

GRIPPERS & XY STAGES Stroke [mm] 10 - 30 | Peak Force [N]: 3.1 - 45



MGR7
Stroke [mm]: 10
Force [N]: 3.8



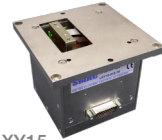
GRP20
Stroke [mm]: 10
Force [N]: 8



GRP35
Stroke [mm]: 30
Force [N]: 25, 26



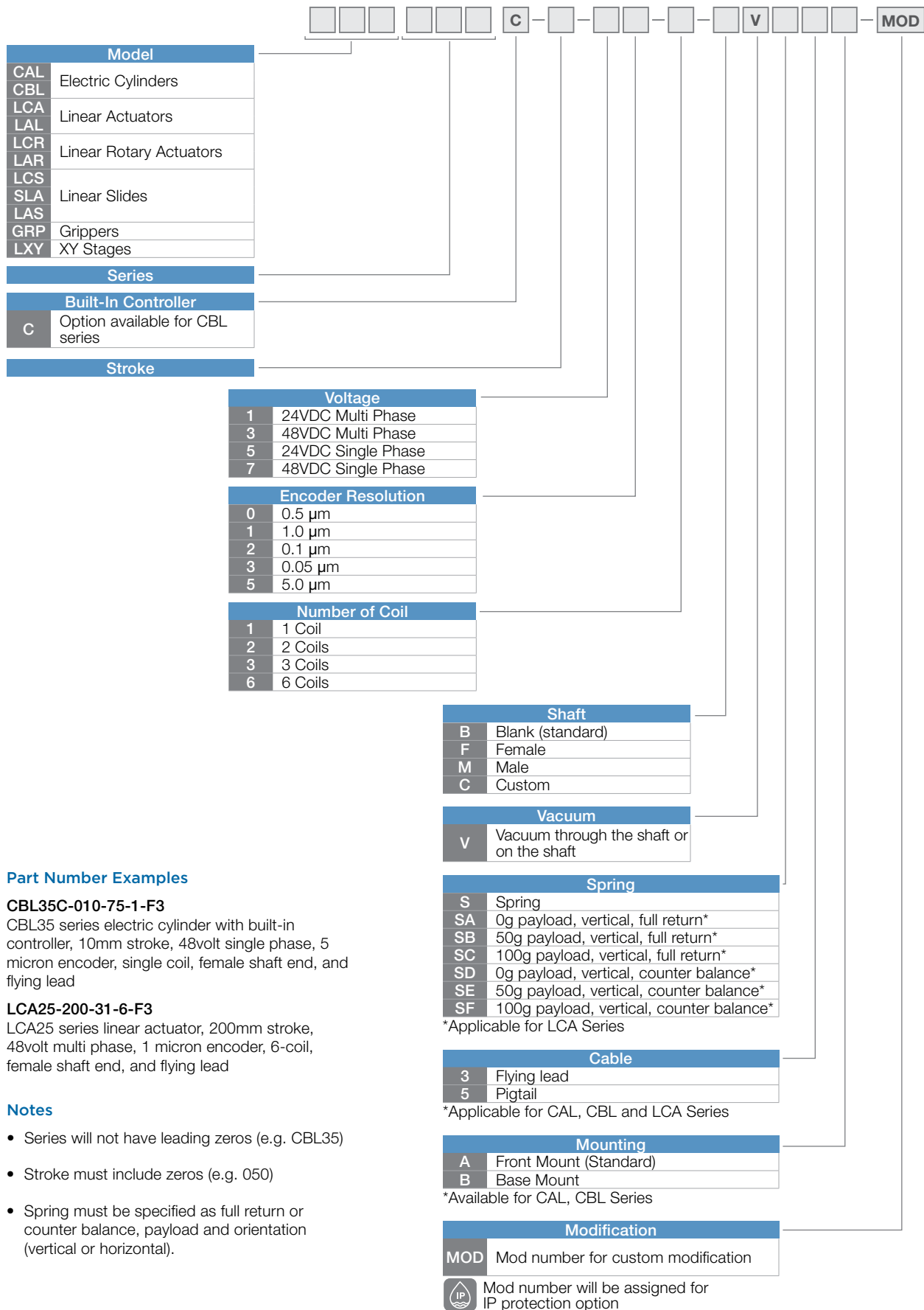
GRP50
Stroke [mm]: 30
Force [N]: 35, 45



LXY15
Stroke [mm]: 15
Force [N]: 22



LXY25
Stroke [mm]: 25
Force [N]: 42



Part Number Examples

CBL35C-010-75-1-F3

CBL35 series electric cylinder with built-in controller, 10mm stroke, 48volt single phase, 5 micron encoder, single coil, female shaft end, and flying lead

LCA25-200-31-6-F3

LCA25 series linear actuator, 200mm stroke, 48volt multi phase, 1 micron encoder, 6-coil, female shaft end, and flying lead

Notes

- Series will not have leading zeros (e.g. CBL35)
- Stroke must include zeros (e.g. 050)
- Spring must be specified as full return or counter balance, payload and orientation (vertical or horizontal).

SMAC Actuators' Unique Features



Soft-Land™

A patented capability to apply controlled light force without damaging parts/materials being handled.



Feedback

Built-in sensing that can report if the desired work was accomplished or not. It can be used for Data Acquisition.



Linear Rotary Motion

The precision Z-theta motion within one small compact actuator, providing convenient pick, orient, and place movements.



IP Protection

Optional IP65 and IP67, dustproof and waterproof features.

The MGR, GRP and LXY have the advantage of independent control of the velocity, acceleration, positioning and force of each axis. This gives you a flexible and accurate tool.



- ✓ Precise force control, measuring and positioning
- ✓ Soft-Land™ capability for sensing product location and dimensions
- ✓ No backlash, no cogging

Part Number	Voltage [DC]	Size: LxWxH [mm]	Stroke per Axis [mm]	Axis 1				Axis 2				Maximum Current [Amp]	Weight [kg]	Maximum Opening
				Peak Force [N]	Continuous Force [N]	Force Constant [N/A]	Moving Mass [kg]	Peak Force [N]	Continuous Force [N]	Force Constant [N/A]	Moving Mass [kg]			
MGR7-010-51-1	24	55x47.5x24	5	3.8	(*)	10.9	0.009	3.8	(*)	10.9	0.009	0.35	0.17	10
GRP20-010-51-1	24	80x90x23	5	8	3.2	5.5	0.065	8	3.2	5.5	0.065	1.8	0.5	10
GRP35-030-55-1	24	93x110x38	15	25	10	17	0.1	25	10	17	0.1	1.5	1.5	30
GRP35-030-75-1	48	93x110x38	15	26	10	13	0.1	26	10	13	0.1	1.9	1.5	30
GRP50-030-55-1	24	90x125x55	15	35	14	23	0.15	35	14	23	0.15	1.5	2.1	30
GRP50-030-75-1	48	90x125x55	15	45	18	23.6	0.15	45	18	23.6	0.15	1.9	2.1	30
LXY15-015-75-1	48	111x112x86	15	22	11	13	0.13	25	12	12	0.22	2.2	1.65	N/A
LXY25-025-75-2	48	125x125x65	25	42	17	14	0.19	42	17	14	1.5	3	3.2	N/A

NOTE: For any SMAC Moving Coil Actuators, the maximum recommended continuous duty current is 600mA supplied to the actuator over a 1 second period. For anything beyond this in terms of current draw or time please consult the factory. We manufacture actuators to suit our customers' requirements. Please call us if you do not find the right actuator in this list. (*)Consult factory



MGR7



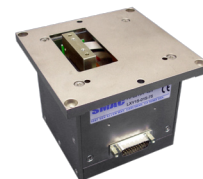
GRP20



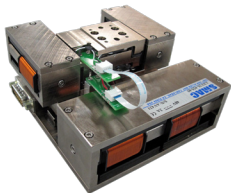
GRP35



GRP50



LXY15



LXY25

Options & Modifications (Consult factory for availability)

- Linear encoder resolutions ----- 5µm standard, 1µm and 0.1µm optional for most units. Consult factory for availability.
MGR7: 1µm standard.
GRP20: 1µm standard and 0.1µm optional.
GRP35 and GRP50: 5µm standard, 1µm and 0.1µm optional.
- Increase of force & acceleration ----- 48 volt coil and double coil options are available for some units with 24 volt single coil.
- Increase of force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.