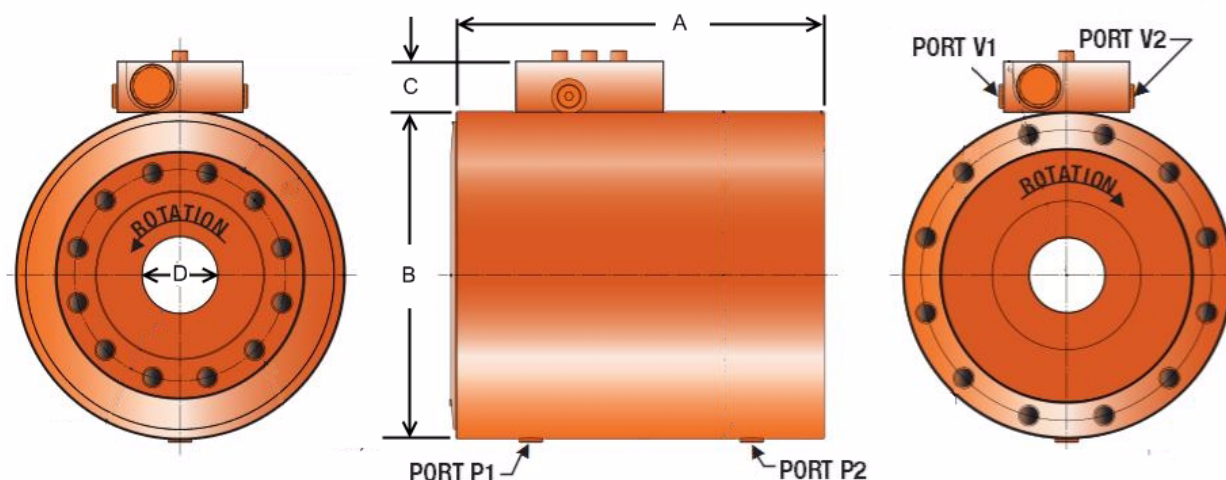


## L10 Series - Flange Mounted Models 180° and 360° Rotations



The L10 Series is Helac's smallest and most compact helical hydraulic actuator. Ideal for applications where space is of premium importance, the ultra-compact L10 series features extremely high thrust capacity in a sleek cylindrical design with flanged mounting and flanged output.

Helac's helical hydraulic sliding spline technology is not self-locking and provides high shock resistance and high holding torque for demanding applications.

Functioning as a rotating device, mounting bracket and load bearing structure, the L10 Series eliminates the need for external bearing systems, brakes or locking devices.

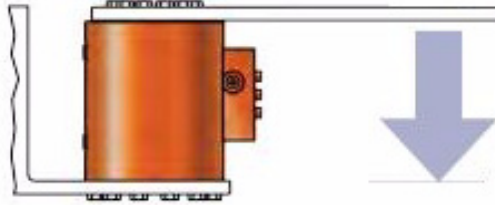
Five standard sizes with torque outputs up to 25,000 in/lbs at 3000 psi (2825 Nm at 210 bar) are available.

**NB:** Custom rotation limits available on request

Description	Units	Size					
		1.7	3.0	5.5	9.5	15	25
<b>Drive Torque @ 210 bar</b>	in/lbs	1700	3000	5500	9500	15000	25000
	Nm	190	340	620	1075	1695	2825
<b>Holding Torque</b>	in/lbs	5600	11000	17000	34000	50000	83000
	Nm	630	1200	1900	3800	5700	9400
<b>Max. Moment Cap. Cantilever or Straddle</b>	in/lbs	5000	9000	20000	50000	80000	100000
	Nm	565	1020	2260	5650	9040	11300
<b>Max. Radial Force</b>	kg	907	1360	1850	3630	4990	6800
<b>Max. Axial thrust</b>	kg	907	1360	1850	3630	4990	6800
<b>Displacement 360°</b>	cc/rev	128	243	384	733	1104	1836
<b>Approx. Weight 180°</b>	kg	6	10	14	26	43	57
<b>Approx. Weight 360°</b>	kg	-	13	19	35	54	83
<b>Dim. A 180°</b>	mm	138	142	154	183	223	240
<b>Dim. A 360°</b>	mm	-	188	211	257	310	345
<b>Dim. B</b>	mm	100	119	135	170	197	225
<b>Dim. C</b>	mm	30	30	30	30	30	30
<b>Dim. D</b>	mm	14	17	21	36	46	67

# L10 Series - Flange Mounted Models

## 180° and 360° Rotations



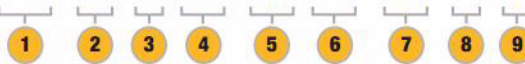
### Cantilever Mount

The load is bolt mounted to the shaft flange and is supported at only one end of the shaft. Cantilever mounting is never recommended for aerial work platforms or other critical and safety related applications.

Part No. 180° models	Torque in/lbs 210 bar	Degrees Rotation
L10-1.7-M-RF-180-S1OH	1700	180
L10-3.0-M-RF-180-S1OH	3000	180
L10-5.5-M-RF-180-S1OH	5500	180
L10-9.5-M-RF-185-S1OH	9500	185
L10-15-M-RF-180-S1OH	15000	180
L10-25-M-RF-180-S1OH	25000	180
360° models		
L10-3.0-M-RF-360-S1OH	3000	360
L10-5.5-M-RF-360-S1OH	5500	360
L10-9.5-M-RF-360-S1OH	9500	360
L10-15-M-RF-360-S1OH	15000	360
L10-25-M-RF-360-S1OH	25000	360

### Typical Model Code

**L10 - 3.0 - E - RF - 180/120 - S1 - C - H**



- |   |   |
|---|---|
| <p><b>1</b> L10 Actuator Series</p> <p><b>2</b> Torque Output (in-lbs x 1000)<br/>1.7* 3.0 5.5 9.5** 15 25</p> <p><b>3</b> Measurement System<br/>E English System<br/>M Metric System<br/>S Special Custom Design</p> <p><b>4</b> Housing Configuration<br/>RF Rear Flange</p> <p><b>5</b> Standard Rotation<br/>180 180 Degrees<br/>360 360 Degrees</p> | <p><b>6</b> Special Rotations<br/>(Standard design with internal stop tube to limit rotation - indicates final rotation)</p> <p><b>7</b> Shaft Configuration<br/>S1 Cantilever Mounted Shaft Option</p> <p><b>8</b> Valve Options<br/>C With Counterbalance Valve<br/>O Without Counterbalance Valve</p> <p><b>9</b> Seals<br/>H Standard Seals &amp; Bearings<br/>S Special Seals &amp; Bearings</p> |
|---|---|

\* L10-1.7 available in 180° rotation special order only. Contact Helac Corporation for more information.

\*\* L10-9.5 available in 185° or 360° rotations only.