

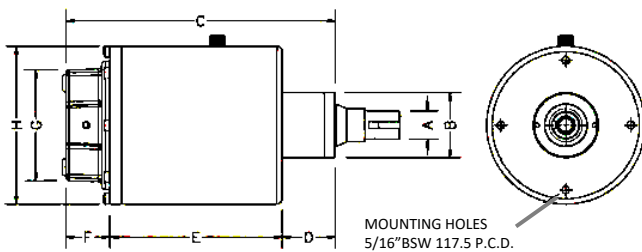


# HYDRIVE HEAVY DUTY SERIES HELM UNITS

- HyDrive's 2000 Series helms have proven their performance over the last 50 years. The unique anti-wear porting design has been retained in the HD series, making them the most durable and efficient pump in their class.
- The HD Series helms are available in a wider range of displacements to meet the increasing demand for larger manual hydraulic steering systems.
- Designed for use with the HyDrive HD Series cylinders, multiple steering stations are simple to install, and offer a range of torques from 100KgM to over 2600KgM making them suitable for most vessels up to 50 Metres.



- Model 103 - 105  
These helms are supplied with fittings to suit 1/2" copper tubing only.
- Model 103 Helm units are supplied with 3/4" taper shafts as standard. Parallel shafts are available as an option.
- Model 104 and 105 units are supplied with 1" Parallel shafts as standard. 3/4" taper shafts are available as an option on model 104 only.
- Model 106 - 107 These helms are supplied with 1" parallel shafts and fittings to suit 5/8" diameter copper tubing only.
- Model 103 to 107 do not have in-built lock valves. When used in dual stations they require the use of lock valves to prevent counter-rotation. Should feed-back be required on one or both stations, one of the manual or electric locking options should be used.  
(See section on feedback options)



## DISPLACEMENTS

- Model 103 - 2.00cu ins (35cc) per rev
- Model 104 - 2.6 cu ins (43cc) per rev
- Model 105 - 5.2 cu ins (86cc) per rev
- Model 106 - 7.5 cu ins (125cc) per rev
- Model 107 - 10 cu ins (165cc) per rev

MODEL	A	B	C	D	E	F	G	H
103	T	59	244	48	156	40	102	144
104	P	59	244	48	156	40	102	144
105	P	59	244	48	156	40	102	144
106	P	59	276	48	182	46	112	170
107	P	59	276	48	182	46	112	170

T=3/4" dia TAPER(1"per ft) SHAFT -3/4 X 3/16" WOODRUFF KEY  
 P=1"dia PARALLEL SHAFT - 1/4" X 1" SQUARE KEY

## Manual Emergency Steering for Power Assisted Systems

The HyDrive HD Series helm units are ideally suited for use with large power steering systems and can provide emergency manual backup steering at working pressures up to 1000psi. These helms install into the power steering circuit and are isolated by means of 3-way ball valves until required in order to maintain total system integrity. For emergency use, they are fully compatible with most hydraulic fluids used in power-assisted systems.

