 Hydraulic Reversing Pump Set (Medium-Duty) UL1500IP	\$829.00
HRP17 Hydraulic Reversing Pump Set (Medium-Duty) UL1500IP	\$829.00
Reversing Model with Adjustable Flow Rates	
HRP100 Hydraulic Reversing Pump Set (Medium-Duty) UL1500IP	\$1,595.00
Linear Actuator Models with Fixed Flow Rate	
LA11 Hydraulic Linear Actuator (Medium-Duty)	\$2,695.00
LA17 Hydraulic Linear Actuator (Medium-Duty)	\$2,895.00
Linear Actuator Model with Adjustable Flow Rates	
LA100 Hydraulic Linear Actuator (Heavy-Duty)	\$3,795.00
Linear Drive Unit-Only with Fixed Flow Rate	
LA11D Hydraulic Linear Actuator Drive-Only (Medium-Duty)	\$1,595.00
LA17D Hydraulic Linear Actuator Drive-Only (Medium-Duty)	\$1,695.00
Linear Drive Unit-Only with Adjustable Flow Rates	
LA100D Hydraulic Linear Actuator Drive-Only (Heavy-Duty)	\$2,395.00
Steering Adapter Kits	
KVR-3 Verado Hose Adapter Kit 3-Foot	\$195.00
KVH-6 Verado Hose Adapter Kit 6-Foot	\$285.00

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining Reliability

through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels.

CONFIGURATION

PS	Hydraulic Power Steering Unit
HM	Hydraulic Manifold Dual and Single Speed
HPP	Hydraulic Power Pack Dual Speed with Flow Controls (Option: Tank Model)
HPU	Hydraulic Power Unit Single or Dual Speed with Flow Controls
HRP	Hydraulic Reversing Pump Single-Speed with and without Flow Control
LA	Hydraulic Linear Actuator Drive Reversing Pump with Bypass Valve and Reservoir Tank

SOLENOID OPERATING VOLTAGE

12	12 VDC
24	24 VDC
115	115 VAC

Motor voltage and solenoid voltage may be selected separately with no additional charge.

DRIVE MOTOR VOLTAGE

12	12 VDC
24	24 VDC
115	115 VAC 50 or 60 HZ Single Phase
220	220 VAC 50 or 60 HZ Single Phase
208	208 VAC 50 or 60 HZ Three Phase

PUMP VOLUME

05	0.5 CU IN/SEC
11	1.0 CU IN/SEC
17	1.6 CU IN/SEC
100	1.0 GPM / 2.8 LPM
212-200	1.0 - 2.0 GPM (Adjustable) 3.8 - 7.6 LPM (Adjustable)
212-300	2.0 - 3.0 GPM (Adjustable) 7.6 - 11 LPM (Adjustable)
400	4.0 GPM / 15.2 LPM
500	5.0 GPM / 19.0 LPM*

*19.0 LPM and above are quoted as custom systems. Design assistance and price quotation upon request.

EXAMPLE

CONFIGURATION **HPU**
PUMP VOLUME **200**
MOTOR VOLTAGE **115**
SOLENOID VOLTAGE **12**

Models:

PS7-05/11/17
PS7-100

HM190
HM260
HM400

HPP522
HPP523
HPP524

HPU100
HPU212-200
HPU212-300
HPU400

HRP05
HRP11
HRP17
HRP100

LA11
LA11D
LA17
LA17D
LA100
LA100D



STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

Heavy-Duty Hydraulic Power Steering System

PS7-05 PS7-11 PS7-17

The Accu-Steer **PS7** system is a **hydraulic power steering system** that was designed to provide marine vessel operators with easier or assisted steering while operating their vessel.

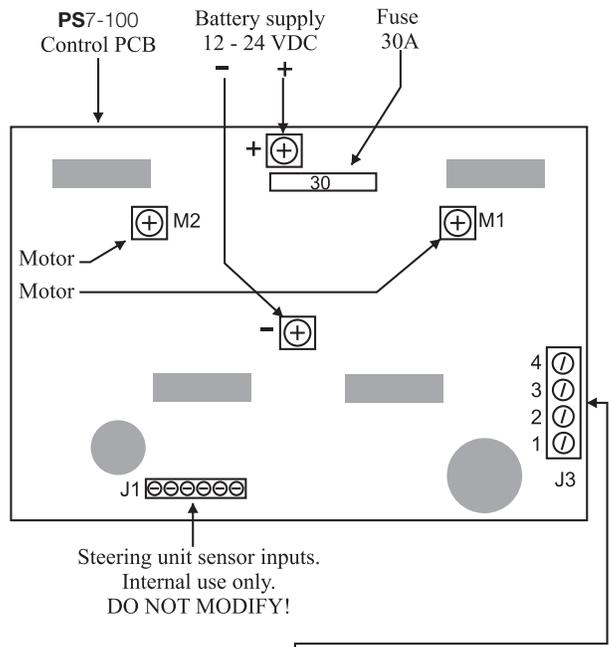
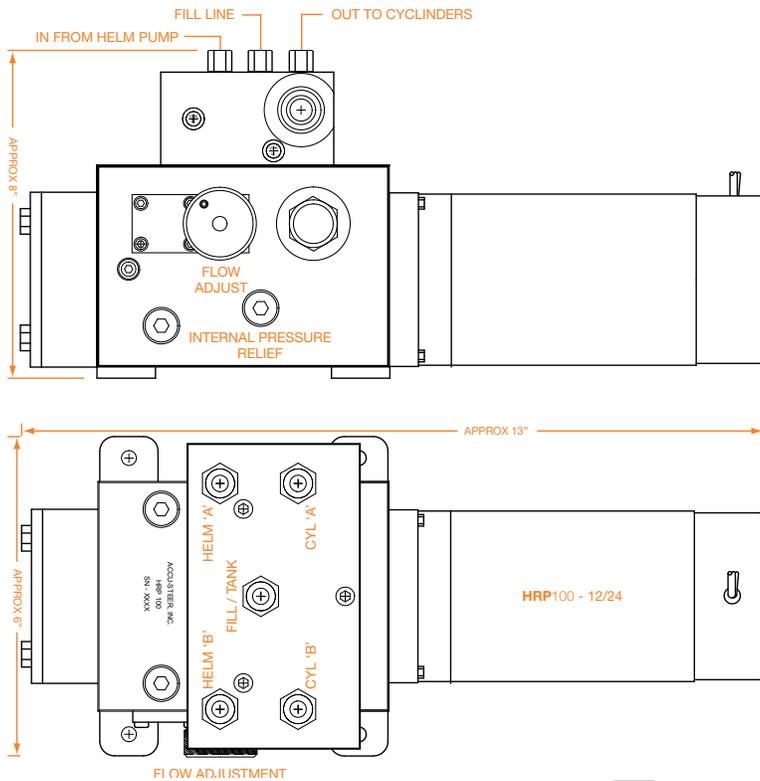
The **PS7** Power Steering System can be supplied in three pump sizes: **PS7-05** (up to 6 cu in), **PS7-11** (up to 14 cu in), **PS7-17** (up to 22 cu in).

In the power steering mode the **PS7** system senses both the oil flow from the helm pump and the direction of that flow. The **PS7** system activates a hydraulic reversing pump which pumps oil in the same direction as the helm pump. This operation assists the helm in moving the vessel's rudder especially for heavy or hard to steer applications. When the operator stops turning the helm pump, the **PS7** system senses the lack of movement and stops the hydraulic reversing pumpset.

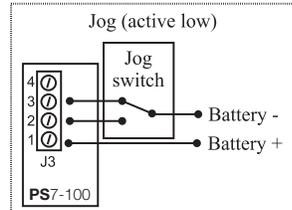
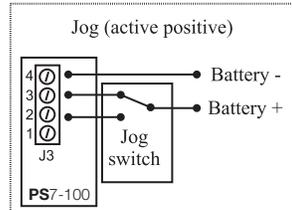
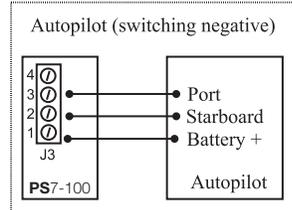
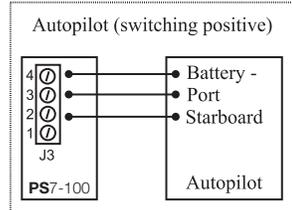
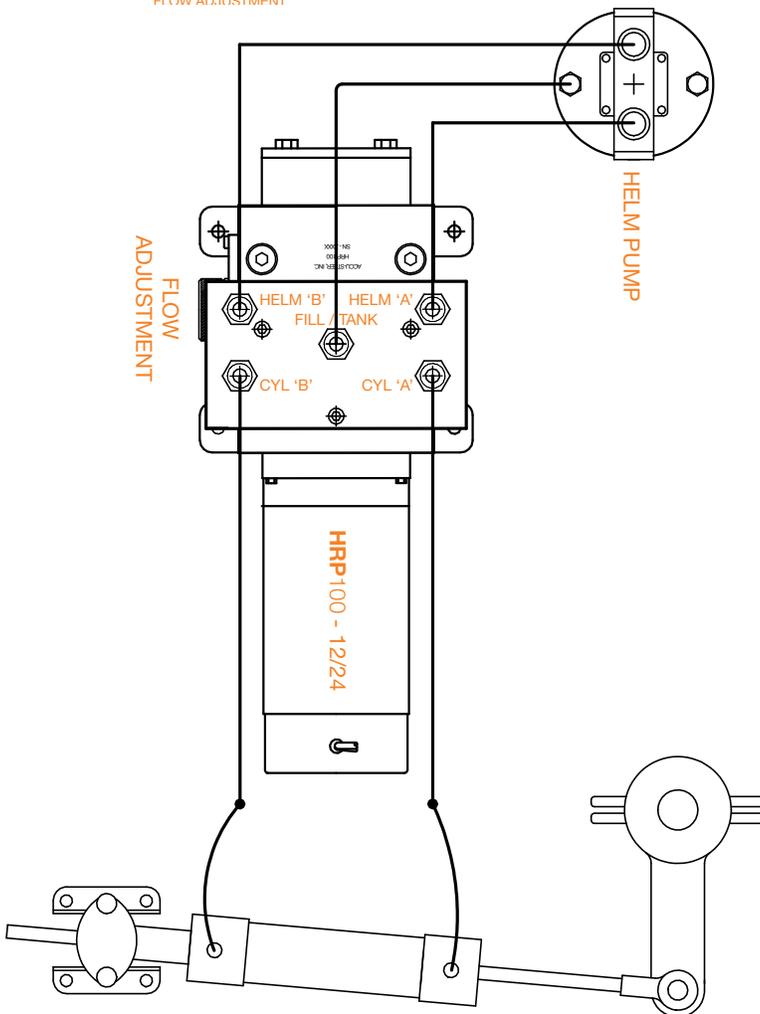
The **PS7** system has been designed to accept a non-follow-up jog lever input to allow jog steering.

The **PS7-05/11/17** is capable of accepting steering input from an existing autopilot or can be used as the hydraulic pump for new autopilot installations. Using the **PS7** system eliminates the need to purchase the hydraulic pump as part of a new autopilot package and when installed will have the added advantage of power steering. For proper size selection please refer to the above pump volumes. *Available in 12 VDC or 24 VDC.*





- 4 Autopilot or Jog common negative — (Connect to - if autopilot or jog switches positive to move rudder)
- 3 Autopilot or jog signal A — Port or starboard control signal A
- 2 Autopilot or jog signal B — Port or starboard control signal B
- 1 Autopilot or Jog common positive — (Connect to + if autopilot or jog switches negative to move rudder)



Please note:
 An autopilot and jog control may both be connected to the Accu-Steer PS7-100 at the same time. In this case, however, the autopilot and the jog inputs must be isolated from each other either through a switch or through isolation diodes. Please contact Accu-Steer for further information.

Shipping weight: 28 lbs • Dimensions: 16" x 11" x 10"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

Heavy-Duty Hydraulic Power Steering System **PS7-100**

The Accu-Steer **PS7-100** system is a **hydraulic power steering system** that was designed to provide marine vessel operators with easier or assisted steering while operating their vessel.

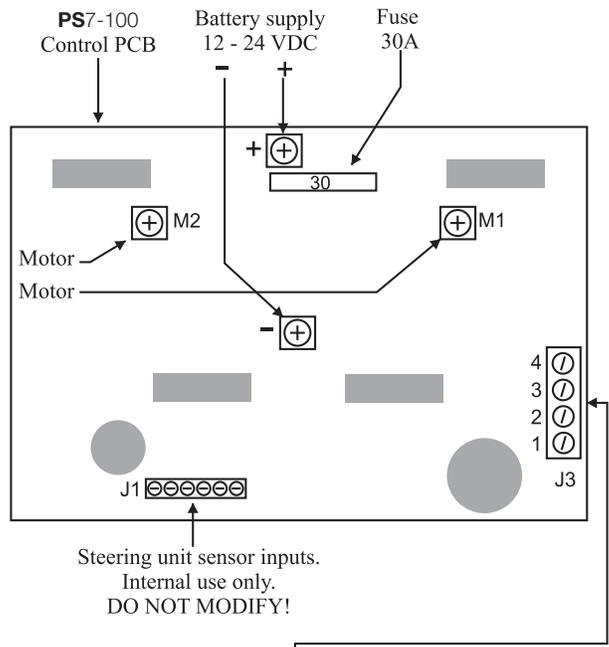
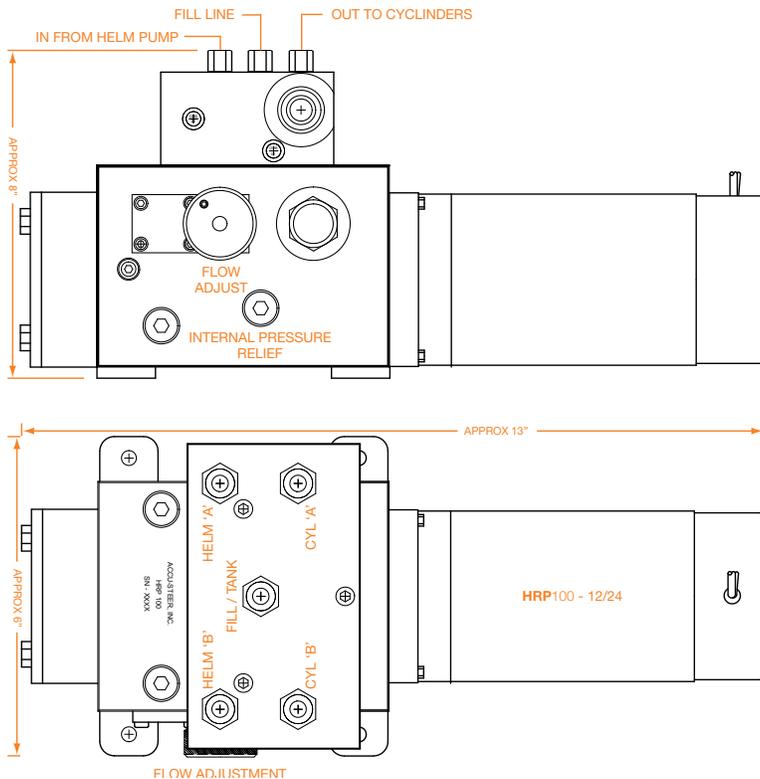
The **PS7-100** Power Steering System uses an **HRP100** model of pump which allows an adjustable output flow rate from 0-3.85 cu in/sec or 63.3 cc/sec.

In the power steering mode the **PS7-100** system senses both the oil flow from the helm pump and the direction of that flow. The **PS7-100** system activates a hydraulic reversing pump which pumps oil in the same direction as the helm pump. This operation assists the helm in moving the vessel's rudder especially for heavy or hard to steer applications. When the operator stops turning the helm pump, the **PS7-100** system senses the lack of movement and stops the hydraulic reversing pumpset.

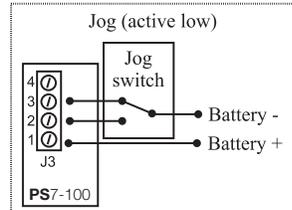
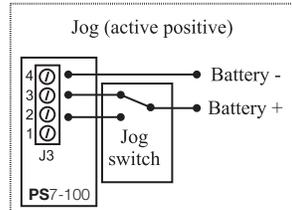
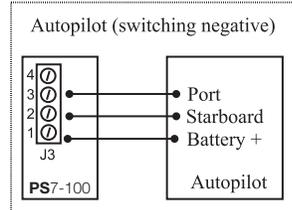
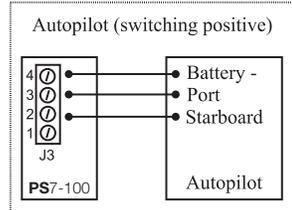
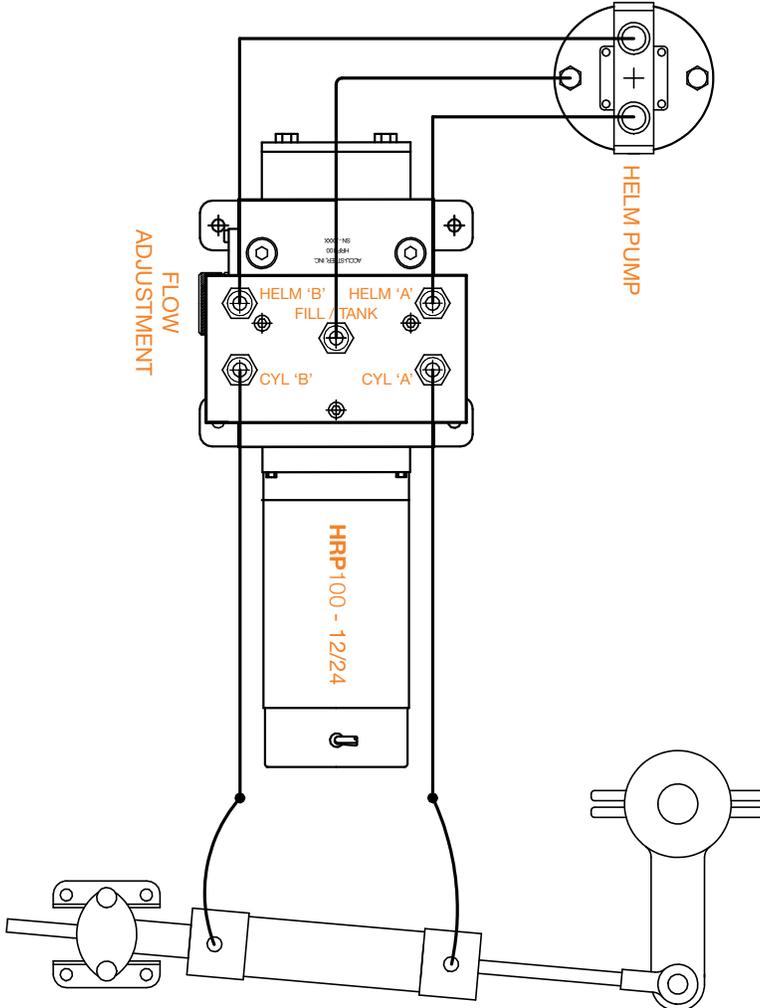
The **PS7-100** system has been designed to accept a non-follow-up jog lever input to allow jog steering.

The **PS7-100** is capable of accepting steering input from an existing autopilot or can be used as the hydraulic pump for new autopilot installations. Using the **PS7-100** system eliminates the need to purchase the hydraulic pump as part of a new autopilot package and when installed will have the added advantage of power steering. For proper size selection please refer to the above pump volumes. Available in 12 VDC or 24 VDC.



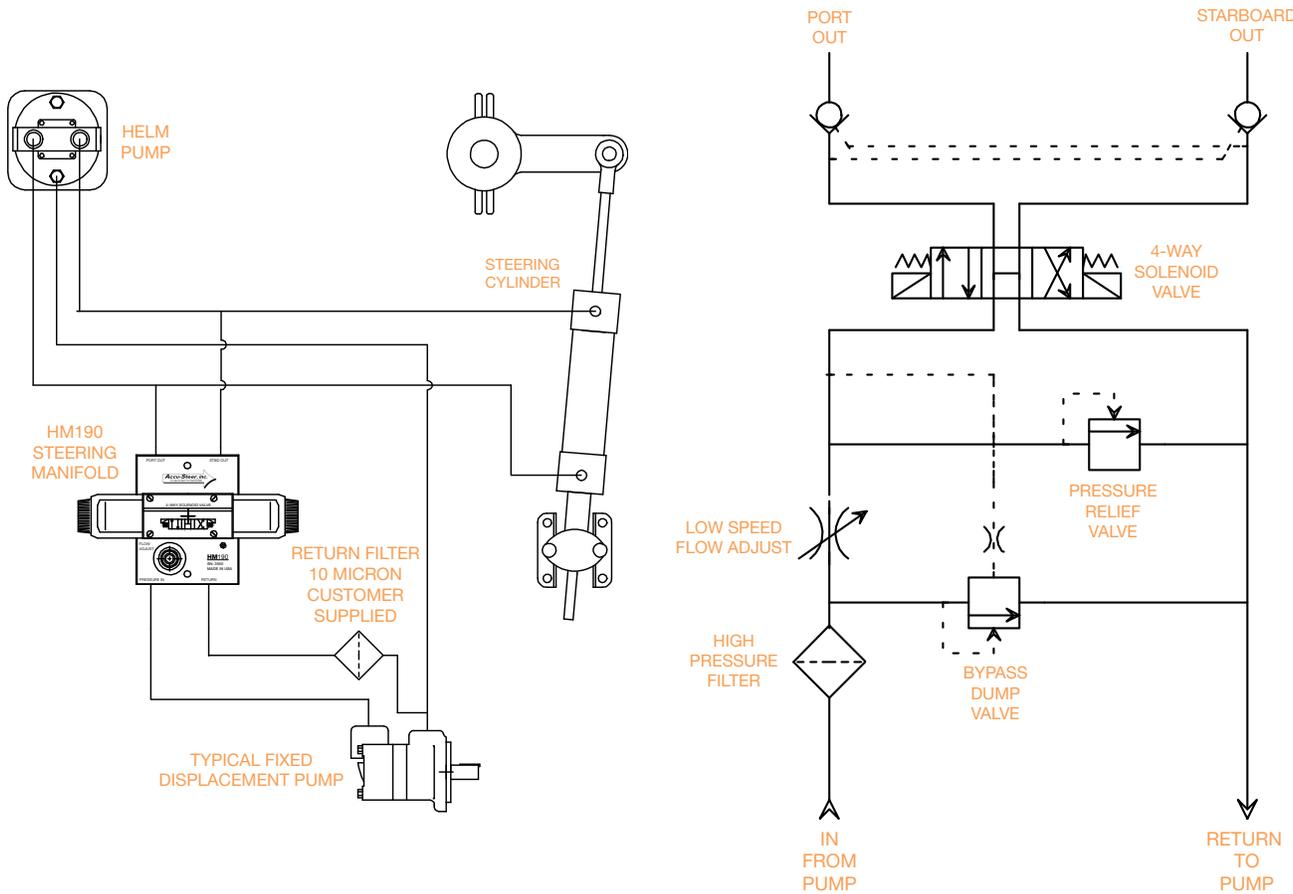
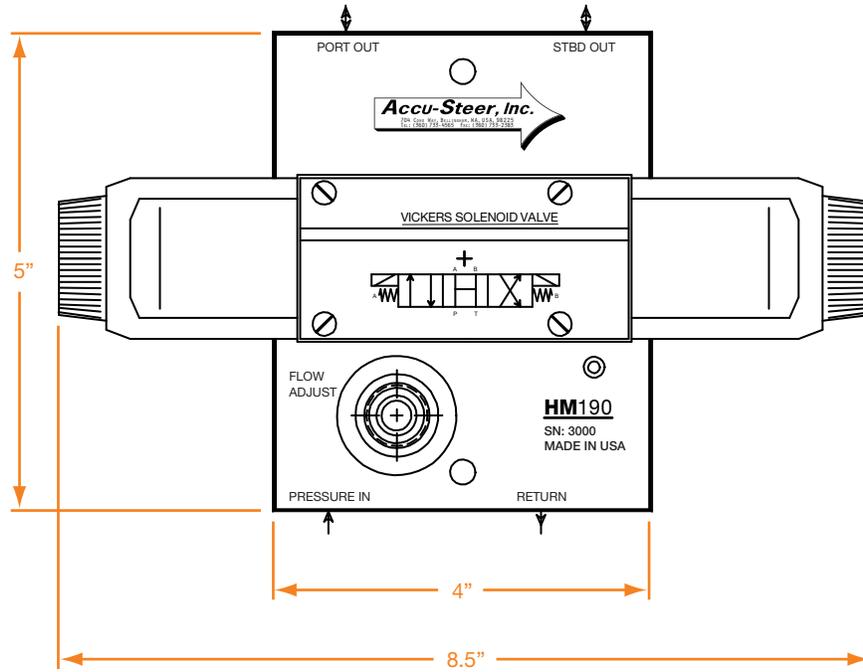


- 4 Autopilot or Jog common negative — (Connect to - if autopilot or jog switches positive to move rudder)
- 3 Autopilot or jog signal A — Port or starboard control
- 2 Autopilot or jog signal B — Port or starboard control
- 1 Autopilot or Jog common positive — (Connect to + if autopilot or jog switches negative to move rudder)



Please note:
 An autopilot and jog control may both be connected to the Accu-Steer PS7-100 at the same time. In this case, however, the autopilot and the jog inputs must be isolated from each other either through a switch or through isolation diodes. Please contact Accu-Steer for further information.

Shipping weight: 28 lbs • Dimensions: 16" x 11" x 10"



Shipping weight: 12 lbs • Dimensions: 14" x 12" x 6"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining Reliability through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

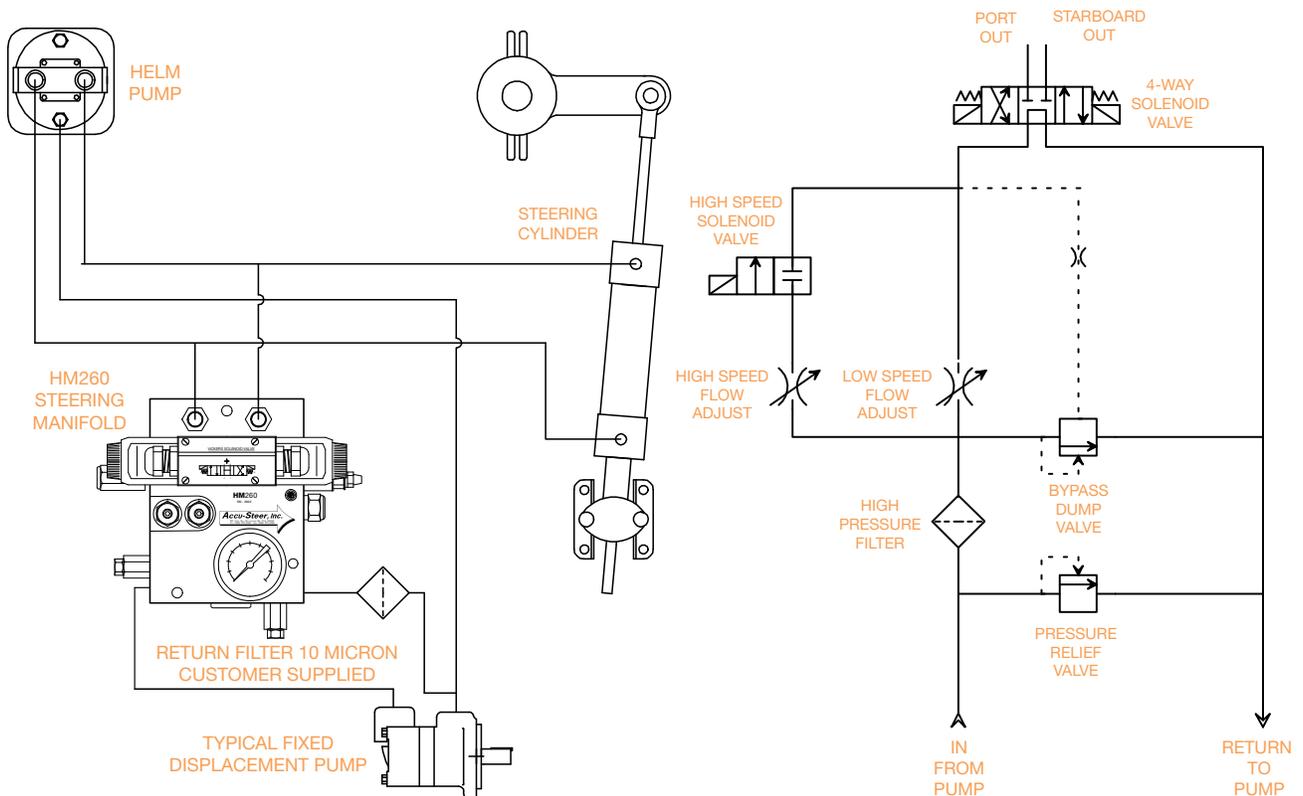
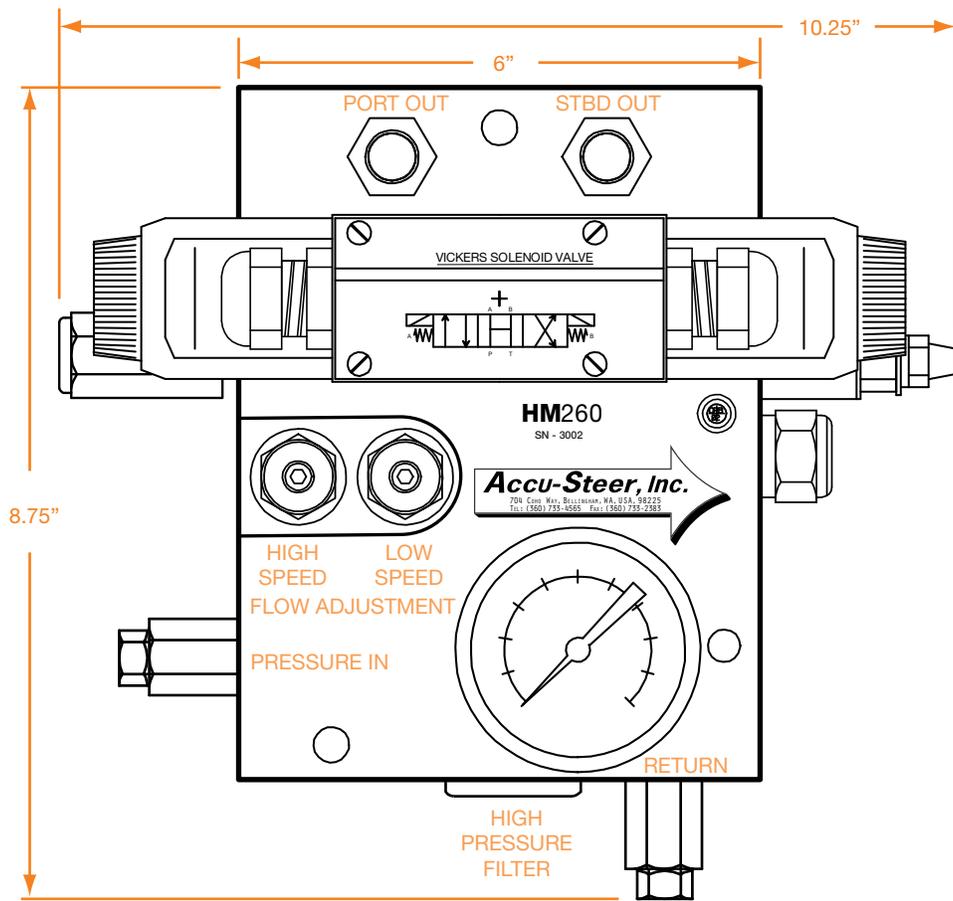
Heavy-Duty Hydraulic Steering Manifold **HM260**

The Accu-Steer HM260 steering manifold is used to interface autopilot and electric controls with a vessel's hydraulic steering system that is 150 cu. in. or smaller. The HM260 manifold is used with engine driven or electric driven pump units. This model will interface with most marine autopilot systems. Available in 12 VDC, 24 VDC or AC voltages.

FEATURES

- Individual adjustable high and low speeds
- Input flows to 10 gpm
- Output flows to 5 gpm
- High pressure filter assembly
- 4-way solenoid valve (12 VDC, 24 VDC or AC voltages)
- Output lockvalves (double pilot operated check valves)
- Pressure gauge
- Fast jogging
- Heavy-duty construction for long life and dependability
- Ideal for new and retrofit applications
- Valve housing blue anodized aluminum with laser etching
- Approximate dimensions: W = 10.25" H = 8.75" D = 6.0"





Shipping weight: 14 lbs • Dimensions: 14" x 12" x 6"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

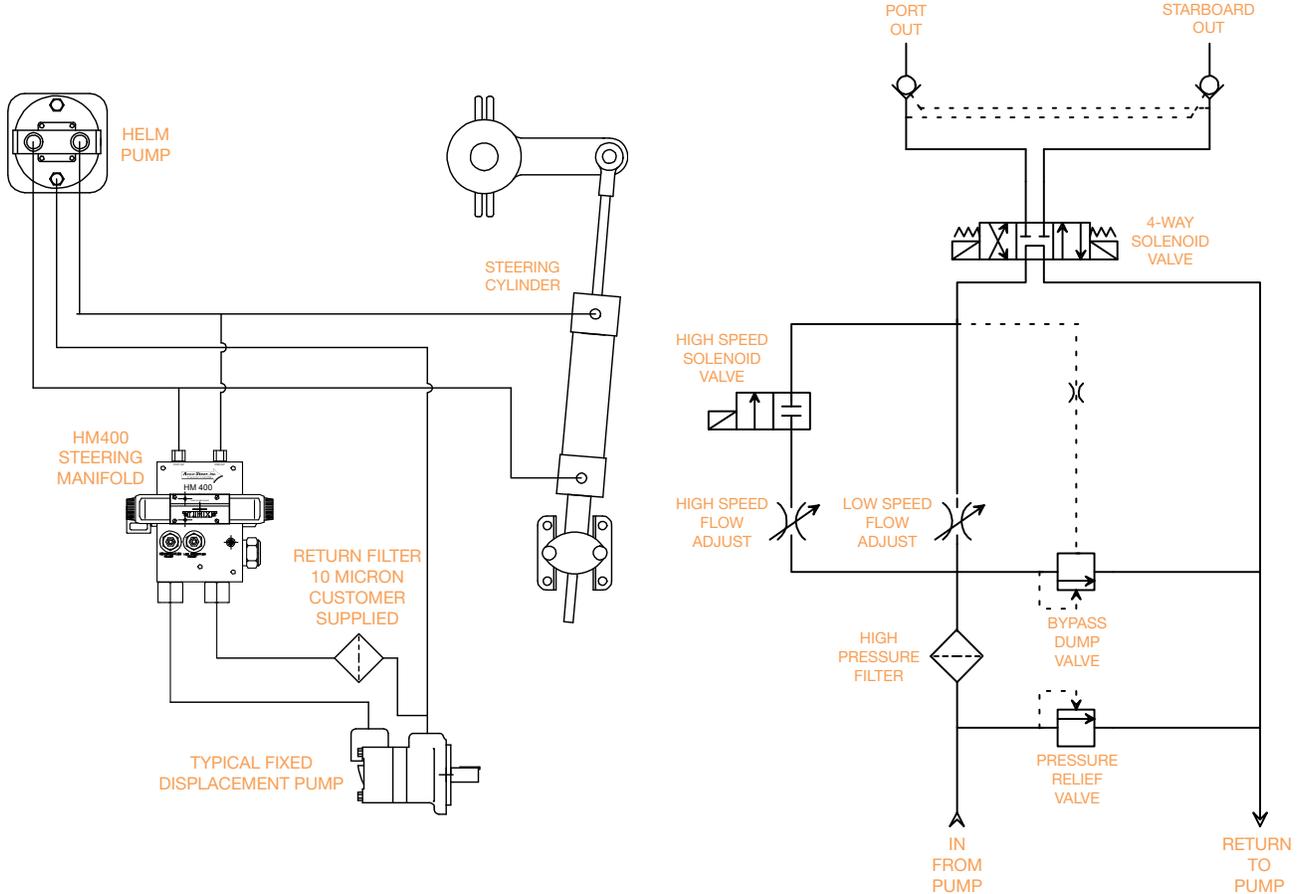
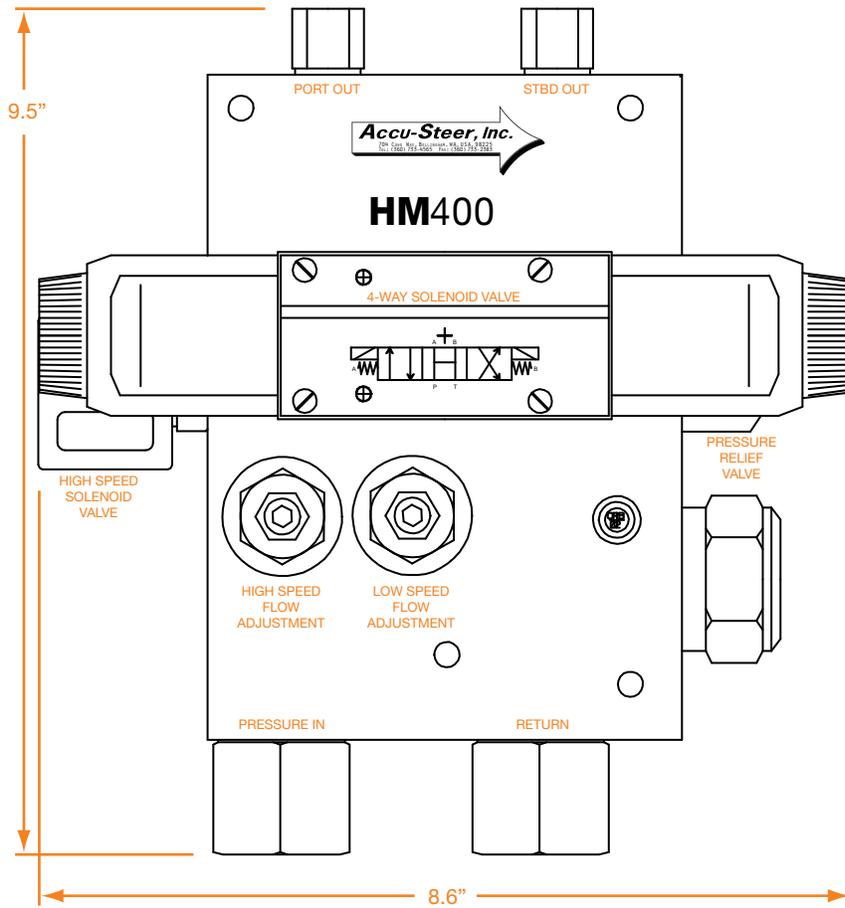
Heavy-Duty Hydraulic Steering Manifold **HM400**

The Accu-Steer HM400 steering manifold is used to interface autopilot and electric controls with a vessel's hydraulic steering system of up to 350 cu. in. (27 lpm). The HM400 manifold is used with engine driven or electric driven pump units. The manifold is designed to operate with higher flow capacities of up to 18 gallons per minute. This model will interface with most marine autopilot systems. Available in 12 VDC, 24 VDC or AC voltages.

FEATURES

- Individually adjustable high and low speeds
- Input flows to 18 gpm
- Output flows to 7.5 gpm
- 4-way solenoid valve and high speed solenoid valves (available in 12 VDC, 24 VDC or AC voltages)
- Fast jogging
- Ideal for new and retrofit applications where high flow capacities are required
- Valve housing blue anodized aluminum with laser etching
- Heavy-duty construction for long life and dependability
- Approximate dimensions: W = 8.6" H = 9.5" D = 7.0"





Shipping weight: 19 lbs • Dimensions: 12" x 12" x 12"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

Heavy-Duty Hydraulic Power Pack **HPP520 Tank Series**

The Accu-Steer HPP520 Series pump offers selectable 2-speed steering operation and consists of a continuous running pump set and flow control manifold. It is designed to be a standalone system or connected to an existing cooling/reservoir tank or may be purchased with an optional cooling/reservoir tank as part of the system. It will control steering systems from 30 cu. in. to 160 cu. in. of volume. *All units available in a wide range of AC and DC drive voltages and AC and DC solenoid control voltages.*

FEATURES

- Individually adjustable high and low speeds
- Heavy-duty, high-efficiency motor with oversized accessible brushes and ball bearing construction
- High pressure filter assembly
- Fast jogging
- Heavy-duty construction for long life and dependability
- Ideal for new construction and retrofit applications
- Can be used with most autopilots

HPP522

Two GPM pump, 2.0-7.8 cu. in./sec

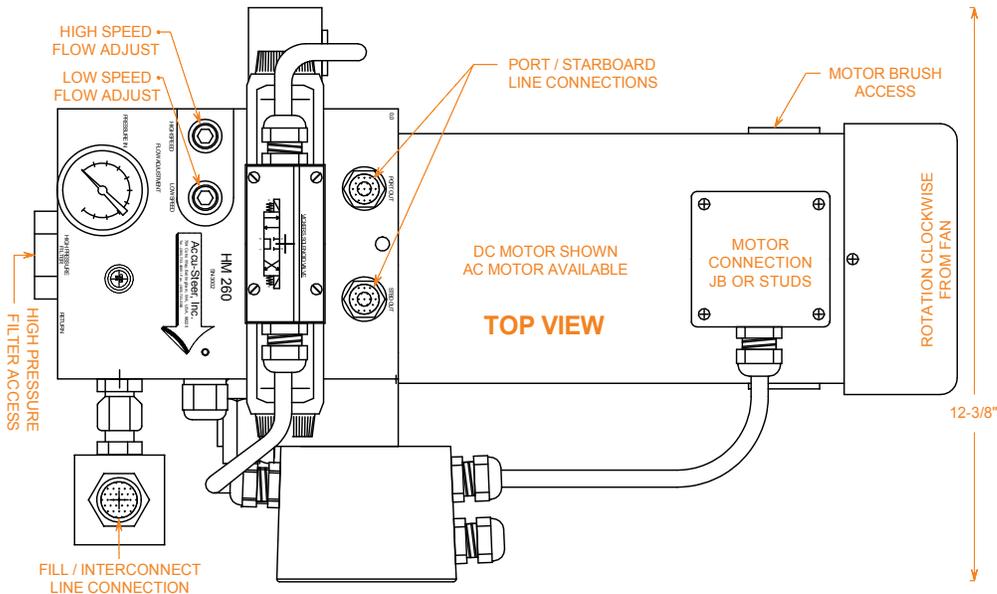
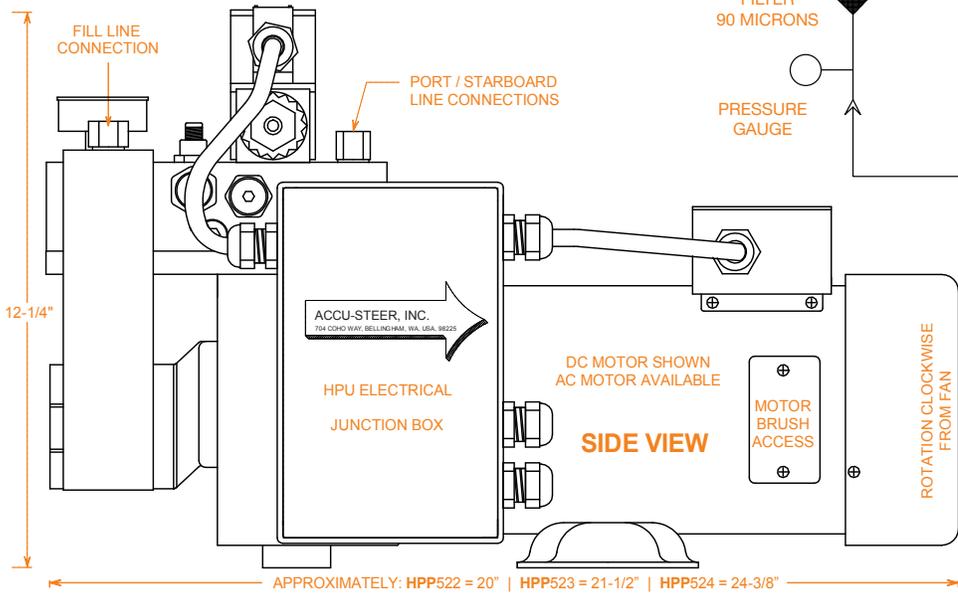
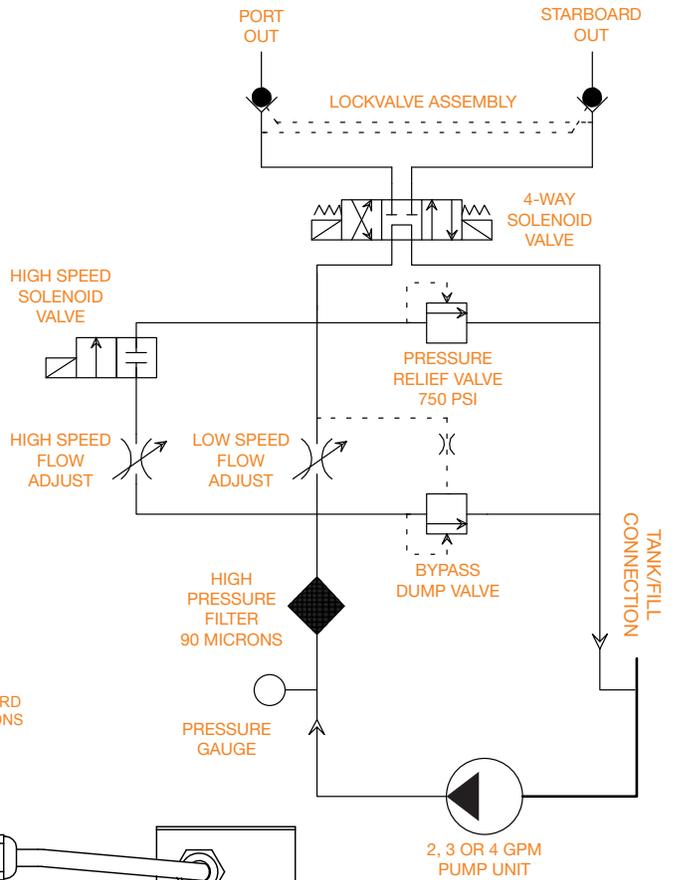
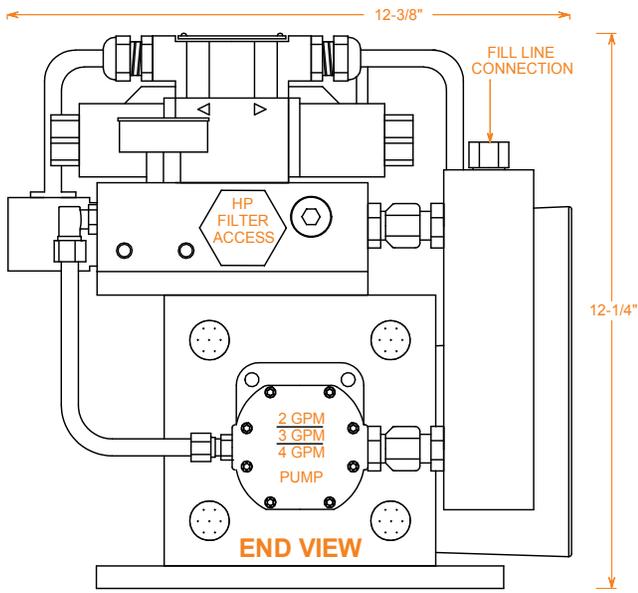
HPP523

Three GPM pump, 3.0-11.7 cu. in./sec

HPP524

Four GPM pump, 4.0-15.6 cu. in./sec





STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

Heavy-Duty Hydraulic Power Pack **HPP520 Tank Series**

(shown with optional tank)

The Accu-Steer HPP520 Series pump offers selectable 2-speed steering operation and consists of a continuous running pump set and flow control manifold. It is designed to be a standalone system or connected to an existing cooling/reservoir tank or may be purchased with an optional cooling/reservoir tank as part of the system. It will control steering systems from 30 cu. in. to 160 cu. in. of volume. *All units available in a wide range of AC and DC drive voltages and AC and DC solenoid control voltages.*

FEATURES

- Individually adjustable high and low speeds
- Heavy-duty, high-efficiency motor with oversized accessible brushes and ball bearing construction
- High pressure filter assembly
- Fast jogging
- Heavy-duty construction for long life and dependability
- Ideal for new construction and retrofit applications
- Can be used with most autopilots

HPP522

Two GPM pump
2.0-7.8 cu. in./sec

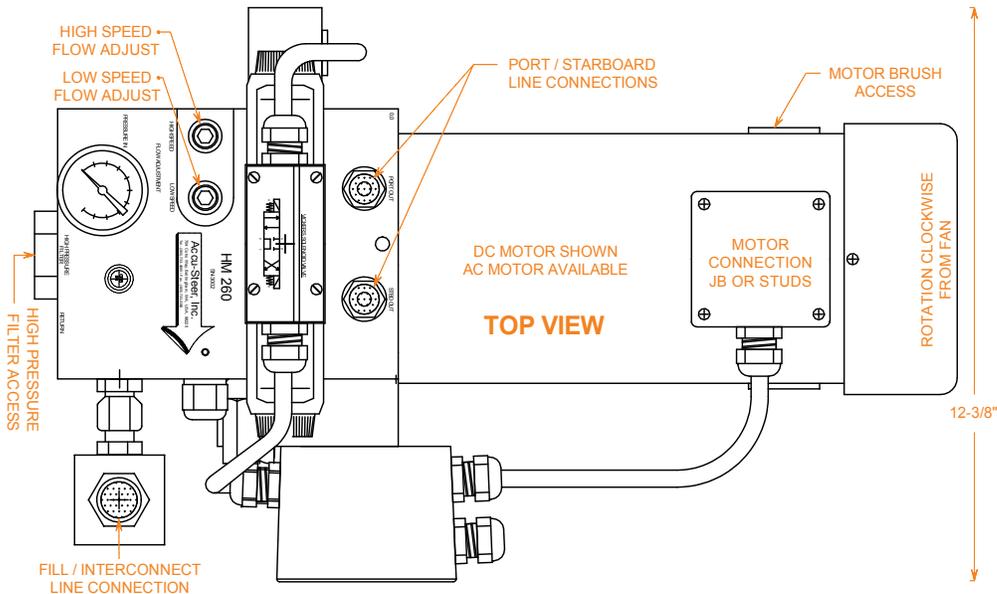
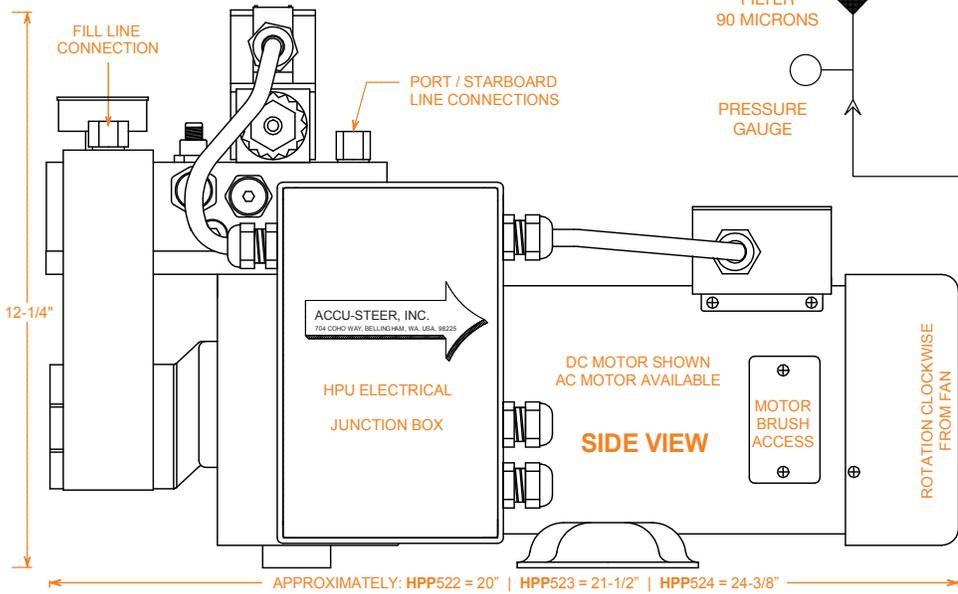
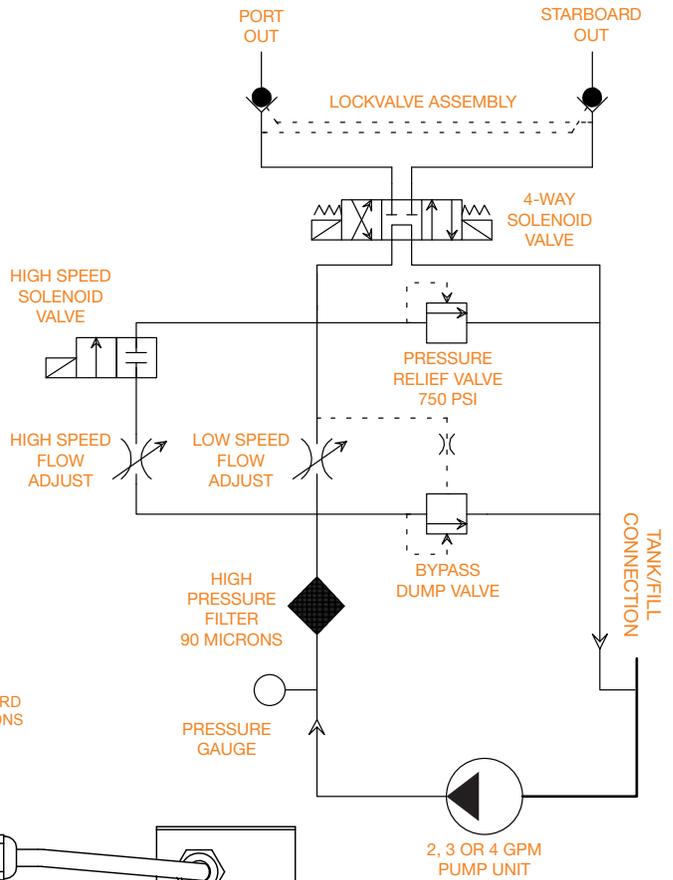
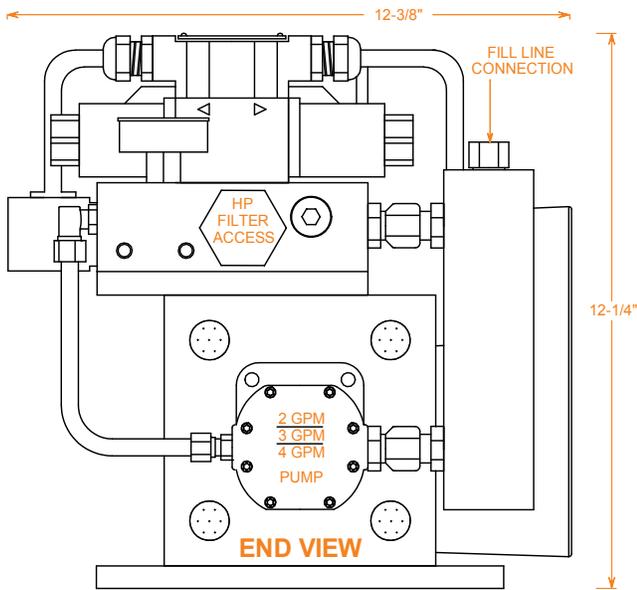
HPP523

Three GPM pump
3.0-11.7 cu. in./sec

HPP524

Four GPM pump
4.0-15.6 cu. in./sec





STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

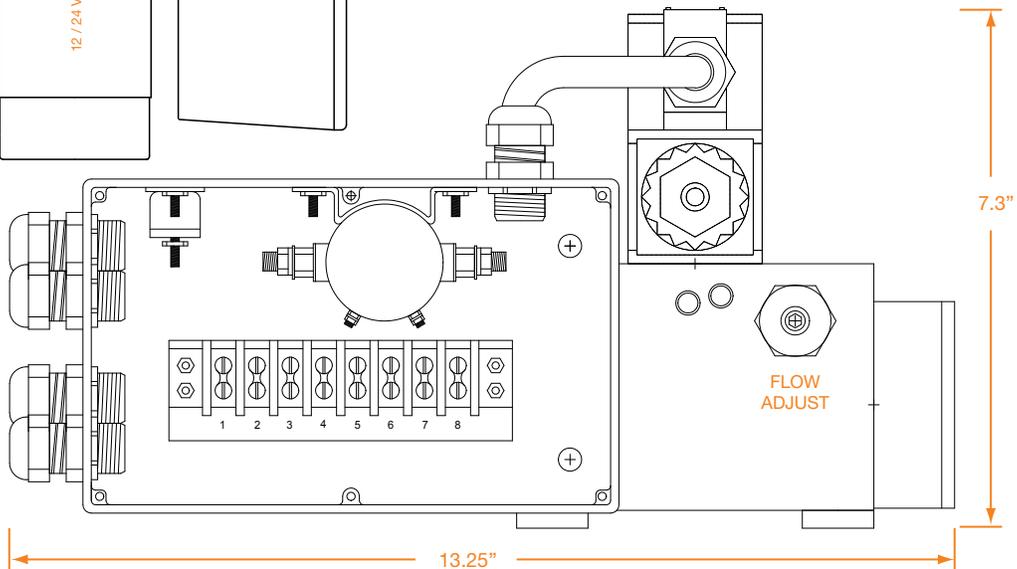
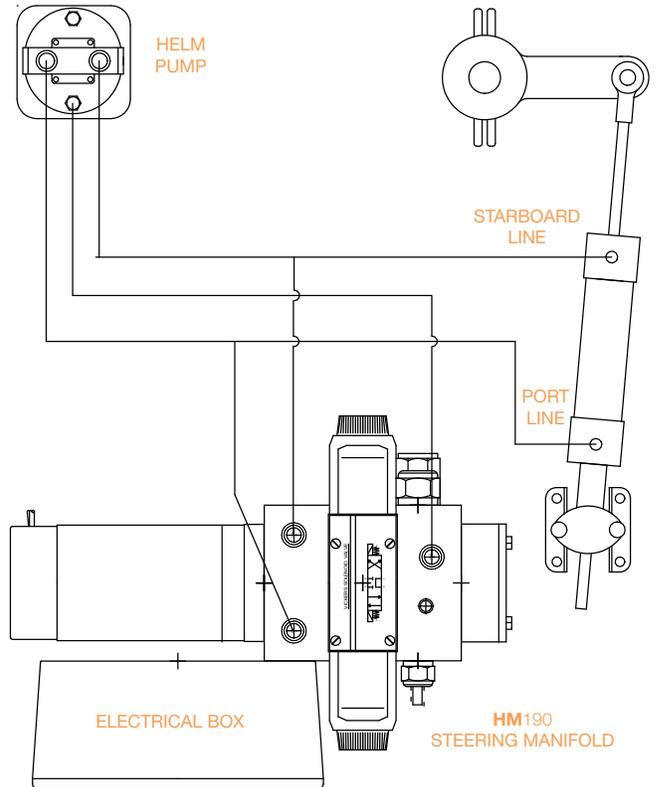
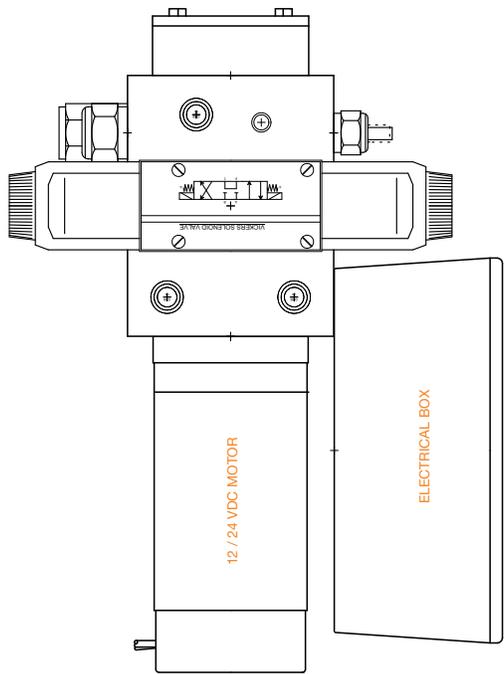
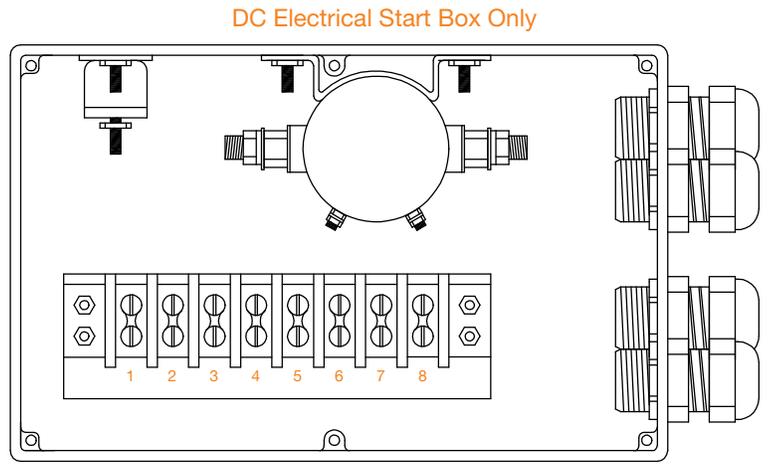
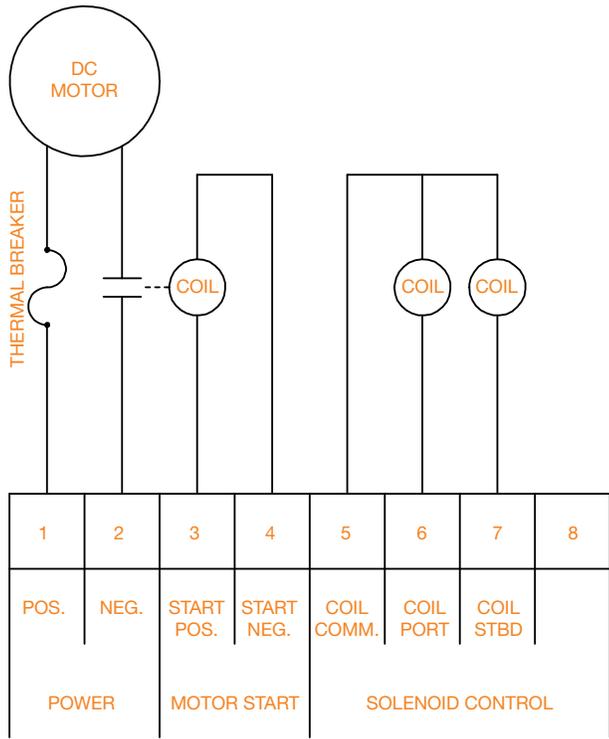
Medium-Duty Hydraulic Pump Unit **HPU100**

The Accu-Steer HPU100 offers adjustable flow rate operation (0.1 - 1.0 gal/min) and consists of a continuous running pump set and flow control that is second to none in performance and dependability. It accommodates steering systems of 50 cu. in. Available in 12 VDC or 24 VDC.

FEATURES

- An adjustable flow rate of 0.1 - 1.0 gal/min
- Heavy-duty, high efficiency motor with oversized accessible brush gear and ball bearing construction
- Pressure relief
- Fast jogging
- Heavy-duty construction for long life and lasting dependability
- Ideal for new and retrofit applications
- Can be used with most autopilots





Shipping weight: 28 lbs • Dimensions: 14" x 12" x 12"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

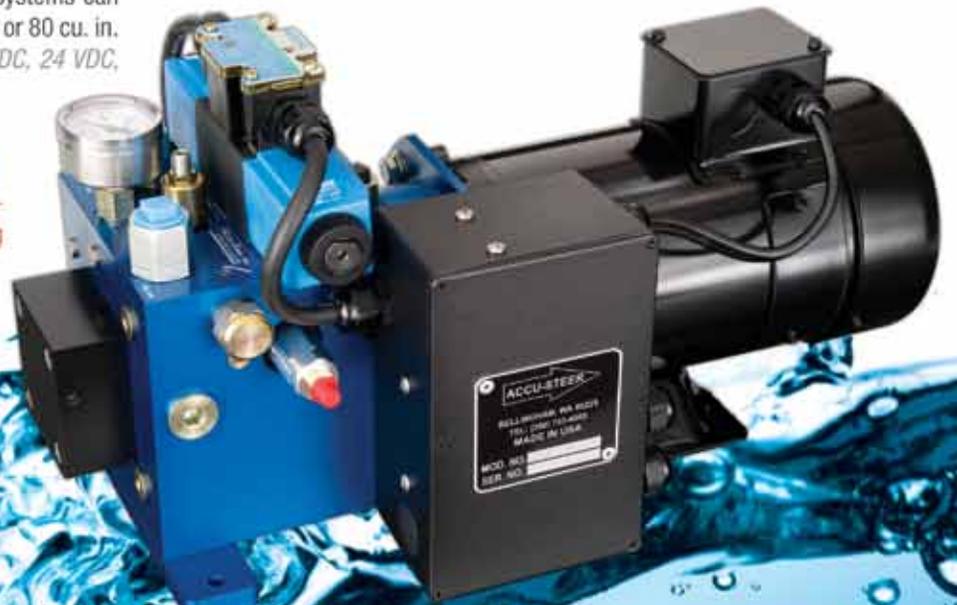
Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

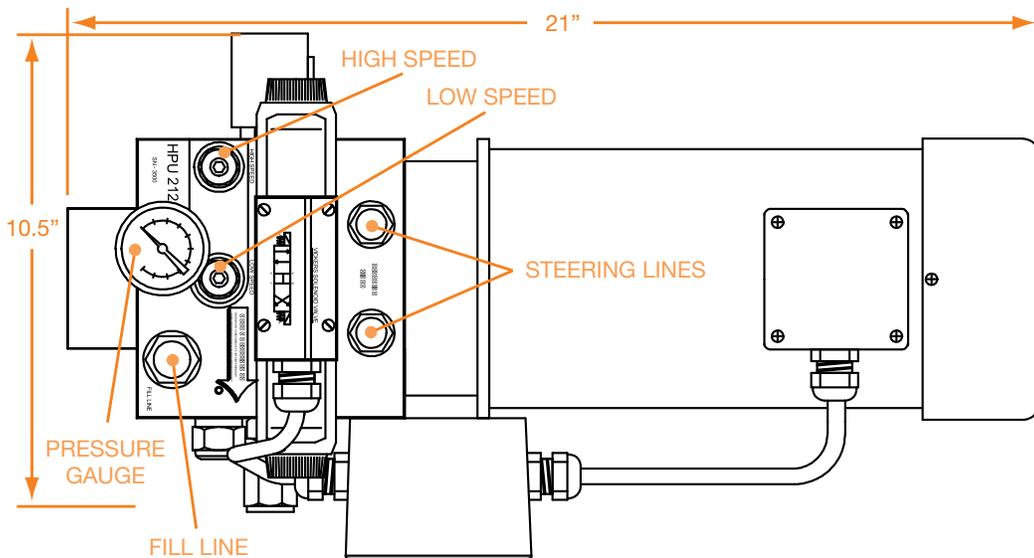
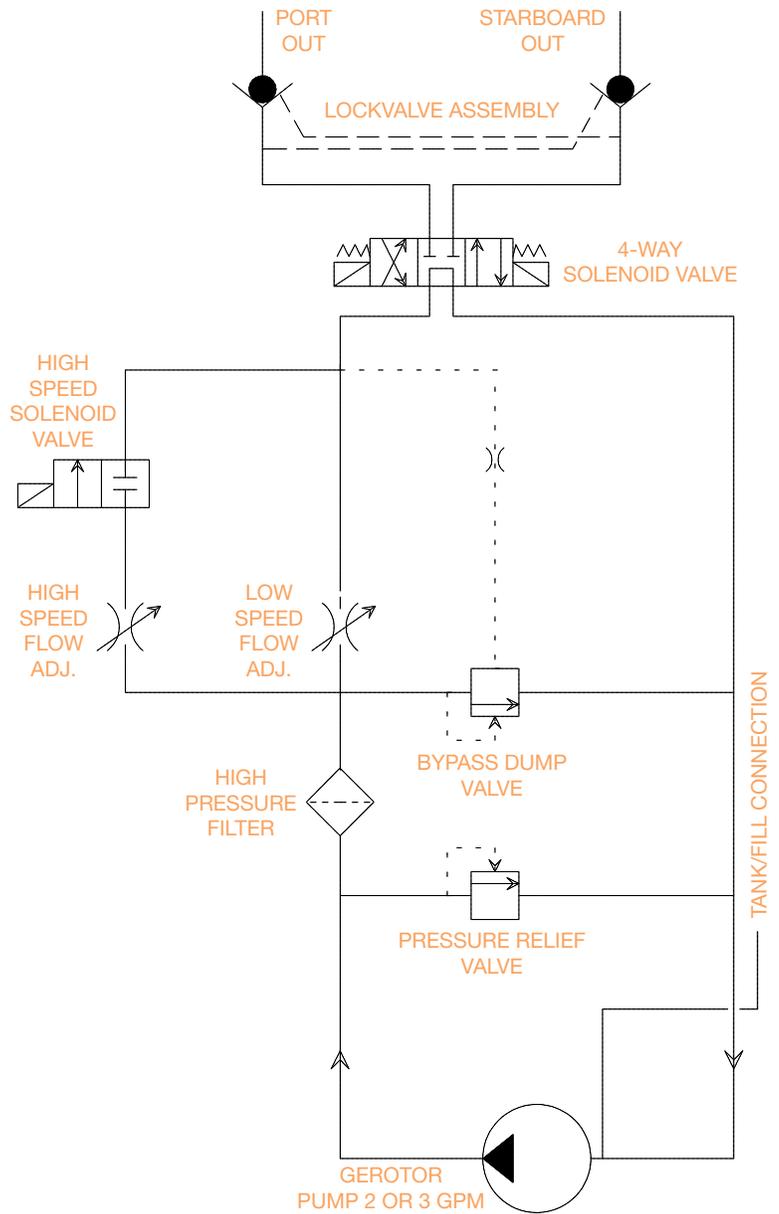
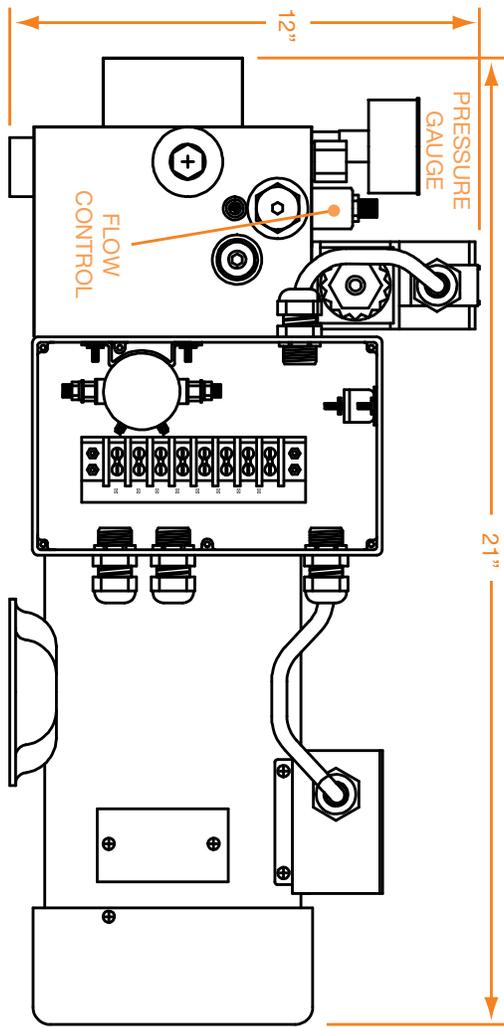
Heavy-Duty Hydraulic Pump Unit **HPU212 Series**

The Accu-Steer HPU212-200 and HPU212-300 offers selectable 2-speed operation and consists of a continuous running pump set and flow control that is second to none in performance and dependability. Steering systems can range from 20 cu. in. to 80 cu. in. (200 model) or 80 cu. in. to 125 cu. in. (300 model). Available in 12 VDC, 24 VDC, 32 VDC or AC voltages.

FEATURES

- Individually adjustable high and low speeds
- Heavy-duty, high efficiency motor with oversized accessible brush gear and ball bearing construction
- Pressure gauge
- Fast jogging
- Heavy-duty construction for long life and lasting dependability
- Ideal for new and retrofit applications





Shipping weight: 85 lbs • Dimensions: 24" x 16" x 13"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

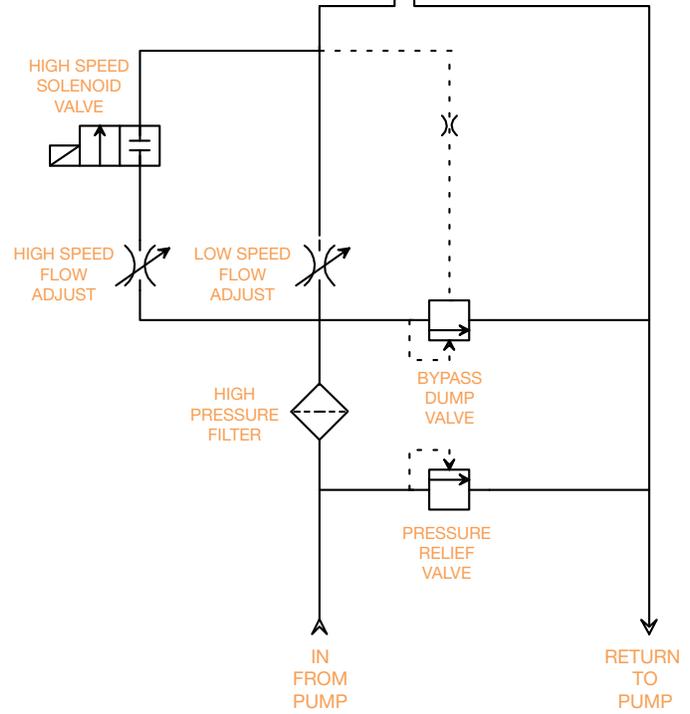
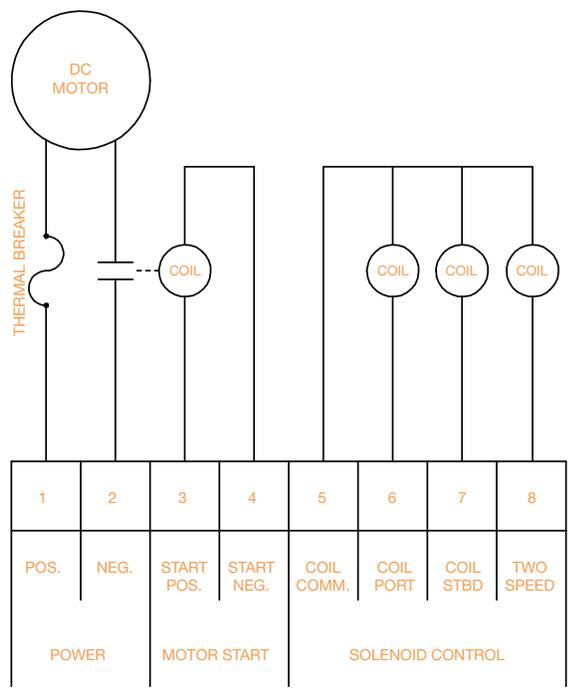
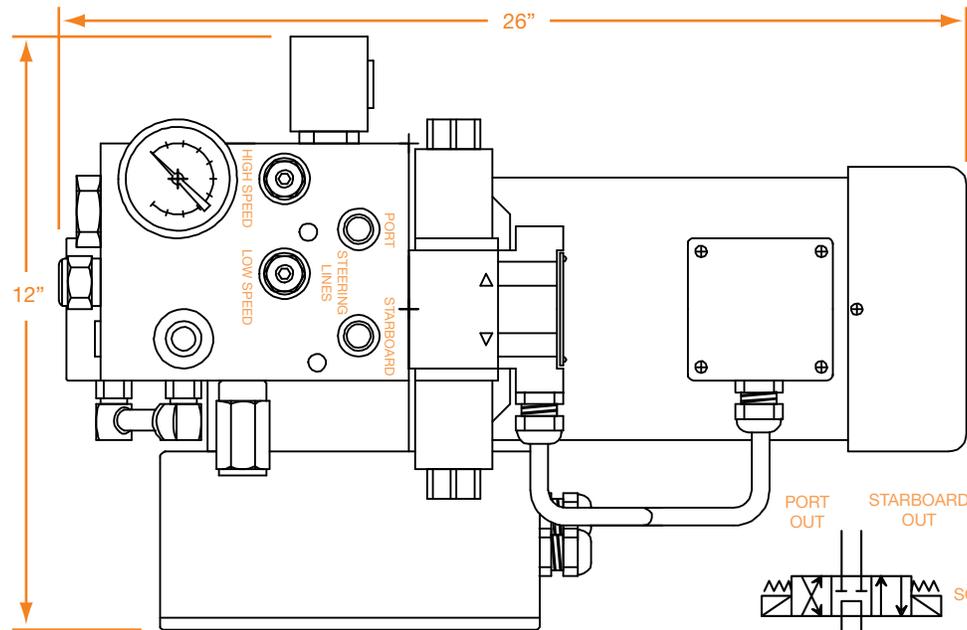
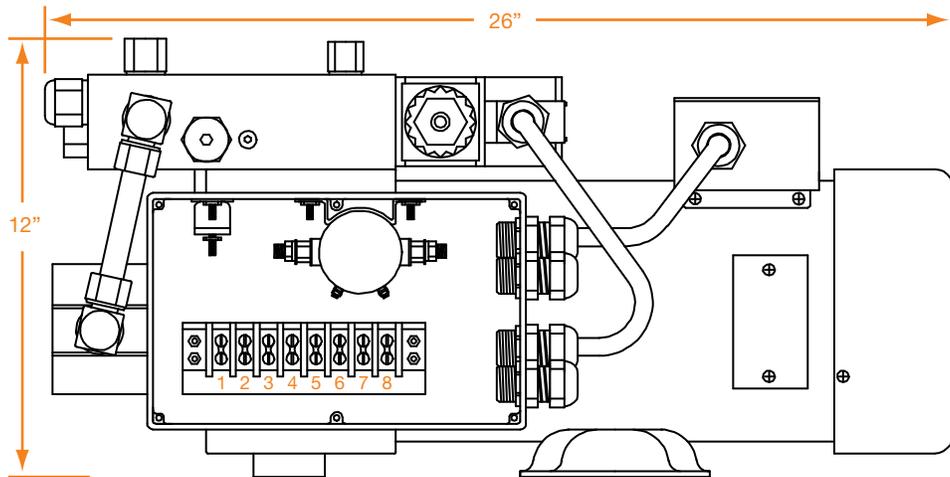
Heavy-Duty Hydraulic Pump Unit **HPU400**

The Accu-Steer **HPU400** offers selectable 2-speed operation and consists of a continuous running pump set and flow control manifold that is second to none in performance and dependability. Steering systems can range from 100 cu. in. to 160 cu. in. All units available in full range of AC (50Hz or 60Hz) and DC drives with AC or DC solenoid valves.

FEATURES

- Individually adjustable high and low speeds
- Heavy-duty, high efficiency motor with oversized accessible brush gear and ball bearing construction
- High pressure filter assembly
- Pressure gauge
- Fast jogging
- Heavy-duty construction for long life and dependability
- Ideal for new and retrofit applications
- Can be used with most autopilots





Shipping weight: 105 lbs • Dimensions: 27" x 16" x 13"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

Medium-Duty Hydraulic Reversing Pump Unit **HRP Series**

The Accu-Steer **HRP05**, **HRP11** and **HRP17** pump sets are designed to interface hydraulic steering systems with autopilot and electric steering controls. The output flow from the pump set determines the speed of the rudder. These pumps interface with most autopilots. Available in 12 VDC or 24 VDC.

FEATURES

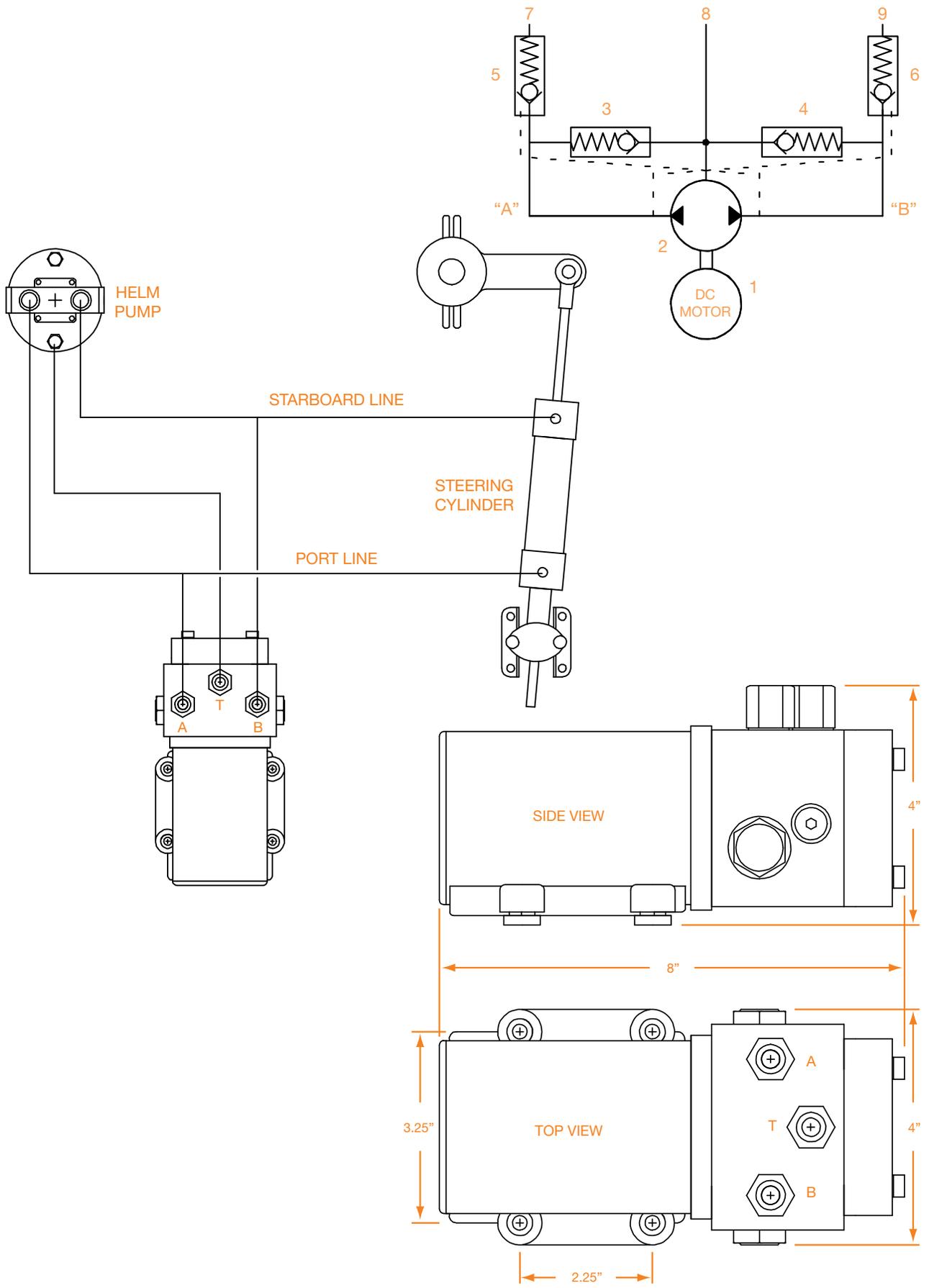
- Accu-Steer **HRP05** outputs 0.5 cu in/sec
- Accu-Steer **HRP11** outputs 1.0 cu in/sec
- Accu-Steer **HRP17** outputs 1.6 cu in/sec
- Rugged compact construction
- Units mount easily
- Gerotor gear technology ensures "Whisper Quiet" operation

"The Whisper Quiet" Reversing Pump Set

Available models:

HRP05
HRP11
HRP17





Shipping weight: 10 lbs • Dimensions: 10" x 5" x 5"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

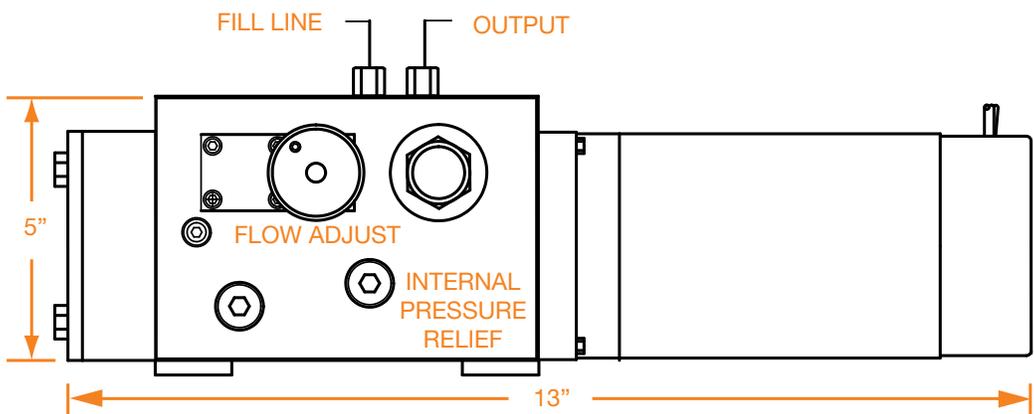
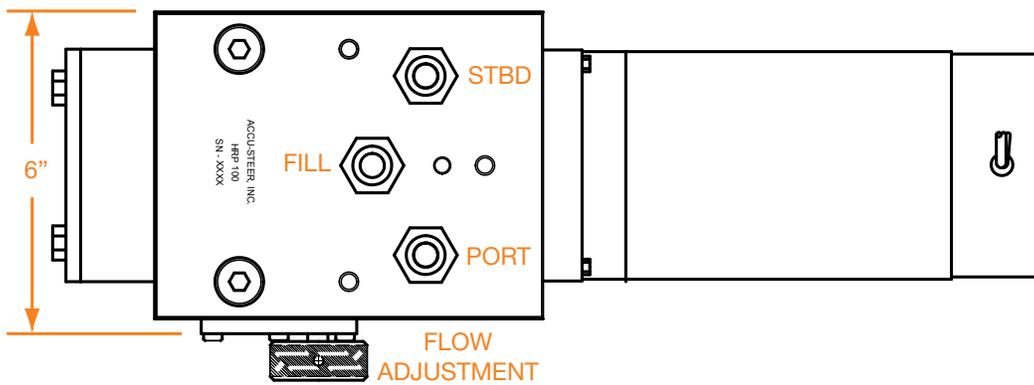
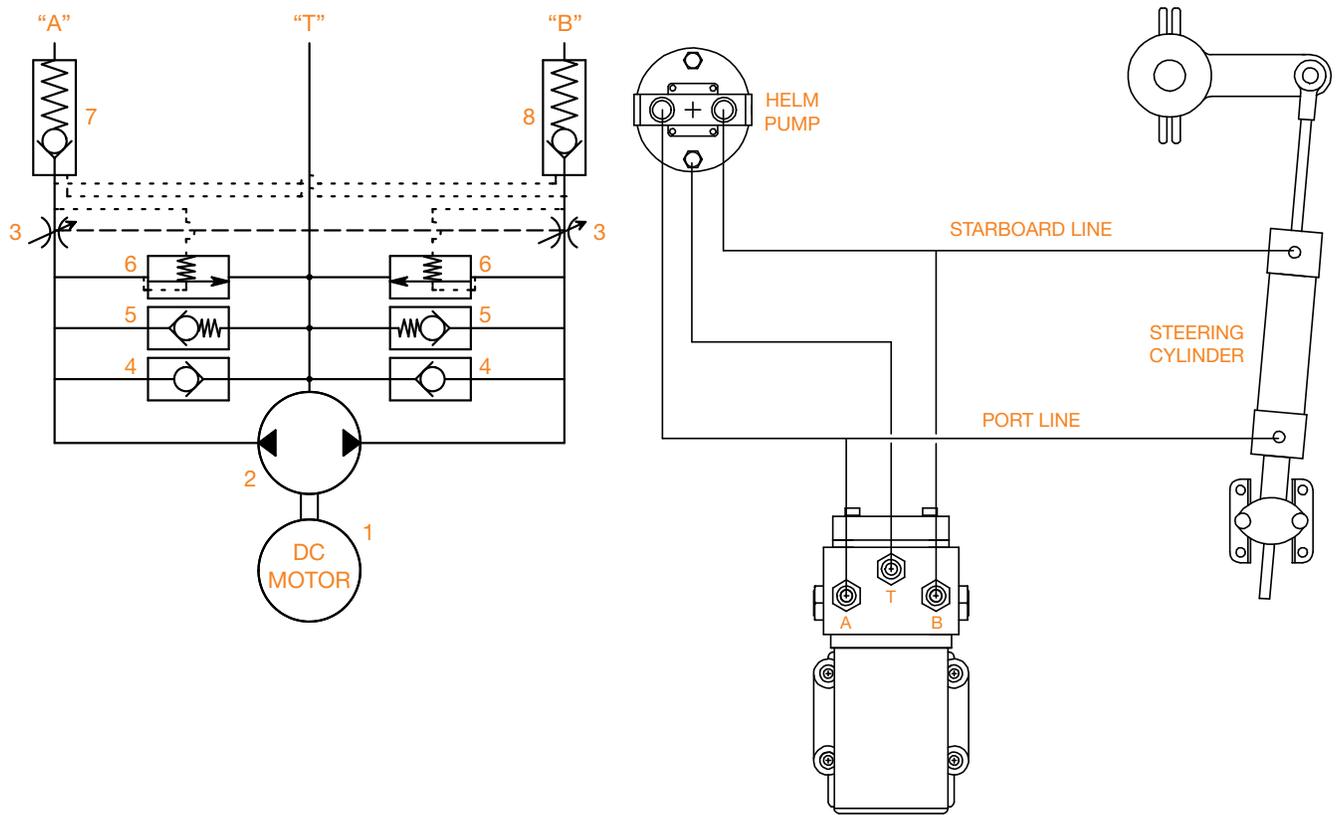
Medium-Duty Hydraulic Reversing Pump Unit **HRP100**

The Accu-Steer HRP100 pump set is designed to interface hydraulic steering systems with autopilot or electric steering control systems. The output flow from the pump set determines the speed of the rudder. The output flow of the HRP100 is adjustable between 0 and 3.9 cu in per second. The pump has built-in pressure relief valves, which are factory set at 500 psi. This pump is recommended for medium-duty applications on hydraulic steering systems that are 50 cu in or smaller in volume. The compact and rugged construction provides for easy installation and long life operation. This pump model will interface with most marine autopilot systems. *Available in 12 VDC or 24 VDC.*

FEATURES

- Adjustable flow control
- Pressure relief
- High temperature windings
- Ignition protected (UL1500)
- Heavy-duty, high efficiency drive motor with oversized accessible brush gear and ball bearing construction
- Ideal for new and retrofit applications
- Can be used with most autopilots





Shipping weight: 18 lbs • Dimensions: 18" x 9" x 9"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

Medium-Duty Linear Actuator Unit **LA11 LA17**

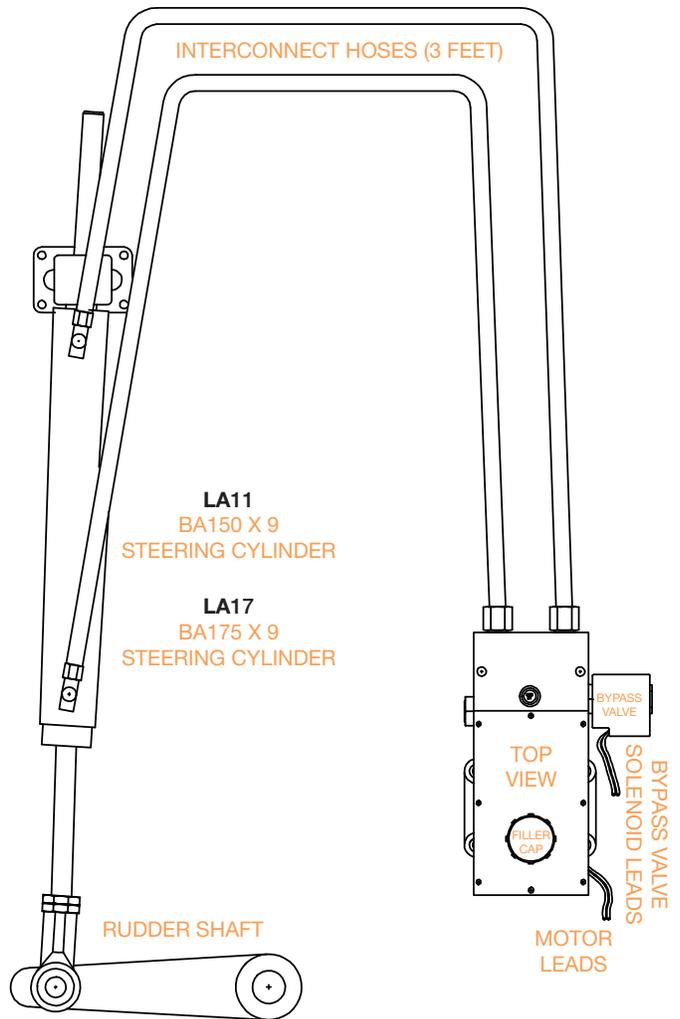
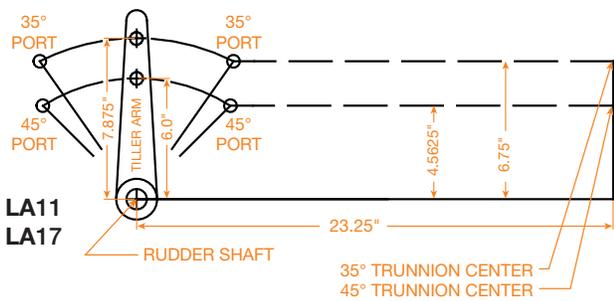
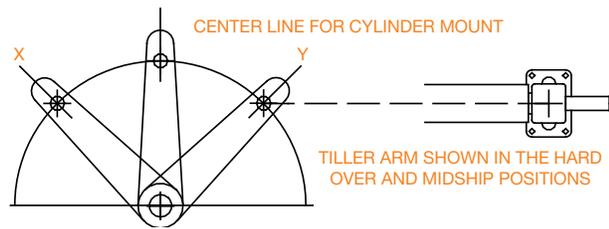
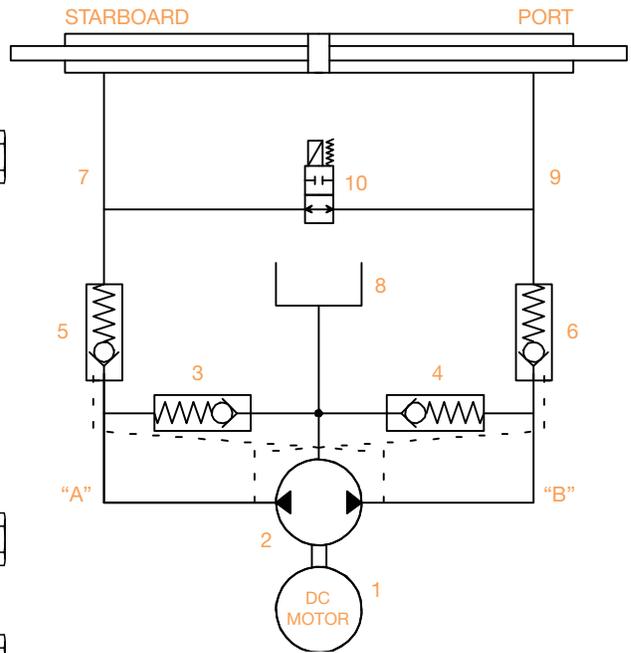
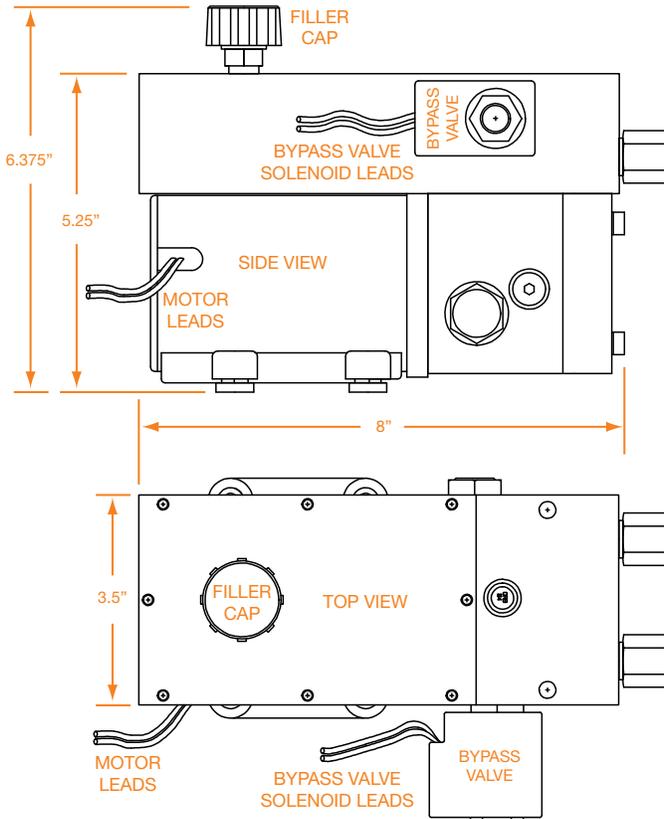
The Accu-Steer LA11 and LA17 linear actuators are designed to interface an autopilot system with mechanical steering systems such as wire, cable or chain drives. These linear actuators consist of a hydraulic drive unit, a steering cylinder and interconnecting hoses. These units are also available as the LA11D and LA17D which consist of the drive-only. Both units available in 12 VDC or 24 VDC.

FEATURES

- Heavy-duty brass cylinder
- Accu-Steer LA11 uses a 1.50" X 9" HC5369 RAM
- Accu-Steer LA17 uses a 1.75" X 9" HC5373 RAM
- Stainless steel braid covered hoses
- Compact and rugged drive unit

"The Whisper Quiet" Reversing Pump Set





LA11 Shipping weight: 37 lbs • Dimensions: 36" x 12" x 10"
LA17 Shipping weight: 41 lbs • Dimensions: 36" x 12" x 12"

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

Defining **Reliability** through form and function.

(Each unit is completely tested after assembly)

Dedicated to quality high-performance hydraulic control of steering systems for yachts and commercial vessels

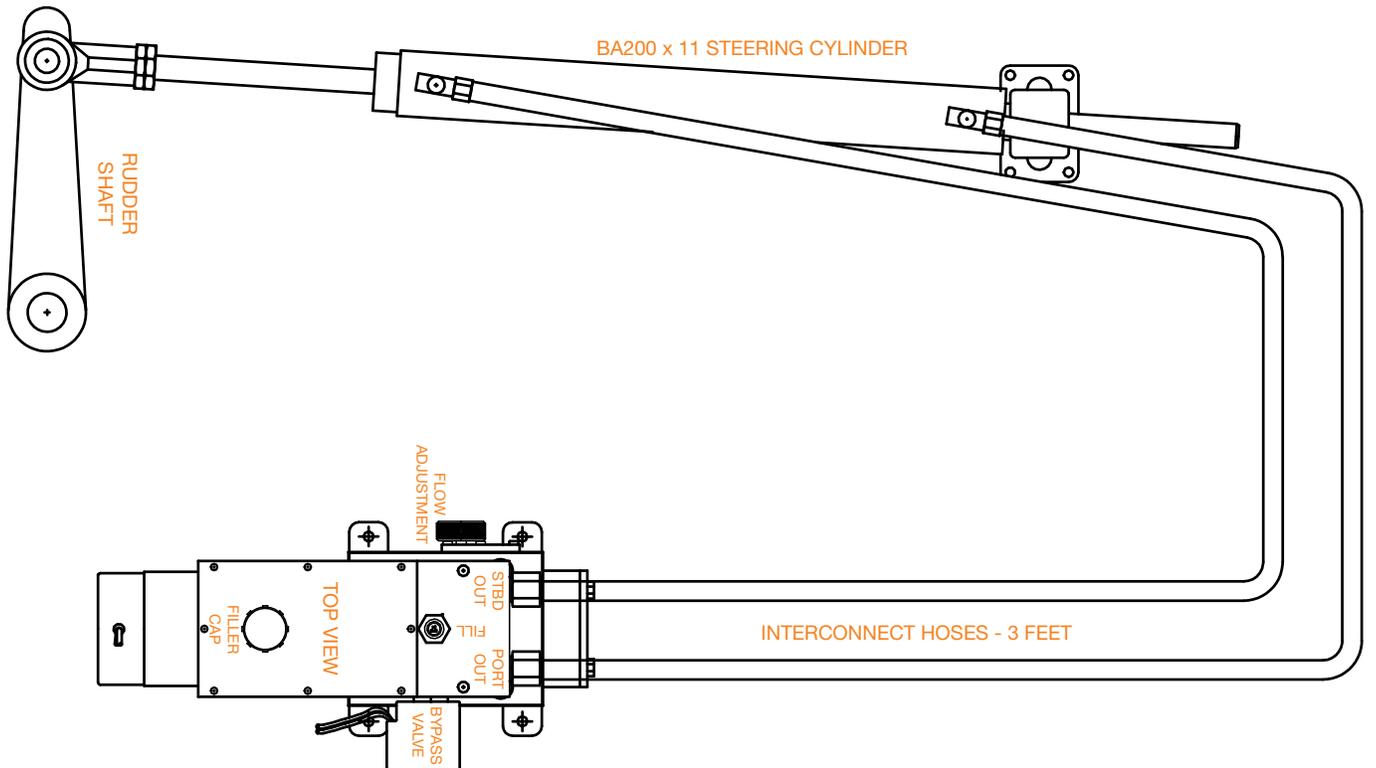
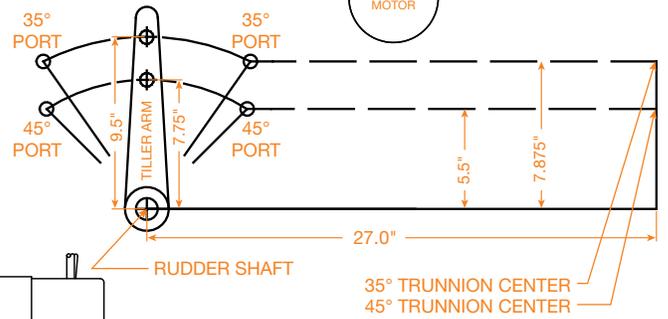
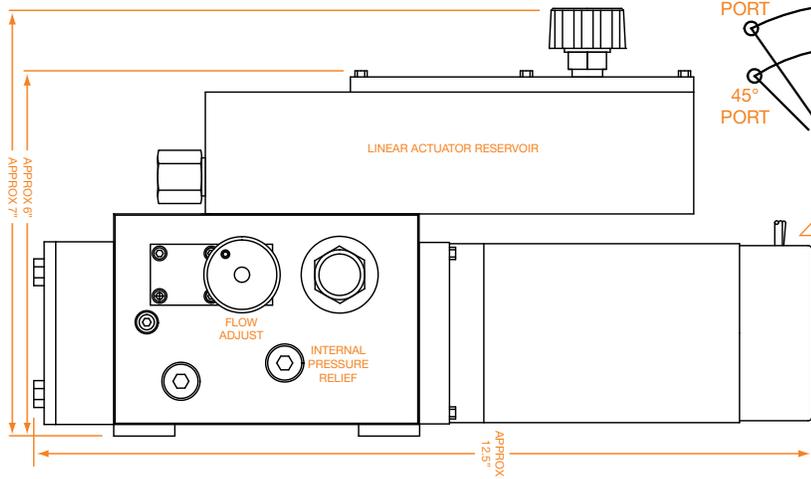
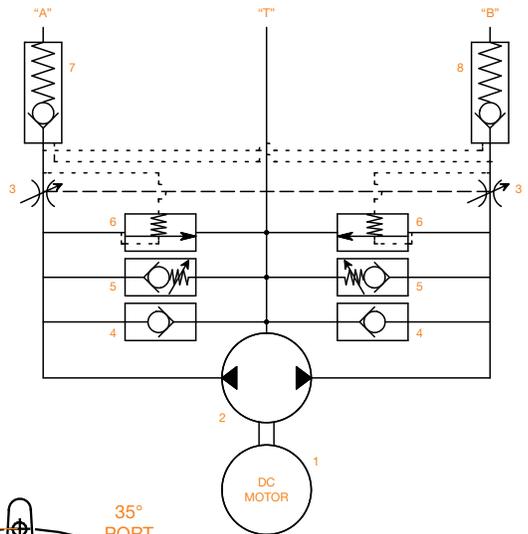
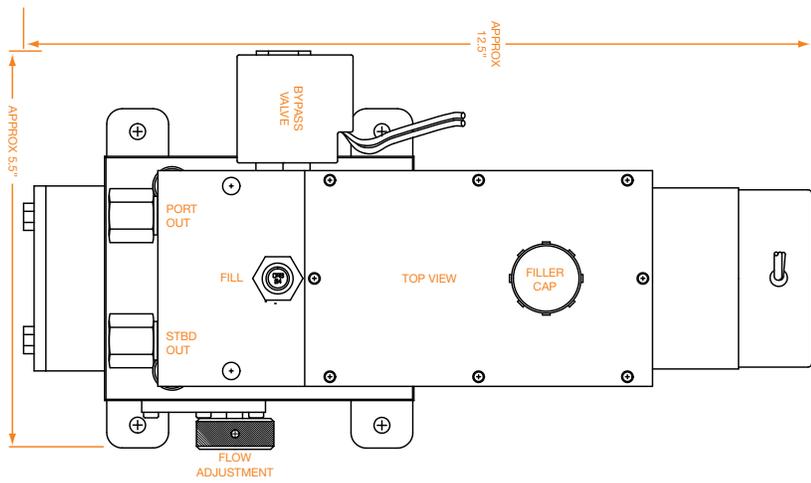
Heavy-Duty Linear Actuator Drive Unit **LA100**

The Accu-Steer LA100 linear actuator is designed to interface an autopilot system with a new or existing mechanical steering systems such as wire, cable or chain drives. A hydraulic linear actuator system consists of a hydraulic drive unit (containing a pump unit, bypass valve and reservoir assembly), a steering cylinder and the interconnecting hoses. This unit is also available as the LA100D which consists of the drive-only so it can be used with an existing cylinder to replace a damaged or worn drive system. Available in 12 VDC or 24 VDC.

FEATURES

- Heavy-duty brass cylinder (2" bore X 11" stroke)
- Stainless steel braid covered hoses
- Compact and rugged drive unit
- Adjustable speed and pressure relief





Shipping weight: 48 lbs • Dimensions: 36" x 12" x 10"



U.S.A. Price List 2015

MSRP (Prices subject to change without notice)

PS7-05/11/17 | \$2,395.00

Heavy-Duty Hydraulic Power Steering Unit

This power steering system senses both the oil flow from the helm pump and the direction of that flow. It activates a hydraulic reversing pump which pumps oil in the same direction as the helm pump. This system accepts a non-follow-up jog lever input to allow jog steering and is also capable of accepting steering input from an existing autopilot or can be used as the hydraulic pump for new autopilot installations. This system is available in three sizes: **PS7-05** (up to 6 CU IN), **PS7-11** (up to 14 CU IN), **PS7-17** (up to 22 CU IN). The solenoid is available in 12 VDC or 24 VDC.

PS7-100 | \$3,295.00

Heavy-Duty Adjustable Hydraulic Power Steering Unit

This power steering system senses both the oil flow from the helm pump and the direction of that flow. It activates a hydraulic reversing pump which pumps oil in the same direction as the helm pump. The solenoid is available in 12 VDC or 24 VDC.

HM190 | \$1,195.00

Medium-Duty Hydraulic Steering Manifold

This manifold has single-speed operation with flow control adjustment, pressure relief (factory set at 750 PSI) and internal lock valve. It allows input flows up to 5 GPM and output flows to 2.5 GPM. The solenoid is available in 12 VDC, 24 VDC or AC voltages.

HM260 | \$1,795.00

Heavy-Duty Hydraulic Steering Manifold

This manifold has 2-speed operation with independent high and low flow adjustment, output lockvalves, pressure relief (factory set at 750 PSI) and high pressure filtration. It allows input flows up to 10 GPM and output flows to 5 GPM. The solenoid is available in 12 VDC, 24 VDC or AC voltages.

HM400 | \$2,195.00

Heavy-Duty Hydraulic Steering Manifold

This manifold has 2-speed operation with independent high and low flow adjustment, pressure relief (factory set at 750 PSI) and internal lock valve. It allows input flows up to 18 GPM and output flows to 7.5 GPM. The solenoid is available in 12 VDC, 24 VDC or AC voltages.

HPP522 | \$4,195.00

HPP523 | \$4,295.00

HPP524 | \$4,395.00

Heavy-Duty Hydraulic Power Pack (Tank Model)

This pump offers selectable 2-speed steering operation and consists of a continuous running pump set and flow control manifold. It is designed to be a standalone system or connected to an existing cooling/reservoir tank or may be purchased with an optional cooling/reservoir tank as part of the system. It will control steering systems from 30-160 CU IN of volume.

The **HPP522** is a two GPM pump, 2.0-7.8 CU IN/SEC.

The **HPP523** is a three GPM pump, 3.0-11.7 CU IN/SEC.

The **HPP524** is a four GPM pump, 4.0-15.6 CU IN/SEC.

All units available in a wide range of AC and DC drive voltages and AC and DC solenoid control voltages.

HPU100 | \$1,995.00

Medium-Duty Hydraulic Pump Unit

This pump set has an adjustable flow control and pressure relief, operates quietly and is designed for steering systems up to 50 CU IN. This unit is available in 12 VDC or 24 VDC.

Optional, \$395.00: 12 VDC or 24 VDC soft shift valve.

HPU212-200 | \$3,795.00

Heavy-Duty Hydraulic Pump Unit

This continuous running pump set has 2-speed operation with independent high and low flow adjustment, pressure relief and high pressure filtration for steering systems up to 90 CU IN. This unit is available in 12 VDC or 24 VDC or AC voltages.

Optional, \$395.00: 12 VDC or 24 VDC soft shift valve.

HPU212-300 | \$3,995.00

Heavy-Duty Hydraulic Pump Unit

This continuous running pump set has 2-speed operation with independent high and low flow adjustment, pressure relief and high pressure filtration for steering systems up to 120 CU IN. This unit is available in 12 VDC, 24 VDC or AC voltages.

Optional, \$395.00: 12 VDC or 24 VDC soft shift valve.

HPU400 | \$4,195.00

Heavy-Duty Hydraulic Pump Unit

This continuous running pump set has 2-speed operation with independent high and low flow adjustment, pressure relief and high pressure filtration for steering systems up to 150 CU IN. This unit is available in 24 VDC or AC voltages.

Optional, \$395.00: 12 VDC or 24 VDC soft shift valve.



HRP05 | \$829.00

**Medium-Duty Hydraulic Reversing Pump Set
UL1500IP**

This pump set has a fixed output of 0.5 CU IN/SEC, operates quietly and is designed for steering systems up to 8 CU IN.

This unit is available in 12 VDC or 24 VDC.

HRP11 | \$829.00

**Medium-Duty Hydraulic Reversing Pump Set
UL1500IP**

This pump set has a fixed output of 1.0 CU IN/SEC, operates quietly and is designed for steering systems up to 18 CU IN.

This unit is available in 12 VDC or 24 VDC.

HRP17 | \$829.00

**Medium-Duty Hydraulic Reversing Pump Set
UL1500IP**

This pump set has a fixed output of 1.6 CU IN/SEC, operates quietly and is designed for steering systems up to 30 CU IN.

This unit is available in 12 VDC or 24 VDC.

HRP100 | \$1,595.00

**Medium-Duty Hydraulic Reversing Pump Set
UL1500IP**

This pump set has an adjustable flow control, pressure relief, operates quietly and is designed for steering systems up to 50 CU IN with a maximum output of 3.9 CU IN/SEC.

This unit is available in 12 VDC or 24 VDC.

KVR-3 | \$195.00

Steering Adapter Kit *Verado Hose Adapter Kit 3-Foot*

KVH-6 | \$285.00

Steering Adapter Kit *Verado Hose Adapter Kit 6-Foot*

LA11 | \$2,695.00

**Medium-Duty Hydraulic Linear Actuator
UL1500IP**

Hydraulic reversing pump with bypass valve & reservoir tank. *System includes:* brass hydraulic cylinder (1.5" x 9" RAM), 36" stainless steel braid covered interconnect hose set and the **LA11** drive unit in 12 VDC or 24 VDC.

LA11D | \$1,595.00

**Medium-Duty Hydraulic Linear Actuator Drive-Only
UL1500IP**

Hydraulic reversing pump with bypass valve & reservoir tank.

LA17 | \$2,895.00

**Medium-Duty Hydraulic Linear Actuator
UL1500IP**

Hydraulic reversing pump with bypass valve & reservoir tank. *System includes:* brass hydraulic cylinder (1.75" x 9" RAM), 36" stainless steel braid covered interconnect hose set and the **LA17** drive unit in 12 VDC or 24 VDC.

LA17D | \$1,695.00

**Medium-Duty Hydraulic Linear Actuator Drive-Only
UL1500IP**

Hydraulic reversing pump with bypass valve & reservoir tank.

LA100 | \$3,795.00

**Heavy-Duty Hydraulic Linear Actuator
UL1500IP**

Hydraulic reversing pump with bypass valve & reservoir tank. *System includes:* brass hydraulic cylinder (2" x 11" RAM), 36" stainless steel braid covered interconnect hose set and the **LA75** drive unit in 12 VDC or 24 VDC.

LA100D | \$2,395.00

**Heavy-Duty Hydraulic Linear Actuator Drive-Only
UL1500IP**

Hydraulic reversing pump with bypass valve & reservoir tank.



Domestic Warranty Policy 2015

Accu-Steer, Inc. products are warranted to be free from defects in material or workmanship for a period of 12 months from date of installation or 18 months from the date of shipment from Accu-Steer, Inc. factory.

Warranty field repair will be paid only if authorized by the factory prior to performance of work. Authorized field repair will be reimbursed at the rate of \$60 US per hour. Units returned to the factory for warranty repair will be accepted freight prepaid. Warranty repairs will be returned prepaid UPS Ground, domestic only. Expedited freight will be at the customer's expense.

Accu-Steer, Inc. warranty policy does not apply to equipment which has been damaged due to improper installation or operation, or that has been subjected to accident, abuse, misuse, water damage or modification.

This warranty specifically excludes Accu-Steer, Inc. for any consequential damages including but not limited to the loss or damage of any vessel, structure, or to any person or persons or any delay suffered in connection with the use of this product.

RETURNS: All authorized returns for credit are subject to a 15% restocking charge plus cost of damaged parts. Returns will be accepted only if they are properly packaged and returned freight prepaid.



Domestic Dealer Policy 2015

DISCOUNT: Servicing dealers and volume OEM dealers, 30%.

TERMS: Net 30 days. Overdue accounts will be assessed 1.5% monthly carrying charge.

PROMPT PAY DISCOUNT: 5% of net invoice amount excluding freight charges may be deducted if the invoice is paid within 10 days of the invoice date. Prompt pay discount will not be allowed on accounts that are not current.

WARRANTY: Please refer to Accu-Steer, Inc.'s DOMESTIC WARRANTY POLICY.

RETURNS: All authorized returns for credit of unused products are subject to a 15% restocking charge plus the cost of damaged parts. Returns will be accepted only if products are properly packaged and returned freight prepaid.

DEALER QUALIFICATIONS: The following must be met:

- (1) Qualifiers must be dedicated to the proper representation, installation and servicing of Accu-Steer, Inc. products.
- (2) Qualifiers must maintain a regular store front, service, or manufacturing location.
- (3) Qualifiers must maintain their account in a current status.

STAYING TRUE TO YOUR COURSE.



Accu-Steer, Inc. Dealer Application 2015

COMPANY NAME: **YOUR NAME:**

BILLING ADDRESS:

SHIPPING ADDRESS (IF DIFFERENT FROM ABOVE):

TELEPHONE: **FAX:**

EMAIL:

PRINCIPALS:

(1)

(2)

DESCRIPTION OF BUSINESS:

YEARS IN BUSINESS: **FEDERAL ID #91-**

RESALE #: **EMAIL:**

TRADE REFERENCES:

(1) **TELE:**

(2) **TELE:**

(3) **TELE:**

BANK: **TELE:**

ACCOUNT #: **CONTACT:**

SIGNATURE: **TITLE:** **DATE:**

Please return to:

Mail: Accu-Steer, Inc. • 704 Coho Way • Bellingham, WA 98225

Fax: (360) 733-4575



Proven Quality Performance

STAYING TRUE TO YOUR COURSE.

Accu-Steer, Inc.

PRODUCT GUIDE

HIGH-PERFORMANCE HYDRAULIC CONTROL OF STEERING SYSTEMS

2015