

DADCO Nitrogen Gas Spring Selection

Micro – C Series



- Pre-set and adjustable force models
- Color-coded for easy identification
- Threaded body styles available
- Operate self-contained or linked using MINILink® System
- Application Examples: Part Ejectors, Strippers, Lifting, Cams, High Speed and Part Pushers

Ultra Force® – U Series



- High Force and Compact Height
- Application Examples: Part Ejectors, Strippers, Lifting, Cams, Part Pushers, Work Holding, Forming, Draw Dies, Balancing and Stripper Pad Force

Mini – LJ / L Series



- Operate self-contained or linked using MINILink® System
- Variety of bolt-on mounts available
- L Series backed by DADCO's Two Year/Two Million Stroke **Select Guarantee**
- Application Examples: Deep Draw, Cam Slides, Part Strippers and Work Holding

Ultra Force Extended® – UX Series



- High Force
- Matches ISO Standard Diameter and Height
- Application Examples: Blanking, Deep Drawing, Work Holding, Forming, Draw Dies, Balancing, Stripping, High Strength Steel and High Speed Applications

Super Compact - SC Series



- High Force, Compact Height
- Bore seal design
- Optional side port with addition of sub plates
- Application Examples: Absorbing Breakthrough, Draw Dies, Blanking, Flanging, Forming, Part Stripping, Work Holding, Balancing, Stripper Pad Force and Large Cams

ISO / 90.10 Series





- Match ISO Standards
- Welded or bolt-on mounts available
- Application Examples: Blanking, Deep Drawing, Forming, Part Stripping, Work Holding, Balancing, Stripper Pad Force, Strike Plate Return and High Speed Applications

Model	Can Diameter (mm / inch)		Stroke Lengths S (mm)		Overall Length (mm)		Max Force on Contact (daN / lb.)		Max Charging Pressure (bar / psi)		Port Size
C.045	12	.472	7-50	63.5-80	(2 x S) + 42	(2 x S) + 45	50	112	177	2560	M6
C.070	15	.591	7-50	63.5-125	(2 x S) + 42	(2 x S) + 45	68	154	177	2560	M6
C.090	19	.748	7-50	63.5-125	(2 x S) + 42	(2 x S) + 45	89	200	177	2560	M6
U.0175	19	.748	7-63.5	75-125	(2 x S) + 30	(2 x S) + 35	171	383	180	2600	M6
C.180	25	.984	7-50	63.5-125	(2 x S) + 42	(2 x S) + 45	200	450	177	2560	M6
U.0325	25	.984	7-63.5	75-125	(2 x S) + 30	(2 x S) + 35	320	715	180	2600	M6
SC.00420	25	.984	10, 16, 25		70, 91, 120		425	956	150	2175	M6
C.250	32	1.260	7-50	63.5-125	(2 x S) + 42	(2 x S) + 45	313	701	177	2560	M6
U.0400	32	1.260	10-125		2 x Stroke + 30		362	810	180	2600	M6
UH.0400	32	1.260	10-125		2 x Stroke + 40		362	810	180	2600	G 1/8
SCR.0500	32	1.260	10-80		2 x Stroke + 55		458	1026	180	2600	M6
SC.00740	32	1.260	6-50		63-195		736	1655	150	2175	M6
LJ.300	38	1.496	12.5-125		2 x Stroke + 30		302	678	150	2175	M6
L.300	38	1.496	6.3-125		2 x Stroke + 50.5		302	678	150	2175	M6
U.0600	38	1.496	10-125		2 x Stroke + 30		471	1059	150	2175	M6
UH.0600	38	1.496	10-125		2 x Stroke + 40		471	1059	150	2175	G 1/8
SCR.0800	38	1.496	10-80		2 x Stroke + 55		884	1978	180	2600	M6
SC.01000	38	1.496	6-50		61-230		1060	2383	150	2175	M6
LJ.500	44.5	1.750	12.5-125		2 x Stroke + 32		471	1059	150	2175	M6
L.500	44.5	1.750	6.3-125		2 x Stroke + 50.5		471	1059	150	2175	M6
90.10.00500	44.5	1.750	12.5-160		2 x Stroke + 85		471	1059	150	2175	G 1/8
U.0800	44.5	1.750	10-125		2 x Stroke + 32		736	1655	150	2175	M6
UH.0800	44.5	1.750	12.5-125		2 x Stroke + 47		736	1655	150	2175	G 1/8
LJ.750	50	1.968	12.5-125		2 x Stroke + 38		736	1655	150	2175	M6
L.750	50	1.968	6.3-125		2 x Stroke + 50.5		736	1655	150	2175	M6
90.8.00750	50	1.968	12.5-250		2 x Stroke + 70		736	1655	150	2175	G 1/8
90.10.00750	50	1.968	12.5-300		2 x Stroke + 95		736	1655	150	2175	G 1/8
UX.1000	50	1.968	25-200		2 x Stroke + 93		924	2076	150	2175	G 1/8
U.1000	50	1.968	12.5-125		2 x Stroke + 38		924	2076	150	2175	M6
UH.1000	50	1.968	12.5-125		2 x Stroke + 52		924	2076	150	2175	G 1/8
U.1200	50	1.968	10-125		2 x Stroke + 38		1060	2383	150	2175	M6
SCR.1900	50	1.968	10-80		2 x Stroke + 80		1732	3877	180	2600	M6
SC.01800	50	1.968	6-50		66-220		1885	4236	150	2175	G 1/8
UX.1600	63	2.480	10-200		2 x Stroke + 95		1527	3432	150	2175	G 1/8
U.1600	63	2.480	10-125		2 x Stroke + 44		1527	3432	150	2175	M6
UH.1600	63	2.480	12.5-125		2 x Stroke + 52		1527	3432	150	2175	G 1/8
SCR.3200	63	2.480	16-80		2 x Stroke + 80		2863	6409	180	2600	M6
SC.03500	63	2.480	10-50		85-205		3185	7160	150	2175	G 1/8
90.9.01500	75	2.953	25-125		2 x Stroke + 48		1527	3432	150	2175	M6
90.8.01500	75	2.953	12.5-250		2 x Stroke + 85		1527	3432	150	2175	G 1/8
90.10.01500	75	2.953	12.5-300		2 x Stroke + 110		1527	3432	150	2175	G 1/8
UX.2600	75	2.953	25-200		2 x Stroke + 108		2386	5362	150	2175	G 1/8
U.2600	75	2.953	16-125		2 x Stroke + 45		2386	5362	150	2175	M6
UH.2600	75	2.953	16-125		2 x Stroke + 59		2386	5362	150	2175	G 1/8
SC.04700	75	2.953	10-50		80-240		4676	10509	150	2175	G 1/8
90.9.03000	95	3.740	25-125		2 x Stroke + 58		2945	6619	150	2175	G 1/8
90.8.03000	95	3.740	12.5-250		2 x Stroke + 95		2945	6619	150	2175	G 1/8
90.10.03000	95	3.740	12.5-300		2 x Stroke + 120		2945	6619	150	2175	G 1/8
90.10RX.03000	95	3.740	25-300		2 x Stroke + 120		2945	6619	150	2175	G 1/8
UX.4600	95	3.740	25-200		2 x Stroke + 120		4241	9532	150	2175	G 1/8
U.4600	95	3.740	16-125		2 x Stroke + 58		4241	9532	150	2175	G 1/8
UH.4600	95	3.740	16-125		2 x Stroke + 62		4241	9532	150	2175	G 1/8
SC.07500	95	3.740	10-50		90-255		7540	16946	150	2175	G 1/8
90.9.05000	120	4.724	25-125		2 x Stroke + 68		4977	11187	150	2175	G 1/8
90.8.05000	120	4.724	25-250		2 x Stroke + 102.5		4977	11187	150	2175	G 1/8
90.10.05000	120	4.724	25-300		2 x Stroke + 140		4977	11187	150	2175	G 1/8
90.10RX.05000	120	4.724	25-300		2 x Stroke + 140		4977	11187	150	2175	G 1/8
UX.6600	120	4.724	25-200		2 x Stroke + 140		6627	14894	150	2175	G 1/8
U.6600	120	4.724	16-125		2 x Stroke + 68		6627	14894	150	2175	G 1/8
UH.6600	120	4.724	16-125		2 x Stroke + 72		6627	14894	150	2175	G 1/8
SC.11800	120	4.724	10-50		100-260		11781	26478	150	2175	G 1/8
90.9.07500	150	5.906	25-125		2 x Stroke + 78		7540	16946	150	2175	G 1/8
90.8.07500	150	5.906	25-250		2 x Stroke + 105		7540	16946	150	2175	G 1/8
90.10.07500	150	5.906	25-300		2 x Stroke + 155		7540	16946	150	2175	G 1/8
90.10RX.07500	150	5.906	25-300		2 x Stroke + 155		7540	16946	150	2175	G 1/8
UX.9600	150	5.906	25-200		2 x Stroke + 155		9543	21447	150	2175	G 1/8
U.9600	150	5.906	25-125		2 x Stroke + 78		9543	21447	150	2175	G 1/8
SC.18300	150	5.906	10-50		110-270		18408	41372	150	2175	G 1/8
90.10.10000	195	7.677	50-250		2 x Stroke + 160		10632	23896	150	2175	G 1/8
90.10RX.10000	195	7.677	50-250		2 x Stroke + 160		10632	23896	150	2175	G 1/8
UX.20000	195	7.677	25-200		2 x Stroke + 160		19910	44747	150	2175	G 1/8
U.20000	195	7.677	25-125		2 x Stroke + 110		19910	44747	150	2175	G 1/8



Refer to DADCO product catalogs for exact dimensions and complete list of stroke lengths. Refer to DADCO Force Chart bulletin B10125 for precise Metric and Imperial force information by cylinder model. Refer to the Gas Spring Installation & Operation bulletin B05139C for proper handling of DADCO Nitrogen Gas Springs.

Visit our website at www.dadco.net for a comprehensive list of DADCO's product line and support.


DADCO® Nitrogen Gas Lifter Selection

Micro Nitrogen Gas Lifters - SLN.090 and SLN.180	Model	Can Diameter (mm / inch)		Stroke Lengths S (mm)	Overall Length (mm)	Max Force on Contact (daN / lb.)		Max Charging Pressure (bar / psi)		Port Size
		SL.16	14	.55	10-100	2 x Stroke + 60	50.9	114	180	2611
	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	296	667	150	2175	M6
	SLC.500	50	1.96	50-200	2 x Stroke + 122.5	471	1058	150	2175	G 1/8
	SLC.800	75	2.95	50-200	2 x Stroke + 204	712	1580	70	1000	G 1/8
Non-Rotating Nitrogen Gas Lifter - SLN.300	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.

Nitrogen Gas Spring Rail Lifters - SLC.500 and SLC.800	Nitrogen Gas Spring Two Post Lifters - SL2.090, SL2.180 and SL2.300
	
<ul style="list-style-type: none"> Internal Cushion Operates Linked for Uniform Lifting Force Use for Progressive Die Lifter Rail, Work Holding and Balancing Applications 	<ul style="list-style-type: none"> Two Post with Narrow Profile Adjustable Force provided by Micro Series Gas Springs May pipe with MINLink® System Use for Progressive Die Lifter Rail, Work Holding and Balancing Applications


DADCO® Air Cylinder Selection

Air Cylinder Lifters - HP.TDL2C and HP.TDL4	Model	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
	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 bulletin)	.754-4.71	156-974	10	140	NPT/BSPP
	HP.TDL4	40	25-250	Stroke + 171	.754	156	10	140	NPT/BSPP
	HP.S	50	50-200	Stroke + 161	1.18	243	10	140	BSPP

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

Non-Rotating Air Cylinders with Oversized Rod - HP.S	Air Cylinders - HP.Z and HP.W	Non-Rotating Air Cylinders - HP.N
		
<ul style="list-style-type: none"> Oversized, Non-Rotating Rod Adjustable Cushioning Double Acting Ports on Both Ends Optional Rectangular Mount Use for Progressive Die Lifter Rail, Work Holding and Balancing Applications 	<ul style="list-style-type: none"> Meets or Exceeds Most NAAMS, ISO and VDMA Standards Standard Male (HP.Z) and Optional Female (HP.W) Rod Ends Non-Rotating Option (HP.N) Adjustable Cushioning Multiple Port and Sensing Capability Variety of Bolt-On Mounts 	

DADCO® Hydraulic Core Pin Selection

Hydraulic Core Pins - DK Series	Model	Bore Size (mm)	Stroke Lengths S (mm)	Cylinder Body Length (mm)		PULL Force* 220 bar / 3000 psi (daN / lb.)		Max Charging Pressure (bar / psi)		Operating Temperature
	DK.40	40	13, 25, 50, 80, 100	125	Stroke + 100	2300	4850	220	3000	Working: -29°C - 204°C (-20°F - 400°F) Maximum: 260°C (500°F) short durations
	DKN.40	40	13, 25	125		2300	4850	220	3000	
	DKD.40	40	13, 25, 50, 80, 100	125	Stroke + 100	2300	4850	220	3000	
	DK.55	55	13, 25, 50, 80, 100	125	Stroke + 100	4150	8625	220	3000	Working: -29°C - 204°C (-20°F - 400°F) Maximum: 260°C (500°F) short durations
	DKN.55	55	13, 25	125		4150	8625	220	3000	
	DKD.55	55	13, 25, 50, 80, 100	125	Stroke + 100	4150	8625	220	3000	

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