

Introducing the new S4 Steering System from R.E. Thomas Marine Hardware. An entirely new commercial-grade steering system designed in collaboration with Lonnie's Hydraulic Services in Topsham, ME (one of the premier marine hydraulic steering service companies in New England).

We reimaged what a hydraulic steering system could be designing the S4 Steering System for maximum durability, performance, and safety based on over 50 years of manufacturing critical marine drivelines and steering components.

Constructed entirely of machined 316 stainless steel and aircraft-quality aluminum, the S4 Steering System delivers unmatched torque and pressure ratings while maintaining exceptional serviceability.

These features make the S4 Steering System ideal for recreational and commercial vessels between 30' and 54' in length.



Since 1973 R.E. Thomas Marine Hardware, Inc. has been a name that our customers can trust. We manufacture the highest quality marine hardware, including: shafts, shaft bearings, stuffing boxes, shaft seals, skeg bearings, and rudder ports.



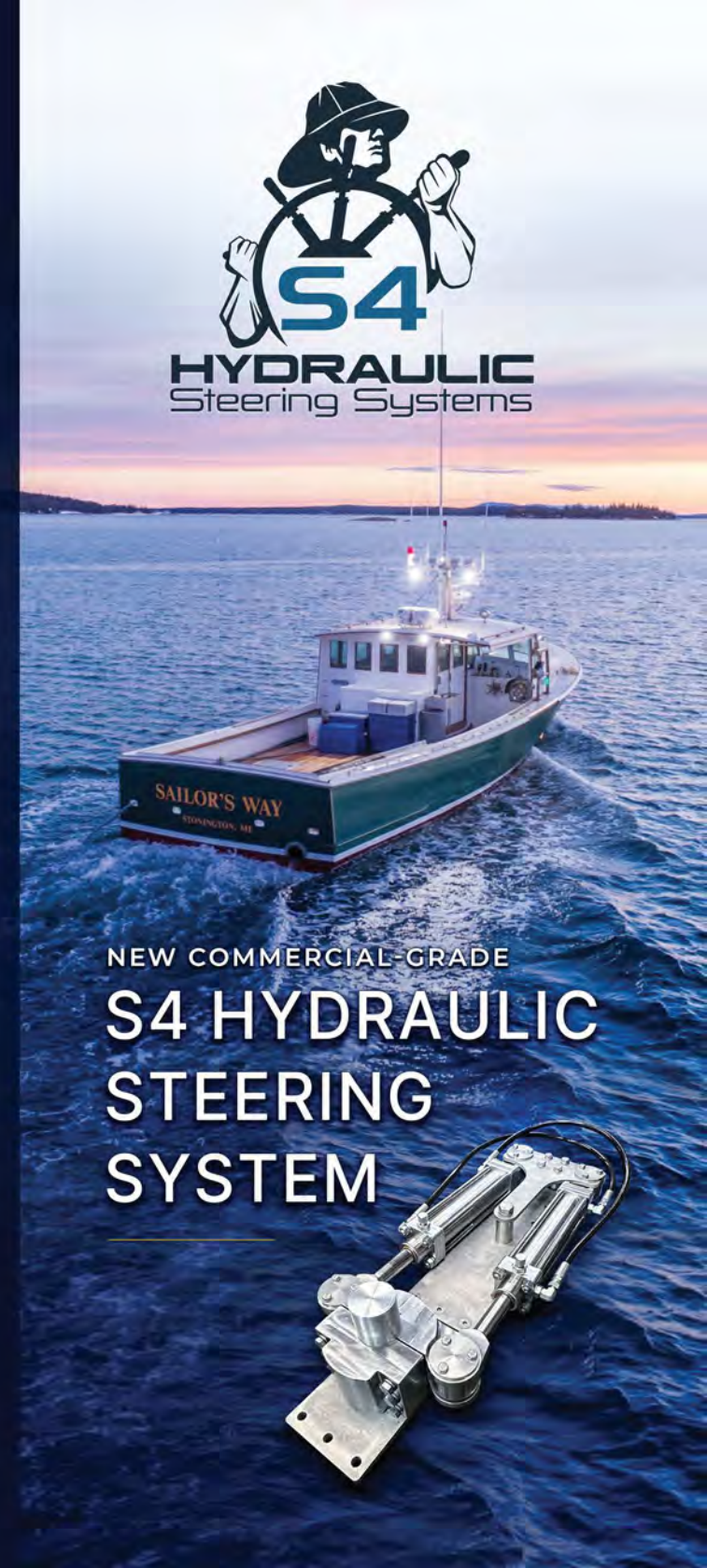
Lonnie's Hydraulic Inc.

1 (207) 422-6532

sales@retmarine.com

14 Franklin Road,  
Hancock ME 04640

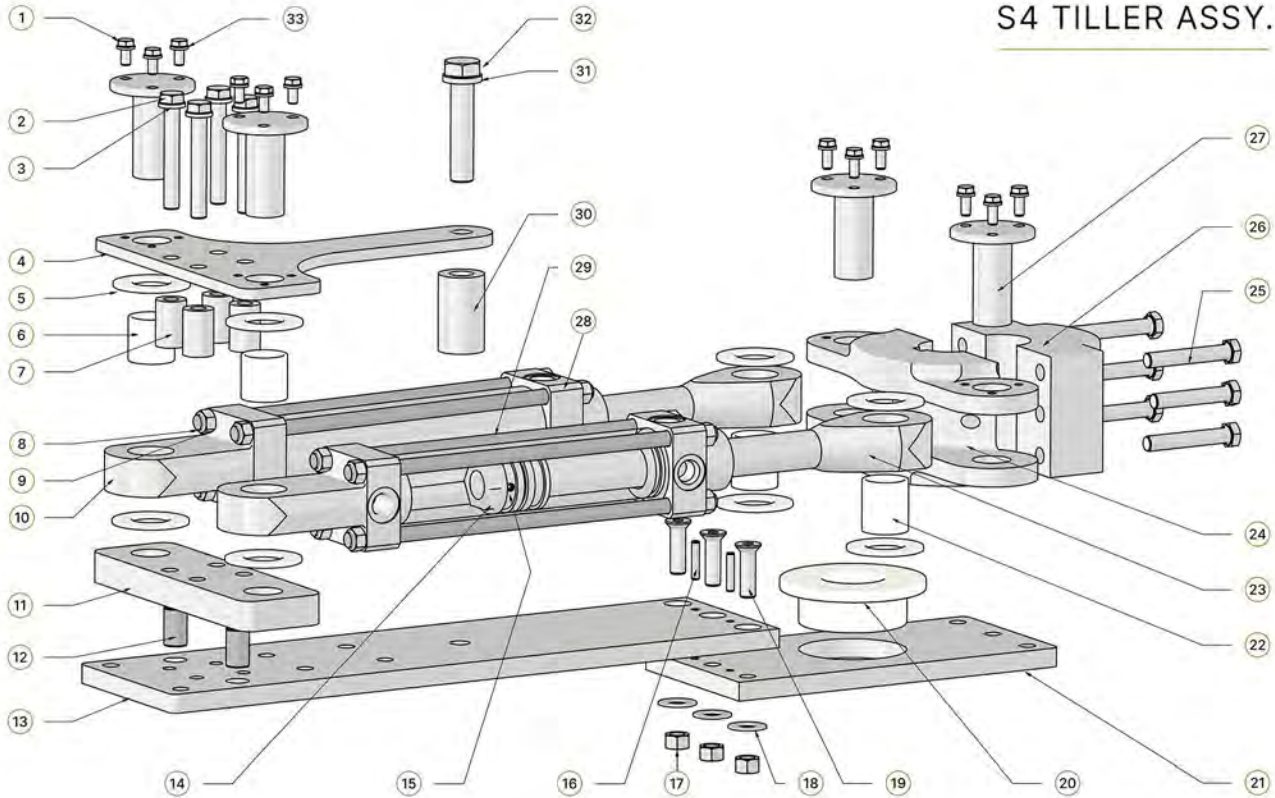
[www.retmarine.com](http://www.retmarine.com)



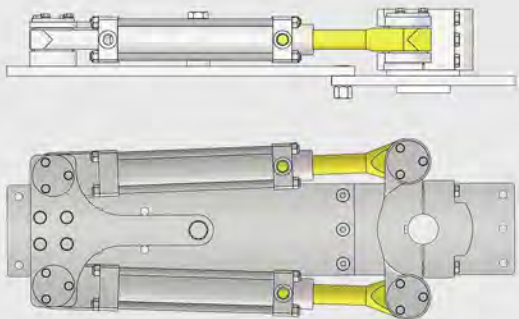
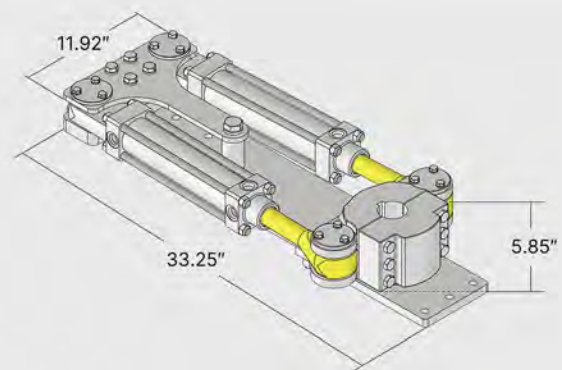
NEW COMMERCIAL-GRADE  
**S4 HYDRAULIC  
STEERING  
SYSTEM**



## S4 TILLER ASSY.



- |  |  |  |   |
|--|--|--|---|
| 1. ANSI B18.2.1-5/16-18 UNC x 0.75 (x12)             | 9. SUPER-CORROSION-RESISTANT SS HEX NUT (x8) | 18. SS WASHER (x3)                               | 26. CLAMP   |
| 2. ANSI B18.2.1 - 1/2-20 UNF x 3.5 SS                | 10. BASE (x2)                                | 19. SOCKET HD FL CS CS 1/2-20 UNF x 1.75 SS (x3) | 27. S4 PIN (x4)                                       |
| 3. HELICAL SPRING LOCK WASHER ANSI B18.21.1 - 0.5 SS | 11. REAR MOUNT                               | 20. RUDDER BUSHING                               | 28. CYL GLAND (x2)                                    |
| 4. TOP PLATE   | 12. DOWEL PIN (x2)                           | 21. BUSHING PLATE                                | 29. CYL TUBE (x2)                                     |
| 5. THRUST WASHER (x8)                                | 13. CENTER FRAME                             | 22. CYL ROD BUSHING (x2)                         | 30. TORQUE ARM SPACER                                 |
| 6. BASE BUSHING (x2)                                 | 14. CYLINDER PISTON (x2)                     | 23. CYL ROD                                      | 31. HELICAL SPRING LOCK WASHER ASME B18.21.1 - 3/4 SS |
| 7. REAR SPACER (x4)                                  | 15. SS FLAT TIP SET SCREW (x2)               | 24. TILLER HEAD                                  | 32. ANSI B18.2.1 - 3/4-10 UNC x 3.5                   |
| 8. CYL TIE ROD (x8)                                  | 16. 1/4 X 1.25 SS DOWEL PIN (x2)             | 25. ANSI B18.2.1 - 1/2-20 UNF x 3 SS (x6)        | 33. HELICAL SPRING LOCK WASHER ANSI B18.21.1 SS (x12) |



- ✔ 100 degrees of total rudder movement with up to 50,000 in/lbs of torque.
- ✔ Heavy duty 316 stainless cylinders, rated to 3000 PSI. Designed and modeled from heavy equipment cylinders using high-performance seals and wear bands, with the easy assembly of a tie-rod cylinder.
- ✔ Precision machined from solid 316 stainless bar stock, with no castings or weldments.
- ✔ Hi-performance Vesconite HiLube bushings eliminate "sloppiness" and provide high load-bearing strength, high wear resistance, and low friction without requiring manual lubrication.
- ✔ Dual-ported cylinder gland allows internal connection for cross-hose plumbing, eliminating external tees and reducing failure/ leak points.
- ✔ Available in rudder bores from 1-1/2" to 3".
- ✔ The subframe promotes easy installation while maintaining correct geometry between all components.
- ✔ Split tiller head design and removable bushing subplate allow access to the rudder box (port) for servicing.
- ✔ The subframe rudder bushing adds a third bearing aligned with the rudder shaft, transmitting all torque directly to the rudder shaft.
- ✔ Made in the U.S.A.

