

hydraulic linear drives



POWERFUL, EFFICIENT DRIVES FOR SAILBOATS

RELIABLE - Only three moving parts, increasing reliability

EFFICIENT - Three times more efficient, half the battery consumption

TIME SAVING - Rudder feedback option mounts directly on drive

ADJUSTABLE FLOW RATE - Configure performance to suit your vessel



LAM MOUNTED STYLE



LAR REMOTE STYLE

half the consumption
twice the range!

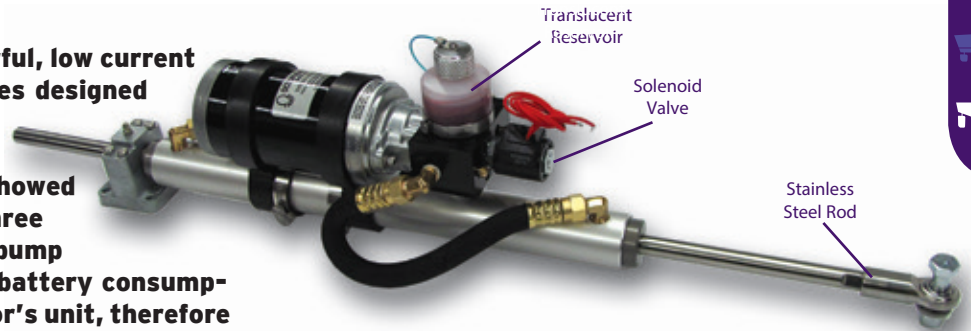




SUITABLE FOR BOATS UP TO 100FT (30.5M) - 64,000LBS (29,000KG)

PATENTLY BETTER

Octopus offer a full range of powerful, low current consumption hydraulic linear drives designed for long passage making. An independent comparison by the University of British Columbia* showed that Octopus piston pumps are three times more efficient than a gear pump and can be expected to halve the battery consumption when compared to a competitor's unit, therefore doubling the effective range of the autopilot on one battery charge.



The drives are available either with the pump mounted on the cylinder or mounted separately.

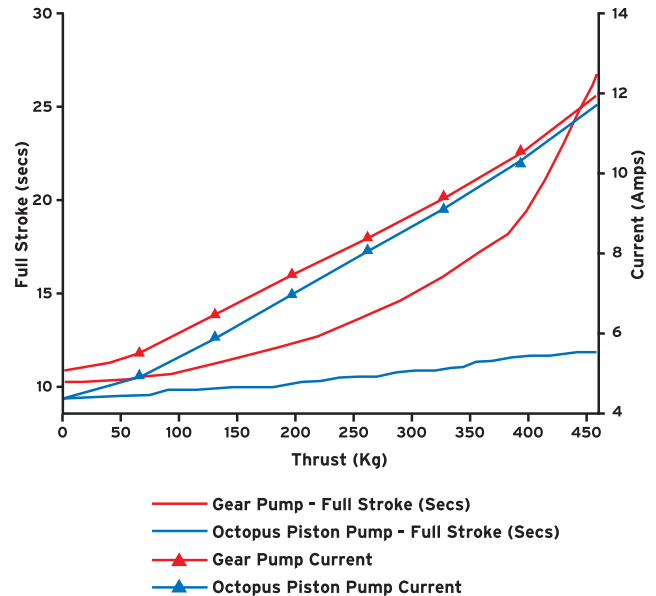
* To see the full report visit www.octopusdrive.com

ADJUSTABLE FLOW RATE

A linear drive that does not have variable flow (unless dedicated to a range of yachts) will be operating either too quickly or too slowly in 90% of cases. Autopilot manufacturers get around this problem by adjusting the output to the pump to compensate. However, this either forces the pump to operate for longer periods of time which increases power consumption and wear on the parts, or the pump will operate at high pressure for short periods of time - also putting unnecessary strain and wear on the system.

Octopus variable flow reversing pumps precisely control the speed of the ram, reducing battery consumption, pressure, strain and wear on the hydraulic system.

Performance Curve of Octopus Pump vs Competitor's Gear Pump at 12v
Test Unit: 1012LAM7 (1.0litre pump with 168cc cylinder)



DRIVES	AVERAGE / MAX CURRENT (Piston pump efficiency will reduce actual consumption)	FEATURES				PERFORMANCE			YACHT SELECTION	
		Volts	Cylinder Bore	Variable Flow Rate	Stroke	Hardover Time (Suggested)	Max Rudder Torque	Peak Thrust	Max Boat Length	Max Laden Displacement
1012LAM7 1012LAR7	4 - 6A / 19A	12V	38MM	500cc - 1 litre/min	178mm 7in	12 - 14 sec	750Nm 6,630lbin	400Kg 882lbs	14m 45ft	11,000Kg 24,200lbs
1024LAM7 1024LAR7	2 - 3A / 10A	24V	38MM	500cc - 1 litre/min	178mm 7in	12 - 14 sec	750Nm 6,630lbin	400Kg 882lbs	14m 45ft	11,000Kg 24,200lbs
1212LAM12 1212LAR12	4 - 6A / 19A	12V	38MM	600cc - 1.2 litre/min	305mm 12in	14 - 16 sec	1,200Nm 10,600lbin	400Kg 882lbs	18m 60ft	15,000Kg 33,000lbs
1224LAM12 1224LAR12	2 - 3A / 10A	24V	38MM	600cc - 1.2 litre/min Reversing	305mm 12in	14 - 16 sec	1,200Nm 10,600lbin	400Kg 882lbs	18m 60ft	15,000Kg 33,000lbs
2012LAR9	6 - 8 / 22A	12V	45MM	1 - 2 litres/min Reversing	228.6mm 9in	14 - 16 sec	1,200Nm 10,600lbin	600Kg 1,322lbs	22m 70ft	17,000Kg 37,500lbs
2024LAR9	3 - 4A / 11A	24V	45MM	1 - 2 litres/min Reversing	228.6mm 9in	14 - 16 sec	1,200Nm 10,600lbin	600Kg 1,322lbs	22m 70ft	17,000Kg 37,500lbs
2012LAR12	6 - 8 / 22A	12V	45MM	1 - 2 litres/min Reversing	305mm 12in	14 - 16 sec	1,500Nm 13,200lbin	600Kg 1,322lbs	24.5m 80ft	20,000Kg 44,000lbs
2024LAR12	3 - 4A / 11A	24V	45MM	1 - 2 litres/min Reversing	305mm 12in	14 - 16 sec	1,500Nm 13,200lbin	600Kg 1,322lbs	24.5m 80ft	20,000Kg 44,500lbs