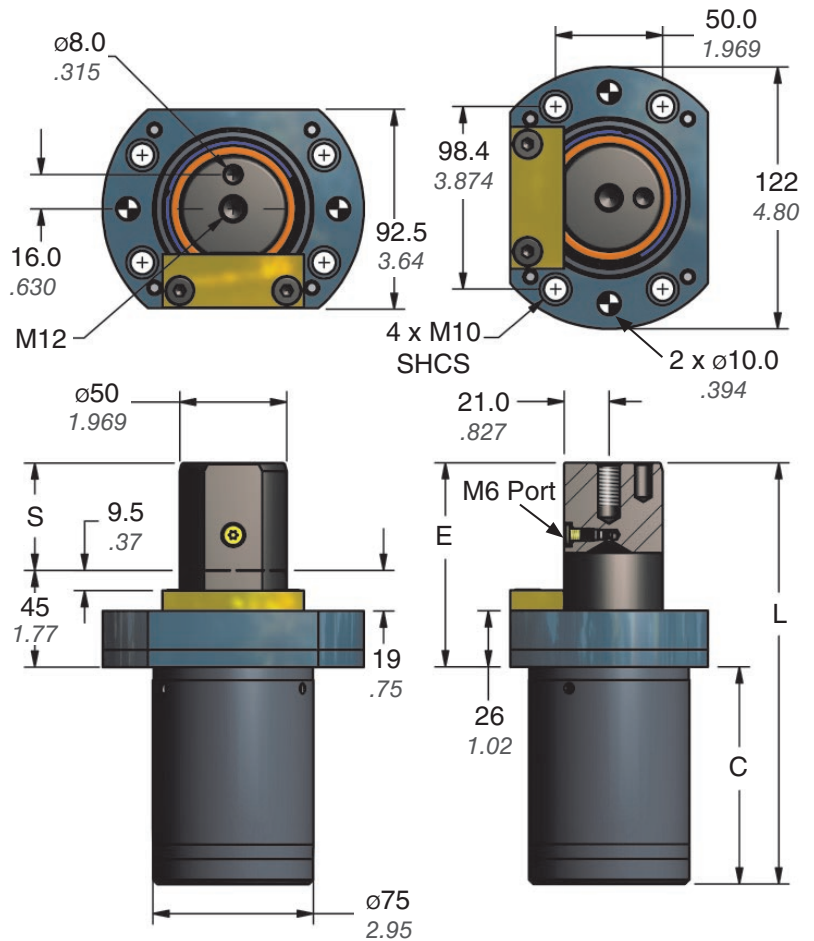
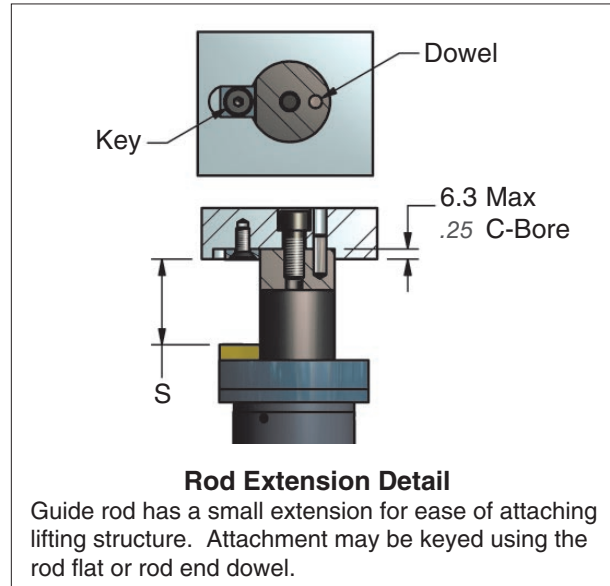


Non-Rotating Nitrogen Gas Lifter

SLN.300 – 3 kN / 1/3 ton

Decrease die construction costs with DADCO's Non-Rotating Nitrogen Gas Lifter

- Non-rotating construction eliminates need for additional guidance components
- Extended Guide Rod bushings provide increased stability
- Inverted gas spring is housed inside the keyed Guide Rod to provide reliable and adjustable lifting force



Part No.	S mm inch	C	E	L
SLN.300.050	50 1.97	101 3.98	95 3.740	196 7.717
SLN.300.080	80 3.15	131 5.16	125 4.921	256 10.079
SLN.300.100	100 3.94	151 5.94	145 5.709	296 11.654
SLN.300.125	125 4.92	176 6.93	170 6.693	346 13.622
SLN.300.150	150 5.91	201 7.91	195 7.677	396 15.591

Ordering Example:

SLN.300.050. B33. 150

Part Number: _____
Includes Series, Model and Stroke Length

Mount Option: _____
B33 = Keyed Narrow Flange Mount

Charging Pressure:
Specify Pressure: 15 – 150 bar
(250 – 2175 psi). When not specified, default is 150 bar.

SLN.300 – 3 kN / 1/3 ton

Operating Specifications

Charging Medium:	Nitrogen Gas
Charging Pressure Range:	15 – 150 bar (250 psi – 2175 psi)
Operating Temperature:	-6°C – 71°C (20°F – 160°F)
Maximum Speed:	800 mm/sec (31 in/sec)
Angular Accuracy*:	90° ± 1° from the narrow axis of the mount

DO NOT EXCEED 90% OF STROKE

*Accuracy is dependent upon the key being properly installed with a .13 mm (.005") shim.

On-Contact Force

Metric		Imperial	
bar charging pressure	daN actuating force	psi charging pressure	lb. actuating force
150	296	2175	667
125	247	2000	613
100	197	1750	537
75	148	1500	460
50	99	1000	307
25	49	500	153
15	30	250	77

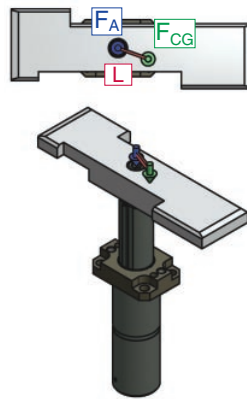
Loading Capacity for Maximum Reliability

F_A = Compression force to depress the lifter on the lifter centerline.

F_{CG} = Force at the center of gravity of the attachment.

L = Distance from **F_A** to **F_{CG}**.

To maximize the reliability of a stand-alone lifter, actuate as close to **F_A** as possible. Good design practice should minimize **L** and locate **F_{CG}** on the centerline of the lifter. Increased wear on the bearing will occur if **L** exceeds 30 mm (1.2") or if **F_A** is offset from the centerline. If a large offset is required, reduce the attachment load or add a second lifter.



Maximum Attachment Capacity Per Lifter*

Metric		Imperial		
Ram Velocity mm/s	Attachment Mass kg	Ram Velocity fpm	Attachment Mass in/s	Attachment Mass lb-mass
300	31	59	12	68
400	17	79	16	38
500	11	98	20	24
700	5.6	138	28	12
800	4.3	157	31	10

*Attachment mass assumes balanced load and actuation force. For increased capacity, install external positive stops to prevent lifter damage.

Application Example



The SLN.300 saves design, build and installation cost by providing an all-in-one approach to guided lift applications. DADCO's SLN.300 Non-Rotating Nitrogen Gas Stock Lifters are well suited for progressive stamping tools. The lifters may be used in dies to support the material and facilitate continuous feed. The application illustrated above depicts eighteen SLN.300's as support lifters in a progressive stamping tool.