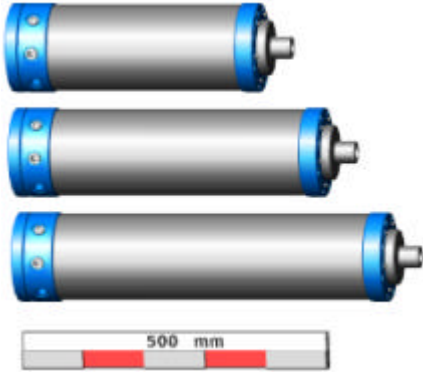


ADVANCED MOTION TECHNOLOGIES Inc

D100 Series ServoRam™



	Model No	D100C/30/10/MkIV	D100C/60/9/MkIV	D100C/90/8/MkIV	D100C/120/7/MkIV	D100C/150/6/MkIV	D100C/180/5/MkIV	D100C/210/4/MkIV	D100C/240/3/MkIV
Description	Rail Voltage								
Stroke Length (mm)	-	30	60	90	120	150	180	210	240
Magnet Sets	-	10	9	8	7	6	5	4	3
Peak Static Thrust (N)	300V	3240	2916	2592	2268	1944	1620	1296	972
	600V	4320	3888	3456	3024	2592	2160	1728	1296
Thrust at Continuous Rated Current	300/600V	540	486	432	378	324	270	216	162
Thrust Co-efficient (N/A)	-	360	324	288	252	216	180	144	108
Damping Coefficient (A/Ms-1)	-	12.41	11.2	9.93	8.69	7.45	6.21	4.97	3.72
Peak Current (A)	300V	9	9	9	9	9	9	9	9
	600V	12	12	12	12	12	12	12	12
Continuous Rated Current (A)	300/600V	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Max Velocity (Ms-1 at zero thrust)	300V	0.4	0.8	1.2	1.6	2.0	2.4	2.6	2.9
	600V	0.5	1.1	1.6	2.2	2.7	3.3	3.4	3.5
Efficiency (N/W)		1.034	0.93	0.83	0.72	0.621	0.52	0.41	0.31
Phase Resistance (Ohms)	-	45	45	45	45	45	45	45	45
Approximate Closed Length (mm)	-	500	500	500	500	500	500	500	500
External Diameter (mm)	-	140	140	140	140	140	140	140	140
Approximate Mass (Kgs)	-	39.4	37.8	36.2	34.6	33	31.4	29.8	28.2

Please note the forces shown above ARE NOT REQUIRED TO SUPPORT A DEAD LOAD. They are therefore fully available to manoeuvre it. The dead load is supported by the self-tuning gas spring, integral to the ram.

Gas Pressure (psi)	20	40	60	80	100	120	140
Load Supported (kg)	110	220	330	440	550	660	770
Load Supported (lbs)	242	484	726	968	1210	1452	1694

It is important to note that a ServoRam™ should not be considered to be a direct replacement for a fluid ram in any machine application. The dynamic forces need to be distinguished from the static forces, so that the electro-magnetic part of the machine handles the precision dynamic actions, whilst the slowly changing and kinetic energy recycling actions are handled by the gas spring.



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