



Hydraulic Servo Actuators

From the rod assembly to the seals, Oneiric Systems, Inc. designs hydraulic actuators for a long service life, as well as the rigors of product testing. The PTFE seals used in our actuators allow up to 5 m/s rod velocity. Oneiric actuators include an LVDT to provide actuator position information for product testing and closed loop feedback control. The interface manifold offers many options, to provide for various servo or proportional valve port configurations, and connection for close-coupled accumulators. You may order our actuators with or without a control valve. Also optional is a hydraulic cushion for applications where a soft stop at the end of actuator travel is desired. All Oneiric actuators are designed so they can be easily maintained by qualified technicians in the field.

Current Available Sizes:

5,500 lb with 12" stroke

11,000 lb with 12" stroke

25,000 lb with 12" stroke

Static load will be slightly higher than the quoted force at 3,000 PSI supply pressure.

Additional strokes available.

Hydraulic Servo Actuators



Product Specs

Model Numbers	Load Rating (x1000 lbs) @ 3000 PSI supply Note *1	Stroke (in) Note *2	Rod diameters (in)	Bore diameters (in)	Bearing	Manifold	Servo 1 port	Servo 2 port
OSA 105	5.5	4	1.625	2.25	P - Plane	N - no manifold	Blank - no servo (only if no manifold)	Blank - no second servo
OSA 111	11	6	2.75	3.5	H - Hydrastatic	M - Manifold	875 - 0.875 Port Circle	875
OSA 114	14	8		3.625			1750 - 1.75 port circle	1750
OSA 125	25	10		4.5			D05	D05
		12					D07	D07
		14					D08	D08
		20						

Static Load Chart (lbs) Note *2

Dynamic Load Chart (lbs) Note *2

Static Pressure (PSI) 3000					Dynamic Pressure (PSI) 3000				
	Bore					Bore			
Rod	2.5	3.5	3.625	4.5	Rod	2.25	3.5	3.625	4.5
1.625	5706	22642	24740	41491	1.625	4755	18868	20617	34576
2.75	NA	11045	13143	29894	2.75	NA	9204	10953	24912

*1 All Oneiric Actuators are designed to be used at up to 4,000 psi operating pressure.

*2 Stroke length may be limited due to the possibility of buckling. Consult Oneiric Systems, Inc. for additional information.

Oneiric Systems, Inc.® (OSI) is a Michigan based company incorporated in 1992. OSI designs, develops, services, and manufactures custom test and automation equipment for Automotive and Industrial applications.

Call for a Quote 248-554-3090