

Autopilot Drive Selection Guide

It is important to select the correct size pump as it directly influences the ability of the Autopilot to steer the vessel.

An Autopilot Drive will need to give a nominal **“Hard over time” of 10 to 12 seconds** (Or as specified by the Autopilot manufacturer).

The type of vessel to be steered must be considered. The “Hard over time” may be faster on lightweight Planing Craft/ Modern yachts and slower on displacement power boats/ long keel yachts.

Note if the pump is too large, the vessel may over steer and will use more power;
Too small and the Autopilot may struggle to maintain a course.

To use the table below you will need to know the volume of your steering cylinder, Select the Hard over time you require. Follow the column down until you approximately match your cylinder volume. Then select the pump on that row.

Note if your cylinder has a smaller volume, it will have a faster “Hard Over Time”

But if it is larger, it will have a slower “Hard Over Time”

“Hard Over Time” Is the time that the pump takes to drive the rudder from port to starboard stops. “Dock side” (no flow over the rudder).

Cylinder Volume (CC)	HARD OVER TIME (SECONDS)						
	6 to 8	8 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20
75	PR+06						
100	PR+08	PR+06	PR+06				
125	PR+10	PR+08		PR+06			
150	PR+15	PR+10	PR+08		PR+06		
175	PR+15		PR+10	PR+08		PR+06	
200	PR+20	PR+15	PR+10	PR+10	PR+08		PR+06
225	PR+20	PR+15		PR+10		PR+08	
250	PR+20		PR+15		PR+10		PR+08
275	PR+25	PR+20	PR+15			PR+10	
300	PR+25	PR+20		PR+15		PR+10	
325	PR+25	PR+20		PR+15			PR+10
350		PR+25	PR+20		PR+15		
375		PR+25	PR+20		PR+15		
450			PR+25	PR+20			PR+15
475			PR+25		PR+20		PR+15
500				PR+25	PR+20		
525				PR+25	PR+20		
550				PR+25		PR+20	
575				PR+25		PR+20	
600					PR+25	PR+20	
625					PR+25		PR+20
650					PR+25		PR+20
675						PR+25	
700						PR+25	
725						PR+25	
750							PR+25