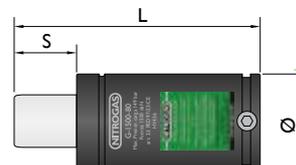
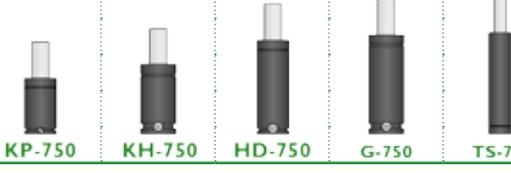
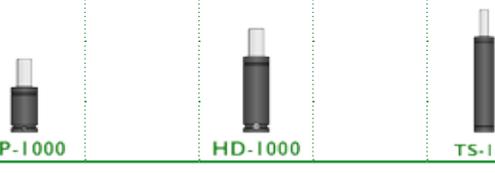


# NITROGAS

## Gas Spring Selection Guide



Gas spring family

Force daN	MICRO	LOW PROFILE HIGH FORCE	KH	HD	STANDARD	COMPACT	Model	max F0	Ø mm	S mm	L mm		Linkable
≤ 100							Z-50	13 - 50	12	7 - 125	2xS + 42	No	No
							Z-70	18 - 70	15	7 - 125	2xS + 42	No	No
								R-100	30 - 90	19	7 - 125	2xS + 42	No
150 - 200							KP-170	170	19	7 - 125	2xS + 30	No	No
							R-200	50 - 200	25	10 - 125	2xS + 42	No	No
							CN-150	150	32	10 - 125	2xS + 50	No	No
250						CN-250	265	38	10 - 125	2xS + 50	No	M6	
320 - 450							KP-320	320	25	7 - 125	2xS + 30	No	No
							KP-350	360	32	10 - 125	2xS + 30	No	M6
							TS-420	420	25	6 - 50	56 - 195	No	No
500							KP-500	470	38	10 - 125	2xS + 30	No	M6
							KH-500	470	45	12.7 - 125	2xS + 50	No	G1/8"
							CN-500	470	45	12.7 - 160	2xS + 85	No	G1/8"
750							KP-750	740	45	10 - 125	2xS + 32	Yes	M6
							KH-750	740	50	12.7 - 125	2xS + 50	Yes	G1/8"
							HD-750	740	45	13 - 200	2xS + 85	Yes	G1/8"
							G-750	740	50	12.7 - 300	2xS + 95	Yes	G1/8"
							TS-750	740	32	6 - 50	63 - 195	No	No
1000							KP-1000	920	50	13 - 125	2xS + 38	Yes	M6
							HD-1000	920	50	25 - 300	2xS + 95	Yes	G1/8"
							TS-1000	920	38	6 - 50	61 - 230	No	No
1500							KP-1500	1500	63	13 - 125	2xS + 44	Yes	M6
							KH-1500	1500	75	25 - 125	2xS + 60	Yes	G1/8"
							HD-1500	1500	63	25 - 300	2xS + 95	Yes	G1/8"
							G-1500	1500	75	25 - 300	2xS + 110	Yes	G1/8"
							TS-1800	1800	50	6 - 65	66 - 271	No	No

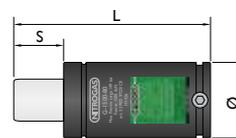
# NITROGAS

Gas spring family

Force	LOW PROFILE HIGH FORCE	KH	HD	STANDARD	COMPACT	Model	max F0	Ø mm	S mm	L mm		Linkable
2500						KP-2400	2400	75	16 - 125	2xS + 45	Yes	M6
						HD-2400	2400	75	25 - 300	2xS + 110	Yes	G1/8"
3000						G-3000	3000	95	25 - 300	2xS + 120	Yes	G1/8"
						TS-3000	3000	63	10 - 65	85 - 256	No	No
4000						KP-4200	4200	95	16 - 125	2xS + 58	Yes	G1/8"
						HD-4200	4200	95	25 - 300	2xS + 120	Yes	G1/8"
5000						G-5000	5000	120	25 - 300	2xS + 140	Yes	G1/8"
						TS-4700	4700	75	10 - 65	80 - 273	No	No
6500						KP-6600	6600	120	16 - 125	2xS + 68	Yes	G1/8"
						HD-6600	6600	120	25 - 300	2xS + 140	Yes	G1/8"
7500						CN-7500	7500	150	25 - 300	2xS + 155	Yes	G1/8"
						TS-7500	7500	95	10 - 65	90 - 279	No	No
10000						KP-9500	9500	150	19 - 125	2xS + 78	Yes	G1/8"
						HD-9500	9500	150	25 - 200	2xS + 155	Yes	G1/8"
						CN-10000	10600	195	25 - 300	2xS + 160	Yes	G1/8"
12000						TS-11800	11800	120	10 - 65	100 - 320	No	No
20000						KP-20000	20000	195	19 - 125	2xS + 110	No	G1/8"
						HD-20000	20000	195	25 - 300	2xS + 160	No	G1/8"
						TS-18300	18300	150	10 - 65	110 - 323	No	No

# NITROGAS

## Gas Spring Overview



### Micro

Gas springs with reduced dimensions and colour coded for easy identification.

R	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
R-100	30-90	19	2xS+42	*	*			*				*			*	*	*	*	*	*	*	*	*	*	*	*	
R-200	50-200	25	2xS+42		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

Z	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
Z-50	13-50	12	2xS+42	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Z-70	18-70	15	2xS+42	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

### ISO

Designed to keep the dimensions established in the ISO 11901-I standard.

CN	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
CN-150	150	32	2xS+50		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
CN-250	265	38	2xS+50		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
CN-500	470	45	2xS+85				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
CN-7500	7500	150	2xS+155							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
CN-10000	10600	195	2xS+160							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

G	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
G-750	740	50	2xS+95				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
G-1500	1500	75	2xS+110							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
G-3000	3000	95	2xS+120							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
G-5000	5000	120	2xS+140							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

### Low profile - High Force

Maximum force with the minimum height.

K	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
K-200	50-200	25	2xS+32	*	*			*				*			*	*	*	*	*	*	*	*	*	*	*		
K-300	100-300	32	2xS+39	*	*			*				*			*	*	*	*	*	*	*	*	*	*	*		
K-570	570	38	2xS+37	*	*			*				*			*	*	*	*	*	*	*	*	*	*	*		
K-750	740	45	2xS+50				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
K-1000	990	50	2xS+50				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
K-1500	1500	63	2xS+60				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
K-2500	2500	75	2xS+60				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
K-4000	4000	95	2xS+70							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		



# NITROGAS

## Standard Dimensions

Designed based on ISO 11901-I standard to provide more force with a similar height.

G	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
G-100	30-90	22	2xS+60				*							*		*	*	*	*	*	*	*					
G-200	50-200	25	2xS+54				*							*		*	*	*	*	*	*	*					
G-300	100-300	32	2xS+60				*							*		*	*	*	*	*	*	*					
G-500	500	45	2xS+60				*							*		*	*	*	*	*	*	*					
G-10000	9500	150	2xS+136											*		*	*	*	*	*	*	*	*	*	*	*	
HD	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
HD-750	740	45	2xS+85					*						*		*	*	*	*	*	*	*	*	*	*	*	
HD-1000	920	50	2xS+95											*		*	*	*	*	*	*	*	*	*	*	*	
HD-1500	1500	63	2xS+95											*		*	*	*	*	*	*	*	*	*	*	*	
HD-2400	2400	75	2xS+110											*		*	*	*	*	*	*	*	*	*	*	*	
HD-4200	4200	95	2xS+120											*		*	*	*	*	*	*	*	*	*	*	*	
HD-6600	6600	120	2xS+140											*		*	*	*	*	*	*	*	*	*	*	*	
HD-9500	9500	150	2xS+155											*		*	*	*	*	*	*	*	*	*	*	*	
HD-20000	20000	195	2xS+160											*		*	*	*	*	*	*	*	*	*	*	*	
HG	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
HG-750	740	50	2xS+70					*						*		*	*	*	*	*	*	*	*	*	*	*	
HG-1500	1500	75	2xS+85											*		*	*	*	*	*	*	*	*	*	*	*	
HG-3000	3000	95	2xS+95											*		*	*	*	*	*	*	*	*	*	*	*	
HG-5000	5000	120	2xS+102.5											*		*	*	*	*	*	*	*	*	*	*	*	
HG-7500	7500	150	2xS+105											*		*	*	*	*	*	*	*	*	*	*	*	
M	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	63	75	80	100	125	160	200	250
M-350	350	32	2xS+50						*					*		*	*	*	*	*	*	*	*	*	*	*	
M-500	500	38	2xS+55				*		*					*		*	*	*	*	*	*	*	*	*	*	*	
M-1000	920	50	2xS+85											*		*	*	*	*	*	*	*	*	*	*	*	
M-1500	1500	63	2xS+85											*		*	*	*	*	*	*	*	*	*	*	*	
M-2500	2500	75	2xS+95											*		*	*	*	*	*	*	*	*	*	*	*	
M-4000	4000	95	2xS+110											*		*	*	*	*	*	*	*	*	*	*	*	
M-6500	6400	120	2xS+115											*		*	*	*	*	*	*	*	*	*	*	*	

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## Compact

Bore sealed gas springs provide extreme forces with minimal body diameters and short strokes.

T	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	65	75	80	100	125	160	200	250
T-420	420	25	56-195	*	*					*			*		*		*		*		*		*		*		*
T-750	740	32	63-195	*	*					*			*		*		*		*		*		*		*		*
T-1000	920	38	61-230	*	*					*			*		*		*		*		*		*		*		*
T-1800	1800	50	66-220	*	*					*			*		*		*		*		*		*		*		*
T-3000	3000	63	85-205			*				*			*		*		*		*		*		*		*		*
T-4700	4700	75	80-240			*				*			*		*		*		*		*		*		*		*
T-7500	7500	95	90-255			*				*			*		*		*		*		*		*		*		*
T-11800	11800	120	100-260			*				*			*		*		*		*		*		*		*		*
T-18300	18300	150	110-270			*				*			*		*		*		*		*		*		*		*

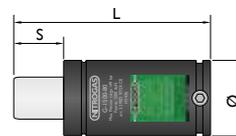
TS	F <sub>0</sub> daN	Ø mm	L mm	STROKE																							
				6	7	10	12	13	15	16	19	20	25	30	32	38	40	50	60	65	75	80	100	125	160	200	250
TS-420	420	25	56-195	*	*					*			*		*		*		*		*		*		*		*
TS-750	740	32	63-195	*	*					*			*		*		*		*		*		*		*		*
TS-1000	920	38	61-230	*	*					*			*		*		*		*		*		*		*		*
TS-1800	1800	50	66-271	*	*					*			*		*		*		*		*		*		*		*
TS-3000	3000	63	85-256			*				*			*		*		*		*		*		*		*		*
TS-4700	4700	75	80-273			*				*			*		*		*		*		*		*		*		*
TS-7500	7500	95	90-279			*				*			*		*		*		*		*		*		*		*
TS-11800	11800	120	100-320			*				*			*		*		*		*		*		*		*		*
TS-18300	18300	150	110-323			*				*			*		*		*		*		*		*		*		*

Connectable options available with TC and TCS gas springs.



# NITROGAS

## Diameter index



Model	max F <sub>0</sub>	Ø mm	S mm	L mm		Linkable	Page
Z-50	13 - 50	12	7 - 125	2xS + 42	No	No	24
Z-70	18 - 70	15	7 - 125	2xS + 42	No	No	26
R-100	30 - 90	19	7 - 125	2xS + 42	No	No	28
KP-170	170	19	7 - 125	2xS + 30	No	No	34
G-100	30-90	22	12 - 125	2xS + 60	No	No	30
K-200	50 - 200	25	7 - 125	2xS + 32	No	No	36
R-200	50 - 200	25	10 - 125	2xS + 42	No	No	38
G-200	50 - 200	25	12 - 125	2xS + 54	No	No	42
KP-320	320	25	7 - 125	2xS + 30	No	No	56
T-420	420	25	6 - 50	56 - 195	No	No	64
TS-420	420	25	6 - 50	56 - 195	No	No	66
CN-150	150	32	10 - 125	2xS + 50	No	No	40
KC-300	300	32	7 - 125	2xS + 37	No	No	46
K-300	100 - 300	32	7 - 125	2xS + 39	No	No	48
G-300	100 - 300	32	12 - 125	2xS + 60	No	No	52
M-350	350	32	15 - 125	2xS + 50	No	No	62
KP-350	360	32	10 - 125	2xS + 30	No	M6	58
NR-350	360	32	10 - 125	2xS + 40	No	M6	60
T-750	740	32	6 - 50	63 - 195	No	No	102
TS-750	740	32	6 - 50	63 - 195	No	No	104
CN-250	265	38	10 - 125	2xS + 50	No	M6	50
KP-500	470	38	10 - 125	2xS + 30	No	M6	70
NR-500	470	38	10 - 125	2xS + 40	No	G1/8"	76
M-500	500	38	12 - 125	2xS + 55	No	No	80
KC-550	550	38	12 - 125	2xS + 32	No	No	72
K-570	570	38	7 - 125	2xS + 37	No	No	74
T-1000	920	38	6 - 50	61 - 230	No	No	120
TS-1000	920	38	6 - 50	61 - 230	No	No	124
TC-1000	920	38	6 - 50	81 - 250	No	G1/8"	122
TSC-1000	920	38	6 - 50	81 - 250	No	G1/8"	126
KH-500	470	45	12.7 - 125	2xS + 50	No	G1/8"	78
CN-500	470	45	12.7 - 160	2xS + 85	No	G1/8"	84
G-500	500	45	12 - 125	2xS + 60	No	No	82
KP-750	740	45	10 - 125	2xS + 32	Yes	M6	88
NR-750	740	45	10 - 125	2xS + 47	Yes	M6	90
K-750	740	45	12 - 125	2xS + 50	Yes	G1/8"	92
HD-750	740	45	13 - 200	2xS + 85	Yes	G1/8"	98
KH-750	740	50	12.7 - 125	2xS + 50	Yes	G1/8"	94
HG-750	740	50	12.5 - 200	2xS + 70	Yes	G1/8"	96
G-750	740	50	12.7 - 300	2xS + 95	Yes	G1/8"	100
KP-1000	920	50	13-125	2xS + 38	Yes	M6	108
NR-1000	920	50	13-125	2xS + 52	Yes	G1/8"	112
NT-1000	920	50	13-125	2xS + 52	Yes	G1/8"	114
K-1000	990	50	13-125	2xS + 50	Yes	G1/8"	110
M-1000	920	50	25-160	2xS + 85	Yes	G1/8"	116

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Model	max F <sub>0</sub>	Ø mm	S mm	L mm		Linkable	Page
HD-1000	920	50	25 - 300	2xS + 95	Yes	GI/8"	118
T-1800	1800	50	6 - 50	66 - 220	No	No	148
TS-1800	1800	50	6 - 65	66 - 271	No	No	152
TC-1800	1800	50	6 - 50	86 - 240	No	GI/8"	150
TSC-1800	1800	50	6 - 65	86 - 291	No	GI/8"	154
KP-1500	1500	63	13 - 125	2xS + 44	Yes	M6	130
KC-1500	1500	63	12 - 125	2xS + 52	Yes	M6	132
NR-1500	1500	63	13 - 125	2xS + 52	Yes	GI/8"	134
K-1500	1500	63	12 - 125	2xS + 60	Yes	GI/8"	136
M-1500	1500	63	25 - 160	2xS + 85	Yes	GI/8"	140
HD-1500	1500	63	25 - 300	2xS + 95	Yes	GI/8"	144
T-3000	3000	63	10 - 50	85 - 205	No	No	178
TS-3000	3000	63	10 - 65	85 - 256	No	No	182
TC-3000	3000	63	10 - 50	105 - 225	No	GI/8"	180
TSC-3000	3000	63	10 - 65	105 - 276	No	GI/8"	184
KH-1500	1500	75	25 - 125	2xS + 60	Yes	GI/8"	138
HG-1500	1500	75	25 - 200	2xS + 85	Yes	GI/8"	142
G-1500	1500	75	25 - 300	2xS + 110	Yes	GI/8"	146
KP-2400	2400	75	16 - 125	2xS + 45	Yes	M6	158
NR-2400	2400	75	16 - 125	2xS + 59	Yes	GI/8"	160
NT-2400	2400	75	16 - 125	2xS + 59	Yes	GI/8"	162
HD-2400	2400	75	25 - 300	2xS + 110	Yes	GI/8"	168
K-2500	2500	75	12 - 125	2xS + 60	Yes	GI/8"	164
M-2500	2500	75	25 - 160	2xS + 95	Yes	GI/8"	166
KC-3000	3000	75	12 - 125	2xS + 54	Yes	M6	172
T-4700	4700	75	10 - 50	80 - 240	No	No	208
TS-4700	4700	75	10 - 65	80 - 273	No	No	212
TC-4700	4700	75	10 - 50	100 - 260	No	GI/8"	210
TSC-4700	4700	75	10 - 65	100 - 293	No	GI/8"	214
HG-3000	3000	95	25 - 200	2xS + 95	Yes	GI/8"	174
G-3000	3000	95	25 - 300	2xS + 120	Yes	GI/8"	176
K-4000	4000	95	25 - 125	2xS + 70	Yes	GI/8"	194
M-4000	4000	95	25 - 160	2xS + 110	Yes	GI/8"	196
KP-4200	4200	95	16 - 125	2xS + 58	Yes	GI/8"	188
NR-4200	4200	95	16 - 125	2xS + 62	Yes	GI/8"	190
NT-4200	4200	95	16 - 125	2xS + 62	Yes	GI/8"	192
HD-4200	4200	95	25 - 300	2xS + 120	Yes	GI/8"	198
T-7500	7500	95	10 - 50	90 - 255	No	No	234
TS-7500	7500	95	10 - 65	90 - 279	No	No	238
TC-7500	7500	95	10 - 50	110 - 275	No	GI/8"	236
TSC-7500	7500	95	10 - 65	110 - 299	No	GI/8"	240
KC-5000	5000	105	12 - 125	2xS + 60	Yes	M6	202
HG-5000	5000	120	25 - 200	2xS + 102.5	Yes	GI/8"	204
G-5000	5000	120	25 - 300	2xS + 140	Yes	GI/8"	206
M-6500	6400	120	25 - 160	2xS + 115	Yes	GI/8"	224
KP-6600	6600	120	16 - 125	2xS + 68	Yes	GI/8"	218
NR-6600	6600	120	16 - 125	2xS + 72	Yes	GI/8"	220
NT-6600	6600	120	16 - 125	2xS + 72	Yes	GI/8"	222



# NITROGAS

Model	max F <sub>0</sub>	Ø mm	S mm	L mm		Linkable	Page
HD-6600	6600	120	25 - 300	2xS + 140	Yes	G1/8"	226
T-11800	11800	120	10 - 50	100 - 260	No	No	256
TS-11800	11800	120	10 - 65	100 - 320	No	No	260
TC-11800	11800	120	10 - 50	120 - 280	No	G1/8"	258
TSC-11800	11800	120	10 - 65	120 - 340	No	G1/8"	262
HG-7500	7500	150	25 - 200	2xS + 105	Yes	G1/8"	230
CN-7500	7500	150	25 - 300	2xS + 155	Yes	G1/8"	232
KP-9500	9500	150	19 - 125	2xS + 78	Yes	G1/8"	244
NT-9500	9500	150	25 - 125	2xS + 78	Yes	G1/8"	246
HD-9500	9500	150	25 - 300	2xS + 155	Yes	G1/8"	250
G-10000	9500	150	25 - 160	2xS + 136	Yes	G1/8"	248
T-18300	18300	150	10 - 50	110 - 270	No	No	270
TS-18300	18300	150	10 - 65	110 - 323	No	No	274
TC-18300	18300	150	10 - 50	130 - 290	No	G1/8"	272
TSC-18300	18300	150	10 - 65	130 - 343	No	G1/8"	276
CN-10000	10600	195	25 - 300	2xS + 160	Yes	G1/8"	252
KP-20000	20000	195	19 - 125	2xS + 110	No	G1/8"	266
HD-20000	20000	195	25 - 300	2xS + 160	No	G1/8"	268

