



DADCO® Nitrogen Gas Lifter Selection

Micro Nitrogen Gas Spring Lifters – SL Series		Can Diameter (mm / inch)		Stroke Lengths S (mm)	Overall Length (mm)	Max Force on Contact (daN / lb.)		Max Charging Pressure (bar / psi)		Port Size
	Model									
	E.16	12	.472	15-80	74-207	42	95	150	2175	M6
	E.24	21.5	.846	20-80	100-220	170	381	150	2175	M6
	SL.16	14	.55	10-100	2 x Stroke + 60	51	114	180	2611	M6
	SLN.090	38	1.496	25-125	112-330	89	200	177	2560	–
	SLN.180*	50	1.968	25-125	145-369	200	450	177	2560	–
	SLN.300	75	2.953	50-150	2 x Stroke + 96	302	678	150	2175	M6
	SLC.500	50	1.96	50-200	2 x Stroke + 122.5	220	487	70	1000	G 1/8
	SLC.800	75	2.95	50-200	2 x Stroke + 204	712	1578	70	1000	G 1/8
<ul style="list-style-type: none"> • Non-rotating and internal cushion options • Built-in guidance • Force provided by Micro and Mini Series gas springs • Single, multi-point or rail lift applications • Ideal for progressive stamping dies, rail lifters and work holding applications 	Model	Rail Width		Stroke Lengths	Overall Length	Max Force on Contact		Max Charging Pressure		Port Size
	SL2.090	160	6.30	23-198	105-466	89	200	177	2560	M6
	SL2.180	180	7.09	23-198	105-466	200	450	177	2560	M6
	SL2.300	180	7.09	23-198	105-466	302	678	150	2175	M6

Refer to DADCO product catalogs for exact dimensions and complete list of stroke lengths.
*Available in Flange Model (FA / FB) for stripper applications.

DADCO® Air Cylinder Selection

ISO Air Cylinders – HP Series		Bore Size (mm)	Stroke Lengths S (mm)	Cylinder Body Length (mm)	PUSH Force* 6 bar / 80 psi (kN / lb.)		Max Charging Pressure (bar / psi)		Port Style
	Model								
	HP.Z / HP.W	32-250	25-500	varies by bore size (see catalog)	.483-29.45	100-6087	10	140	NPT/BSPP
	HP.N	32-100	25-500	varies by bore size (see catalog)	.483-4.71	100-974	10	140	NPT/BSPP
	HP.TDL2C	40-100	25-400	varies by bore size (see catalog)	.754-4.71	156-974	10	140	NPT/BSPP
<ul style="list-style-type: none"> • Standard male (HP.Z), optional female (HP.W) and non-rotating (HP.N) rod ends • Two post lifters (TDL2C / TDL4) • Adjustable cushioning • Meets or exceeds most NAAMS, ISO and VDMA standards 	HP.TDL4	40	25-250	Stroke + 171	.754	156	10	140	NPT/BSPP
	HP.STB	50	125-200	Stroke + 161	1.080	243	10	140	NPT/BSPP

Refer to DADCO product catalogs for exact dimensions and complete list of stroke lengths.
*Reference HP Series product catalog for PULL Force.

DADCO® Guide Retainer Sets Selection



Guide Retainer Sets – GRS/GRS HD Series		Rod Diameter (mm / inch)		Retainer Diameter (mm / inch)	Pin Extension (mm)	Overall Length (mm)	Rod Attachment SHCS (Metric / Imperial)		Fastener Quantity	
	Model									
	GRS.25	25	.984	38	1.496	20-150	Stroke + 50	M12	1/2"-13	1
	GRS.30*	30	1.181	43	1.693	20-150	Stroke + 50	M8	5/16"-18	4
	GRS.36*	36	1.417	50	1.968	20-150	Stroke + 65	M10	3/8"-16	4
	GRS.50	50	1.968	68	2.677	20-150	Stroke + 80	M12	1/2"-13	4
<ul style="list-style-type: none"> • Robust design with combined guidance and retention • Four rod diameters: 25 mm, 30 mm, 36 mm and 50 mm • Various stroke lengths to suit application requirements • Replaces common pins, bushings and spools 	GRS.36.HD	36	1.417	50	1.969	45-145	Stroke + 100	4 x M10	-	4
	GRS.50.HD	50	1.967	70	2.756	55-155	190-280	3 x M16	-	3
	GRS.65.HD	65	2.557	90	3.543	55-155	225-315	4 x M16	-	4

Chart shows Flange and Wide Toe Clamp models.
*GRS.30 and GRS.36 are available with Alternative Toe Clamps, see product catalog for more information.

DADCO® Additional Products

Nitrogen Gas Spring Linked System Components




- Everything you need to construct a Linked System
- Seven different hose options
- Fittings to support a variety of configurations
- Control Panels, Pressure Monitors and Charging Accessories

Sectional Mounting Systems – SMS® and SMS-i®



- Unlimited design configurations
- Uniform pressure in a system
- Simplified maintenance; easy installation and removal
- Alternatives to traditional manifold systems

Power Cam and Power Pump System



- Guided Hydraulic die cam with nitrogen return
- Power Cam may be installed and operated in any orientation
- 15 kN and 40 kN force models available
- Ideal for secondary operations such as punching, piercing, forming or flanging