

PRODUCT CATALOG

TABLE OF CONTENTS

INTRODUCTION	2
OPERATING PRINCIPLES OF GAS SPRINGS.....	3
GENERAL ADVICE FOR INSTALLATION	4
CARBON STEEL GAS SPRINGS	5
STAINLESS STEEL GAS SPRINGS.....	15
WELDED EYELET GAS SPRINGS.....	20
TENSION GAS SPRINGS.....	23
END FITTINGS	24
MOUNTING HARDWARE.....	35
MISCELLANEOUS HARDWARE	53

INTRODUCTION

LS Technologies specializes in custom manufactured Gas Charged Lift Supports / Gas Springs. We can design to your specifications for applications in, Automotive, Industrial, Marine, Office and Health Care industries. We also stock a wide variety of stock gas springs which can be ordered in any force required.

LS Technologies can also provide a cost-effective solution over replacement by re-pressuring your gas charged lift supports / gas springs fitted in applications, large or small, in all spheres of industry.

We have the ability and expertise to engineer gas-springs to meet the requirements of each customer. Gas springs can also be manufactured as per the customer's unique specifications.

We welcome your special / odd / small and high volume requirements. We will respond to all enquiries in a timely fashion.

Email us or use our contact form for your enquiry. Ask about our polished stainless steel lifts for that unique look, corrosive environments or food grade equipment.

If you are looking for replacements for Spring Lift gas springs we can help. We can provide replacements for gas springs manufactured by Spring Lift / Lift Easy / Easy lift and many others.

- We specialize in compression type gas charged lift supports / gas springs.
- We are capable of reconditioning and adjusting the force output of almost any gas spring.
- We manufacture Custom Gas Springs for rare, obsolete or specific application requirements.
- Custom manufacturing of gas springs for testing in proto type design applications.
- We carry a wide selection of new gas springs available in any pressure to fit any applications.
- Automotive, industrial, agricultural, office chairs, recreational vehicles, photocopiers and more.
- All our products and services are available with a timely turn around to help you with your projects that require immediate attention... large and small.

OPERATING PRINCIPLES OF GAS SPRINGS

A simple gas spring consists of a sealed tubular metallic cylinder with a smooth polished bore, a tight-fitting piston with a metered bore hole, a micro-finished piston rod, a specified amount of oil fill, and a gaseous high-pressure charge, of nitrogen. Since the actual spring force is provided by the high pressure of the charge gas acting on the difference in areas between the top and the bottom of the piston, the force is determined by the high gas pressure acting against the cross-sectional area of the piston rod itself.

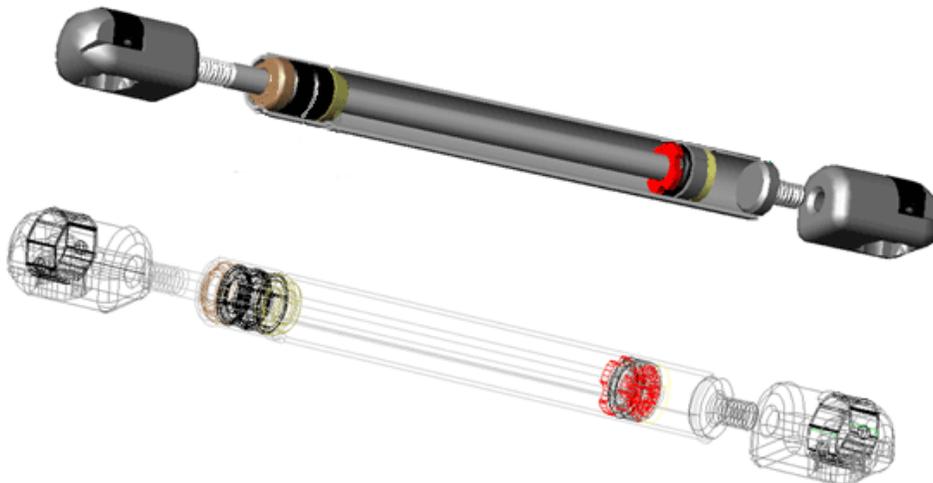
The rods are usually between 6mm and 14 mm in diameter. So to develop a force of 100 pounds with a piston rod diameter of about 10 mm requires an internal pressure charge of about 1400 psi. Damping is provided by oil and or gas being displaced to the opposite side of the piston through an orifice in the piston. When a compressed spring is released, it extends at a controlled rate rather than springing out.

Gas springs can be very long compared to compression coil springs because of the inherent rigidity of the piston-rod-cylinder design. The vast majority of gas springs supplied are compression type (push), meaning they are extended at rest, and the rod is pushed into the cylinder as the spring is compressed. Most gas springs can be compressed to about 60 percent of their extended length.



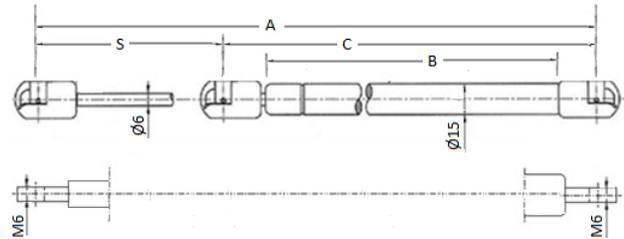
GENERAL ADVICE FOR INSTALL

- Gas springs are operated at a temperature between -30°C and 80°C.
- Gas springs are filled with pure nitrogen. Nitrogen is an inert gas which does not burn, will not explode and is not poisonous.
- **Gas springs have very high internal pressure. Do not open or heat up.**
- Gas springs should be installed with the piston rod pointing downwards. The pistons ensure the best dampening effect
- Gas springs must not be opened bent or affected vertically by side forces
- The piston rod must not be painted and must be protected against nicks, scratching and hitting. If there are unwanted events as above, the sealing systems will be damaged. This results in reducing of pressure inside tube.
- If storage of the gas springs is required, the preferred storage position is with the piston rod pointing down.
- Environmental factors can affect operation / force of gas springs. For every 10 degrees of temperature change there is generally a 3% change in output force. (lower temperature reduce output force)
- Our gas springs have a 2 year guarantee.
- Do not use gas springs in an operating environment over 80°C.
- Do not exert side loads on the gas springs



CARBON STEEL GAS SPRINGS

6x15 Standard Gas Springs



CARBON STEEL

6/15 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK15-165	165	6.5	48	1.9	117	4.6	129	5.1
GSK15-170	170	6.7	50	2.0	120	4.7	134	5.3
GSK15-190	190	7.5	58	2.3	132	5.2	154	6.1
GSK15-196	196	7.7	60	2.4	136	5.4	160	6.3
GSK15-215	215	8.5	72	2.8	143	5.6	179	7.0
GSK15-225	225	8.9	76	3.0	149	5.9	189	7.4
GSK15-235	235	9.3	82	3.2	153	6.0	199	7.8
GSK15-245	245	9.6	90	3.5	155	6.1	209	8.2
GSK15-246	246	9.7	90	3.5	156	6.1	210	8.3
GSK15-255	255	10.0	91	3.6	164	6.5	219	8.6
GSK15-275	275	10.8	104	4.1	171	6.7	239	9.4
GSK15-286	286	11.3	85	3.3	201	7.9	250	9.8
GSK15-295	295	11.6	115	4.5	180	7.1	259	10.2
GSK15-305	305	12.0	112	4.4	193	7.6	269	10.6
GSK15-315	315	12.4	121	4.8	194	7.6	279	11.0
GSK15-330	330	13.0	130	5.1	200	7.9	294	11.6
GSK15-355	355	14.0	135	5.3	220	8.7	319	12.6
GSK15-366	366	14.4	147	5.8	219	8.6	330	13.0
GSK15-375	375	14.8	150	5.9	225	8.9	339	13.3
GSK15-380	380	15.0	150	5.9	230	9.1	344	13.5
GSK15-395	395	15.6	155	6.1	240	9.4	359	14.1
GSK15-410	410	16.1	170	6.7	240	9.4	374	14.7
GSK15-430	430	16.9	175	6.9	255	10.0	394	15.5
GSK15-435	435	17.1	177	7.0	258	10.2	399	15.7

Force Range| 50 - 400N (10 - 90 lb)

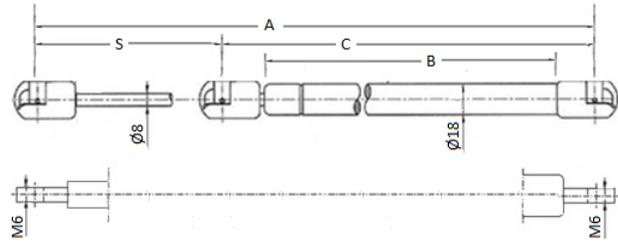
- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 6x15 up to a maximum stroke of 250mm.

6/15 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK15-455	455	17.9	192	7.6	263	10.4	419	16.5
GSK15-475	475	18.7	190	7.5	285	11.2	439	17.3
GSK15-490	490	19.3	200	7.9	290	11.4	454	17.9
GSK15-501	501	19.7	215	8.5	286	11.3	465	18.3
GSK15-508	508	20.0	203	8.0	305	12.0	472	18.6
GSK15-515	515	20.3	230	9.1	285	11.2	479	18.9
GSK15-530	530	20.9	220	8.7	310	12.2	494	19.4
GSK15-575	575	22.6	250	9.8	325	12.8	539	21.0

Force Range| 50 - 400N (10 - 90 lb)

- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 6x15 up to a maximum stroke of 250mm.

8x18 Standard Gas Springs



CARBON STEEL

8/18 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK18-175	175	6.9	50	2.0	125	4.9	139	5.5
GSK18-178	178	7.0	50	2.0	128	5.0	142	5.6
GSK18-182	182	7.2	50	2.0	132	5.2	146	5.7
GSK18-190	190	7.5	58	2.3	132	5.2	154	6.1
GSK18-205	205	8.1	60	2.4	145	5.7	169	6.7
GSK18-210	210	8.3	70	2.8	140	5.5	174	6.9
GSK18-215	215	8.5	75	3.0	140	5.5	179	7.0
GSK18-230	230	9.1	72	2.8	158	6.2	194	7.6
GSK18-240	240	9.4	80	3.1	160	6.3	204	8.0
GSK18-245	245	9.6	80	3.1	165	6.5	209	8.2
GSK18-250	250	9.8	85	3.3	165	6.5	214	8.4
GSK18-255	255	10.0	90	3.5	165	6.5	219	8.6
GSK18-260	260	10.2	94	3.7	166	6.5	224	8.8
GSK18-265	265	10.4	94	3.7	171	6.7	229	9.0
GSK18-275	275	10.8	100	3.9	175	6.9	239	9.4
GSK18-280	280	11.0	104	4.1	176	6.9	244	9.6
GSK18-285	285	11.2	105	4.1	180	7.1	249	9.8
GSK18-290	290	11.4	108	4.3	182	7.2	254	10.0
GSK18-303	303	11.9	108	4.3	195	7.7	267	10.5
GSK18-305	305	12.0	110	4.3	195	7.7	269	10.6
GSK18-310	310	12.2	118	4.6	192	7.6	274	10.8
GSK18-315	315	12.4	122	4.8	193	7.6	279	11.0
GSK18-319	319	12.6	125	4.9	194	7.6	283	11.1
GSK18-325	325	12.8	125	4.9	200	7.9	289	11.4
GSK18-330	330	13.0	130	5.1	200	7.9	294	11.6
GSK18-340	340	13.4	134	5.3	206	8.1	304	12.0
GSK18-345	345	13.6	129	5.1	216	8.5	309	12.2
GSK18-348	348	13.7	136	5.4	212	8.3	312	12.3
GSK18-355	355	14.0	135	5.3	220	8.7	319	12.6
GSK18-360	360	14.2	145	5.7	215	8.5	324	12.8

Force Range| 50 - 750N (10 - 170 lb)

- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 8x18 up to a maximum stroke of 385mm.

8/18 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK18-375	375	14.8	150	5.9	225	8.9	339	13.3
GSK18-382	382	15.0	154	6.1	228	9.0	346	13.6
GSK18-387	387	15.2	154	6.1	233	9.2	351	13.8
GSK18-390	390	15.4	160	6.3	230	9.1	354	13.9
GSK18-395	395	15.6	160	6.3	235	9.3	359	14.1
GSK18-400	400	15.7	165	6.5	235	9.3	364	14.3
GSK18-405	405	15.9	167	6.6	238	9.4	369	14.5
GSK18-410	410	16.1	170	6.7	240	9.4	374	14.7
GSK18-430	430	16.9	175	6.9	255	10.0	394	15.5
GSK18-437	437	17.2	180	7.1	257	10.1	401	15.8
GSK18-450	450	17.7	182	7.2	268	10.6	414	16.3
GSK18-458	458	18.0	190	7.5	268	10.6	422	16.6
GSK18-470	470	18.5	192	7.6	278	10.9	434	17.1
GSK18-485	485	19.1	205	8.1	280	11.0	449	17.7
GSK18-490	490	19.3	200	7.9	290	11.4	454	17.9
GSK18-500	500	19.7	210	8.3	290	11.4	464	18.3
GSK18-500 M8	500	19.7	200	7.9	300	11.8	464	18.3
GSK18-505	505	19.9	205	8.1	300	11.8	469	18.5
GSK18-510	510	20.1	210	8.3	300	11.8	474	18.7
GSK18-520	520	20.5	215	8.5	305	12.0	484	19.1
GSK18-525	525	20.7	220	8.7	305	12.0	489	19.3
GSK18-530	530	20.9	220	8.7	310	12.2	494	19.4
GSK18-550	550	21.7	240	9.4	310	12.2	514	20.2
GSK18-560	560	22.0	220	8.7	340	13.4	524	20.6
GSK18-575	575	22.6	250	9.8	325	12.8	539	21.2
GSK18-585	585	23.0	250	9.8	335	13.2	549	21.6
GSK18-600	600	23.6	260	10.2	340	13.4	564	22.2
GSK18-610	610	24.0	270	10.6	340	13.4	574	22.6
GSK18-620	620	24.4	270	10.6	350	13.8	584	23.0
GSK18-630	630	24.8	280	11.0	350	13.8	594	23.4
GSK18-640	640	25.2	280	11.0	360	14.2	604	23.8
GSK18-657	657	25.9	290	11.4	367	14.4	621	24.4
GSK18-668	668	26.3	298	11.7	370	14.6	632	24.9
GSK18-680	680	26.8	302	11.9	378	14.9	644	25.4

Force Range| 50 - 750N (10 - 170 lb)

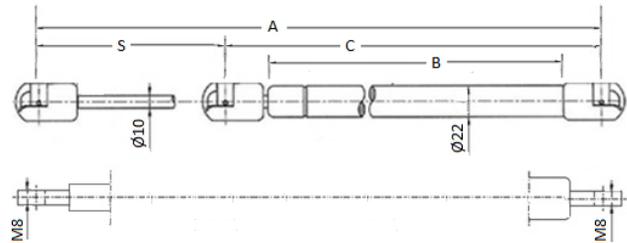
- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 8x18 up to a maximum stroke of 385mm.

8/18 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK18-690	690	27.2	310	12.2	380	15.0	654	25.7
GSK18-710	710	28.0	305	12.0	405	15.9	674	26.5
GSK18-725	725	28.5	315	12.4	410	16.1	689	27.1
GSK18-735	735	28.9	325	12.8	410	16.1	699	27.5
GSK18-750	750	29.5	335	13.2	415	16.3	714	28.1
GSK18-775	775	30.5	285	11.2	490	19.3	739	29.1
GSK18-785	785	30.9	350	13.8	435	17.1	749	29.5
GSK18-805	805	31.7	340	13.4	465	18.3	769	30.3

Force Range| 50 - 750N (10 - 170 lb)

- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 8x18 up to a maximum stroke of 385mm.

10x22 Standard Gas Springs



CARBON STEEL

10/22 Series	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK22-182	182	7.2	52	2.0	130	5.1	142	5.6
GSK22-190	190	7.5	58	2.3	132	5.2	150	5.9
GSK22-247	247	9.7	88	3.5	159	6.3	207	8.1
GSK22-275	275	10.8	100	3.9	175	6.9	235	9.3
GSK22-305	305	12.0	115	4.5	190	7.5	265	10.4
GSK22-312	312	12.3	100	3.9	212	8.3	272	10.7
GSK22-328	328	12.9	125	4.9	203	8.0	288	11.3
GSK22-336	336	13.2	130	5.1	206	8.1	296	11.7
GSK22-344	344	13.5	118	4.6	226	8.9	304	12.0
GSK22-350	350	13.8	137	5.4	213	8.4	310	12.2
GSK22-375	375	14.8	150	5.9	225	8.9	335	13.2
GSK22-390	390	15.4	155	6.1	235	9.3	350	13.8
GSK22-395	395	15.6	159	6.3	236	9.3	355	14.0
GSK22-405	405	15.9	165	6.5	240	9.4	365	14.4
GSK22-422	422	16.6	160	6.3	262	10.3	382	15.0
GSK22-424 M6	424	16.7	164	6.5	260	10.2	384	15.1
GSK22-430	430	16.9	177	7.0	253	10.0	390	15.4
GSK22-437	437	17.2	155	6.1	282	11.1	397	15.6
GSK22-450	450	17.7	187	7.4	263	10.4	410	16.1
GSK22-460	460	18.1	190	7.5	270	10.6	420	16.5
GSK22-470	470	18.5	197	7.8	273	10.7	430	16.9
GSK22-485	485	19.1	200	7.9	285	11.2	445	17.5
GSK22-490	490	19.3	207	8.1	283	11.1	450	17.7
GSK22-502	502	19.8	200	7.9	302	11.9	462	18.2
GSK22-505	505	19.9	210	8.3	295	11.6	465	18.3
GSK22-510	510	20.1	220	8.7	290	11.4	470	18.5
GSK22-525	525	20.7	225	8.9	300	11.8	485	19.1
GSK22-530	530	20.9	230	9.1	300	11.8	490	19.3
GSK22-540	540	21.3	230	9.1	310	12.2	500	19.7

Force Range| 90 – 1200N (20 – 270 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 10x22 up to a maximum stroke of 500mm.

10/22 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK22-540	540	21.3	230	9.1	310	12.2	500	19.7
GSK22-550	550	21.7	235	9.3	315	12.4	510	20.1
GSK22-560	560	22.0	245	9.6	315	12.4	520	20.5
GSK22-560 (190)	560	22.0	190	7.5	370	14.6	520	20.5
GSK22-575	575	22.6	250	9.8	325	12.8	535	21.1
GSK22-575 (180)	575	22.6	180	7.1	395	15.6	535	21.1
GSK22-580	580	22.8	180	7.1	400	15.7	540	21.3
GSK22-585	585	23.0	255	10.0	330	13.0	545	21.5
GSK22-595	595	23.4	260	10.2	335	13.2	555	21.9
GSK22-610	610	24.0	270	10.6	340	13.4	570	22.4
GSK22-630	630	24.8	275	10.8	355	14.0	590	23.2
GSK22-640	640	25.2	283	11.1	357	14.1	600	23.6
GSK22-650	650	25.6	285	11.2	365	14.4	610	24.0
GSK22-665	665	26.2	205	8.1	460	18.1	625	24.6
GSK22-668	668	26.3	298	11.7	370	14.6	628	24.7
GSK22-685	685	27.0	305	12.0	380	15.0	645	25.4
GSK22-690	690	27.2	300	11.8	390	15.4	650	25.6
GSK22-690 M8	690	27.2	310	12.2	380	15.0	650	25.6
GSK22-710	710	28.0	310	12.2	400	15.7	670	26.4
GSK22-725	725	28.5	290	11.4	435	17.1	685	27.0
GSK22-730	730	28.7	220	8.7	510	20.1	690	27.2
GSK22-730 (320)	730	28.7	320	12.6	410	16.1	690	27.2
GSK22-735	735	28.9	325	12.8	410	16.1	695	27.4
GSK22-750	750	29.5	330	13.0	420	16.5	710	28.0
GSK22-785	785	30.9	350	13.8	435	17.1	745	29.3
GSK22-800	800	31.5	362	14.3	438	17.2	760	29.9
GSK22-820	820	32.3	360	14.2	460	18.1	780	30.7
GSK22-830	830	32.7	377	14.8	453	17.8	790	31.1
GSK22-885	885	34.8	402	15.8	483	19.0	845	33.3

Force Range| 90 – 1200N (20 – 270 lb)

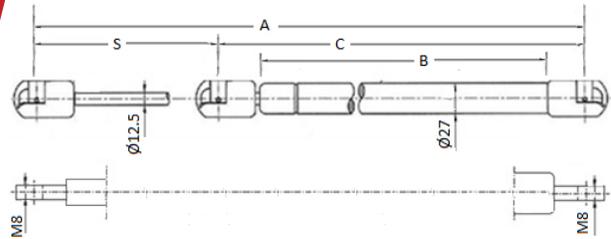
- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 10x22 up to a maximum stroke of 500mm.

10/22 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK22-900	900	35.4	412	16.2	488	19.2	860	33.9
GSK22-914	914	36.0	419	16.5	495	19.5	874	34.4
GSK22-940	940	37.0	430	16.9	510	20.1	900	35.4
GSK22-1030	1030	40.6	475	18.7	555	21.9	990	39.0
GSK22-1040	1040	40.9	485	19.1	555	21.9	1000	39.4
GSK22-1100	1100	43.3	500	19.7	600	23.6	1060	41.7
GSK22-1237	1237	48.7	500	19.7	737	29.0	1197	47.1

Force Range| 90 – 1200N (20 – 270 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 10x22 up to a maximum stroke of 500mm.

12.5x27 Standard Gas Springs



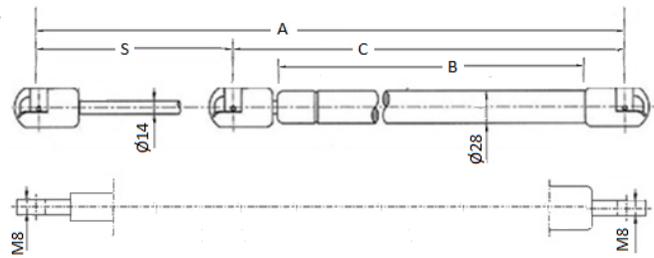
CARBON STEEL

12.5/27 Series	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK27/10-620	620	24.4	270	10.6	350	13.8	580	22.8
GSK27/10-650	650	25.6	360	14.2	290	11.4	610	24.0
GSK27/10-730	730	28.7	200	7.9	530	20.9	690	27.2
GSK27-182	182	7.2	52	2.0	130	5.1	142	5.6
GSK27-305	305	12.0	115	4.5	190	7.5	265	10.4
GSK27-330	330	13.0	80	3.1	250	9.8	290	11.4
GSK27-390	390	15.4	155	6.1	235	9.3	350	13.8
GSK27-400	400	15.7	162	6.4	238	9.4	360	14.2
GSK27-430	430	16.9	177	7.0	253	10.0	390	15.4
GSK27-490	490	19.3	206	8.1	284	11.2	450	17.7
GSK27-500	500	19.7	200	7.9	300	11.8	460	18.1
GSK27-505	505	19.9	210	8.3	295	11.6	465	18.3
GSK27-525	525	20.7	220	8.7	305	12.0	485	19.1
GSK27-550	550	21.7	235	9.3	315	12.4	510	20.1
GSK27-585	585	23.0	255	10.0	330	13.0	545	21.5
GSK27-610	610	24.0	265	10.4	345	13.6	570	22.4
GSK27-650	650	25.6	285	11.2	365	14.4	610	24.0
GSK27-668	668	26.3	292	11.5	376	14.8	628	24.7
GSK27-688	688	27.1	306	12.0	382	15.0	648	25.5
GSK27-700	700	27.6	310	12.2	390	15.4	660	26.0
GSK27-730	730	28.7	320	12.6	410	16.1	690	27.2
GSK27-830	830	32.7	375	14.8	455	17.9	790	31.1
GSK27-900	900	35.4	410	16.1	490	19.3	860	33.9
GSK27-940	940	37.0	430	16.9	510	20.1	900	35.4
GSK27-1030	1030	40.6	475	18.7	555	21.9	990	39.0
GSK27-1080	1080	42.5	500	19.7	580	22.8	1040	40.9
GSK27-1100	1100	43.3	500	19.7	600	23.6	1060	41.7
GSK27-1237	1237	48.7	500	19.7	737	29.0	1197	47.1
GSK27-1300	1300	51.2	610	24.0	690	27.2	1260	49.6

Force Range| 100 – 1700N (20 – 380 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 12.5x27 up to a maximum stroke of 500mm.

14x28 Standard Gas Springs



CARBON STEEL

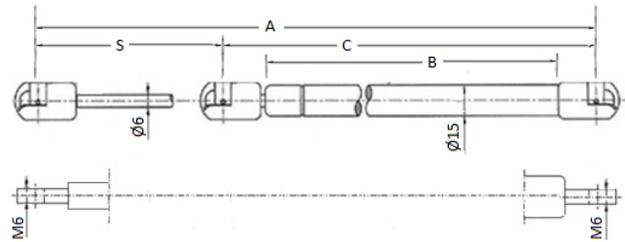
14/28 Series	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK28-300	300	11.8	100	3.9	200	7.9	260	10.2
GSK28-305	305	12.0	110	4.3	195	7.7	265	10.4
GSK28-349	349	13.7	125	4.9	224	8.8	309	12.2
GSK28-405	405	15.9	150	5.9	255	10.0	365	14.4
GSK28-430	430	16.9	177	7.0	253	10.0	390	15.4
GSK28-443	443	17.4	167	6.6	276	10.9	403	15.9
GSK28-500	500	19.7	200	7.9	300	11.8	460	18.1
GSK28-514	514	20.2	194	7.6	320	12.6	474	18.7
GSK28-520	520	20.5	210	8.3	310	12.2	480	18.9
GSK28-533	533	21.0	220	8.7	313	12.3	493	19.4
GSK28-590	590	23.2	250	9.8	340	13.4	550	21.7
GSK28-700	700	27.6	310	12.2	390	15.4	660	26.0
GSK28-705	705	27.8	290	11.4	415	16.3	665	26.2
GSK28-730	730	28.7	320	12.6	410	16.1	690	27.2
GSK28-750	750	29.5	335	13.2	415	16.3	710	28.0
GSK28-785	785	30.9	350	13.8	435	17.1	745	29.3
GSK28-830	830	32.7	375	14.8	455	17.9	790	31.1
GSK28-900	900	35.4	410	16.1	490	19.3	860	33.9
GSK28-920	920	36.2	400	15.7	520	20.5	880	34.6
GSK28-965	965	38.0	445	17.5	520	20.5	925	36.4
GSK28-975	975	38.4	445	17.5	530	20.9	935	36.8
GSK28-1030	1030	40.6	475	18.7	555	21.9	990	39.0
GSK28-1100	1100	43.3	500	19.7	600	23.6	1060	41.7
GSK28-1125	1125	44.3	510	20.1	615	24.2	1085	42.7
GSK28-1300	1300	51.2	610	24.0	690	27.2	1260	49.6
GSK28-1564	1564	61.6	720	28.3	844	33.2	1524	60.0
GSK28-1564 M10	1564	61.6	739	29.1	825	32.5	1524	60.0

Force Range| 100 – 2200N (20 – 450 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 14x28 up to a maximum stroke of 739mm.

STAINLESS STEEL GAS SPRINGS

6x15 Stainless Gas Springs



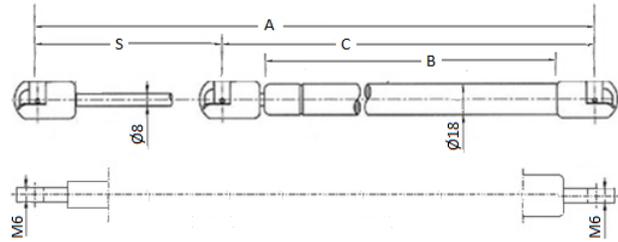
STAINLESS STEEL

6/15 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSSK15170	170	6.7	50	2.0	120	4.7	134	5.3
GSSK15178	178	7.0	48	1.9	130	5.1	142	5.6
GSSK15190	190	7.5	60	2.4	130	5.1	154	6.1
GSSK15195	195	7.7	60	2.4	135	5.3	159	6.3
GSSK15234	234	9.2	82	3.2	152	6.0	198	7.8
GSSK15255	255	10.0	90	3.5	165	6.5	219	8.6
GSSK15260	260	10.2	100	3.9	160	6.3	224	8.8
GSSK15275	275	10.8	100	3.9	175	6.9	239	9.4
GSSK15295	295	11.6	115	4.5	180	7.1	259	10.2
GSSK15305	305	12.0	110	4.3	195	7.7	269	10.6
GSSK15315	315	12.4	122	4.8	193	7.6	279	11.0
GSSK15375	375	14.8	150	5.9	225	8.9	339	13.3
GSSK15381	381	15.0	152	6.0	229	9.0	345	13.6
GSSK15390	390	15.4	160	6.3	230	9.1	354	13.9
GSSK15435	435	17.1	180	7.1	255	10.0	399	15.7
GSSK15455	455	17.9	192	7.6	263	10.4	419	16.5
GSSK15465	465	18.3	200	7.9	265	10.4	429	16.9
GSSK15510	510	20.1	220	8.7	290	11.4	474	18.7

Force Range| 50 - 400N (10 - 90 lb)

- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 6x15 up to a maximum stroke of 220mm.

8x18 Stainless Gas Springs



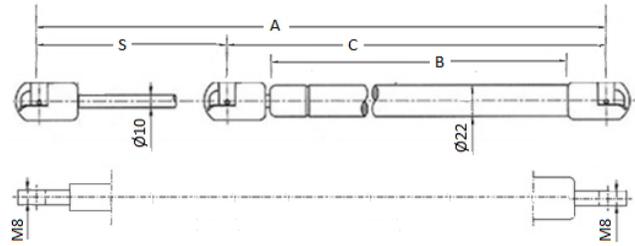
STAINLESS STEEL

8/18 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSSK18190	190	7.5	58	2.3	132	5.2	154	6.1
GSSK18245	245	9.6	80	3.1	165	6.5	209	8.2
GSSK18250-B	250	9.8	94	3.7	156	6.1	214	8.4
GSSK18255	255	10.0	90	3.5	165	6.5	219	8.6
GSSK18285	285	11.2	105	4.1	180	7.1	249	9.8
GSSK18305	305	12.0	110	4.3	195	7.7	269	10.6
GSSK18310	310	12.2	119	4.7	191	7.5	274	10.8
GSSK18315	315	12.4	122	4.8	193	7.6	279	11.0
GSSK18375	375	14.8	150	5.9	225	8.9	339	13.3
GSSK18379	379	14.9	154	6.1	225	8.9	343	13.5
GSSK18384	384	15.1	155	6.1	229	9.0	348	13.7
GSSK18390	390	15.4	160	6.3	230	9.1	354	13.9
GSSK18410	410	16.1	170	6.7	240	9.4	374	14.7
GSSK18430	430	16.9	179	7.0	251	9.9	394	15.5
GSSK18437	437	17.2	178	7.0	259	10.2	401	15.8
GSSK18455	455	17.9	192	7.6	263	10.4	419	16.5
GSSK18510	510	20.1	210	8.3	300	11.8	474	18.7
GSSK18525	525	20.7	220	8.7	305	12.0	489	19.3
GSSK18560	560	22.0	245	9.6	315	12.4	524	20.6
GSSK18585	585	23.0	256	10.1	329	13.0	549	21.6
GSSK18610	610	24.0	260	10.2	350	13.8	574	22.6
GSSK18640	640	25.2	275	10.8	365	14.4	604	23.8
GSSK18710	710	28.0	305	12.0	405	15.9	674	26.5
GSSK18735	735	28.9	325	12.8	410	16.1	699	27.5

Force Range| 50 - 750N (10 - 170 lb)

- Extended length is the centre-centre length measured with standard 18mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 8x18 up to a maximum stroke of 325mm.

10x22 Stainless Gas Springs

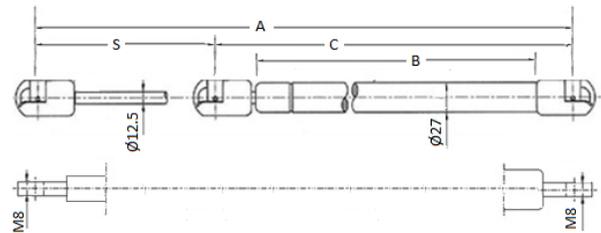


10/22 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSSK22182	182	7.2	52	2.0	130	5.1	142	5.6
GSSK22305	305	12.0	115	4.5	190	7.5	265	10.4
GSSK22350	350	13.8	135	5.3	215	8.5	310	12.2
GSSK22387	387	15.2	153	6.0	234	9.2	347	13.7
GSSK22410	410	16.1	168	6.6	242	9.5	370	14.6
GSSK22422	422	16.6	160	6.3	262	10.3	382	15.0
GSSK22437	437	17.2	180	7.1	257	10.1	397	15.6
GSSK22450	450	17.7	160	6.3	290	11.4	410	16.1
GSSK22485	485	19.1	200	7.9	285	11.2	445	17.5
GSSK22502	502	19.8	200	7.9	302	11.9	462	18.2
GSSK22510	510	20.1	220	8.7	290	11.4	470	18.5
GSSK22550	550	21.7	235	9.3	315	12.4	510	20.1
GSSK22575	575	22.6	250	9.8	325	12.8	535	21.1
GSSK22610	610	24.0	265	10.4	345	13.6	570	22.4
GSSK22660	660	26.0	290	11.4	370	14.6	620	24.4
GSSK22685	685	27.0	305	12.0	380	15.0	645	25.4
GSSK22710	710	28.0	305	12.0	405	15.9	670	26.4
GSSK22750	750	29.5	330	13.0	420	16.5	710	28.0
GSSK22785	785	30.9	350	13.8	435	17.1	745	29.3
GSSK22820	820	32.3	360	14.2	460	18.1	780	30.7
GSSK22900	900	35.4	412	16.2	488	19.2	860	33.9
GSSK221100	1100	43.3	500	19.7	600	23.6	1060	41.7

Force Range| 90 - 1200N (20 - 270 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 10x22 up to a maximum stroke of 412mm.

12.5x27 Stainless Gas Springs



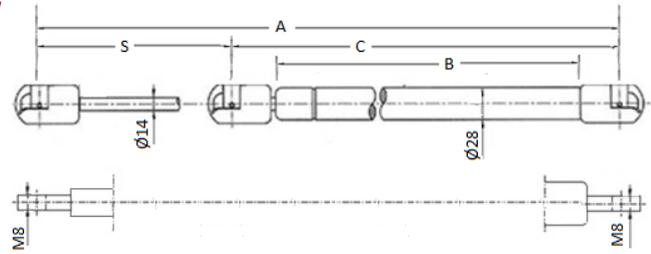
STAINLESS STEEL

12.5/27 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSSK27/10-181	181	7.1	52	2.0	129	5.1	141	5.6
GSSK27181-14	181	7.1	52	2.0	129	5.1	141	5.6
GSSK27182	182	7.2	52	2.0	130	5.1	142	5.6
GSSK27183	183	7.2	52	2.0	131	5.2	143	5.6
GSSK27238	238	9.4	86	3.4	152	6.0	198	7.8
GSSK27500	500	19.7	200	7.9	300	11.8	460	18.1
GSSK27505	505	19.9	210	8.3	295	11.6	465	18.3
GSSK27525	525	20.7	220	8.7	305	12.0	485	19.1
GSSK27830	830	32.7	375	14.8	455	17.9	790	31.1
GSSK27900	900	35.4	410	16.1	490	19.3	860	33.9
GSSK27992	992	39.1	450	17.7	542	21.3	952	37.5
GSSK271100	1100	43.3	500	19.7	600	23.6	1060	41.7
GSSK271588	1588	62.5	697	27.4	891	35.1	1548	60.9

Force Range| 100 - 1700N (20 - 380 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 12.5x27 up to a maximum stroke of 737mm.

14x28 Stainless Gas Springs



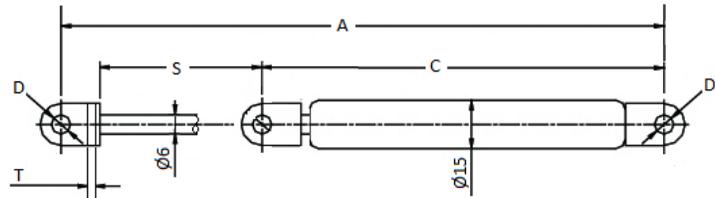
14/28 Series STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Shoulder Length [B]	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK28-300	300	11.8	100	3.9	200	7.9	260	10.2
GSK28-305	305	12.0	110	4.3	195	7.7	265	10.4
GSK28-349	349	13.7	125	4.9	224	8.8	309	12.2
GSK28-405	405	15.9	150	5.9	255	10.0	365	14.4
GSK28-430	430	16.9	177	7.0	253	10.0	390	15.4
GSK28-443	443	17.4	167	6.6	276	10.9	403	15.9
GSK28-500	500	19.7	200	7.9	300	11.8	460	18.1
GSK28-514	514	20.2	194	7.6	320	12.6	474	18.7
GSK28-520	520	20.5	210	8.3	310	12.2	480	18.9
GSK28-533	533	21.0	220	8.7	313	12.3	493	19.4
GSK28-590	590	23.2	250	9.8	340	13.4	550	21.7
GSK28-700	700	27.6	310	12.2	390	15.4	660	26.0
GSK28-705	705	27.8	290	11.4	415	16.3	665	26.2
GSK28-730	730	28.7	320	12.6	410	16.1	690	27.2

Force Range| 100 - 2200N (20 - 450 lb)

- Extended length is the centre-centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length.
- We can manufacture any size gas spring in 10x22 up to a maximum stroke of 739mm.

WELDED EYELET GAS SPRINGS

6x15 Eyelet Gas Springs



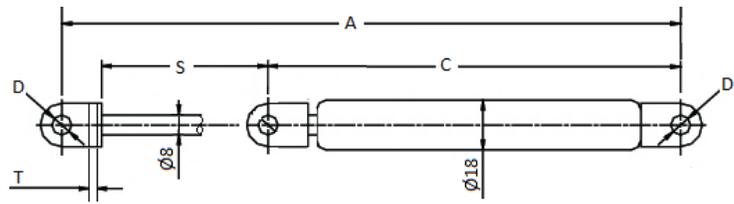
WELDED EYELET

6/15 SERIES STOCK No.	Extended Length [A]		Stroke [S]		Compressed Length [C]		Eyelet Diameter [D]		Eyelet Thickness [T]		Eyelet Offset	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK15108A	108	4.3	26	1.0	82	3.2	6	0.24	3	0.12	0	0
GSK15145A	145	5.7	40	1.6	105	4.1	6	0.24	3	0.12	0	0
GSK15146A	146	5.7	46	1.8	100	3.9	6	0.24	3	0.12	0	0
GSK15166A	166	6.5	47	1.9	119	4.7	6	0.24	3	0.12	0	0
GSK15168A	168	6.6	50	2.0	118	4.6	10	0.39	3	0.12	0	0
GSK15185A	185	7.3	65	2.6	120	4.7	6	0.24	3	0.12	0	0
GSK15196A	196	7.7	65	2.6	131	5.2	6	0.24	3	0.12	0	0
GSK15220A	220	8.7	72	2.8	148	5.8	8	0.31	3	0.12	0	0
GSK15225A	225	8.9	75	3.0	150	5.9	6	0.24	3	0.12	0	0
GSK15227A	227	8.9	83	3.3	144	5.7	6	0.24	3	0.12	0	0
GSK15230A	230	9.1	76	3.0	154	6.1	8	0.31	3	0.12	0	0
GSK15267A	267	10.5	110	4.3	157	6.2	6	0.24	3	0.12	0	0
GSK15270A	270	10.6	90	3.5	180	7.1	6	0.24	3	0.12	0	0
GSK15272A	272	10.7	100	3.9	172	6.8	6	0.24	3	0.12	0	0
GSK15286A	286	11.3	85	3.3	201	7.9	6	0.24	3	0.12	0	0
GSK15359A	359	14.1	135	5.3	224	8.8	9	0.35	3	0.12	2	0.08
GSK15368A	368	14.5	155	6.1	213	8.4	6	0.24	5	0.20	0	0
GSK15430A	430	16.9	190	7.5	240	9.4	6	0.24	3	0.12	0	0

Force Range | 50 - 400N (10 - 90 lb)

- A welded eyelet end is often used to maximize the amount of stroke one can achieve given a specified extended length.
- Other sizes are available.

8x18 Eyelet Gas Springs

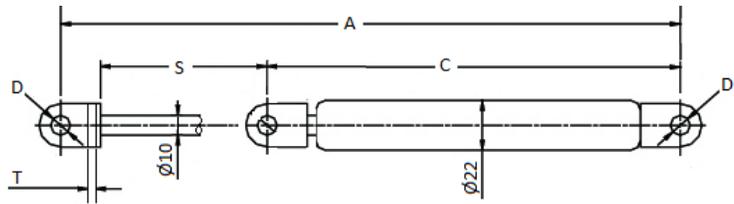


8/18 SERIES	Extended Length [A]		Stroke [S]		Compressed Length [C]		Eyelet Diameter [D]		Eyelet Thickness [T]		Eyelet Offset	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK18166A	166	6.5	50	2.0	116	4.6	10	0.39	3	0.12	0	0
GSK18177A	177	7.0	52	2.0	125	4.9	10	0.39	3	0.12	0	0
GSK18205A	205	8.1	67	2.6	138	5.4	8	0.31	5	0.20	0	0
GSK18215A	215	8.5	75	3.0	140	5.5	8	0.31	5	0.20	0	0
GSK18223A	223	8.8	66	2.6	157	6.2	8	0.31	5	0.20	0	0
GSK18227- SOCOTA	227	8.9	76	3.0	151	5.9	6	0.24	5	0.20	0	0
GSK18250A	250	9.8	85	3.3	165	6.5	10	0.39	3	0.12	0	0
GSK18252A	252	9.9	80	3.1	172	6.8	10	0.39	3	0.12	0	0
GSK18255A	255	10.0	90	3.5	165	6.5	8	0.31	5	0.20	0	0
GSK18255A- 3T10H	255	10.0	90	3.5	165	6.5	10	0.39	3	0.12	0	0
GSK18285A	285	11.2	105	4.1	180	7.1	8	0.31	5	0.20	0	0
GSK18315A	315	12.4	122	4.8	193	7.6	8	0.31	5	0.20	0	0

Force Range| 50 - 750N (10 - 170 lb)

- A welded eyelet end is often used to maximize the amount of stroke one can achieve given a specified extended length.
- Other sizes are available.

10x22 Eyelet Gas Springs



10/22 SERIES	Extended Length [A]		Stroke [S]		Compressed Length [C]		Eyelet Diameter [D]		Eyelet Thickness [T]		Eyelet Offset	
	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches
GSK22247A	247	9.7	88	3.5	159	6.3	8	0.31	5	0.20	0	0
GSK22365A	365	14.4	125	4.9	240	9.4	10	0.39	5	0.20	5	0.2

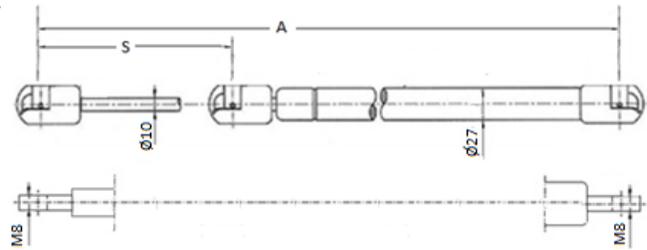
Force Range| 90 – 1200N (20 - 270 lb)

- A welded eyelet end is often used to maximize the amount of stroke one can achieve given a specified extended length.
- Other sizes are available.

WELDED EYELET

TENSION GAS SPRINGS

12.5x27 Tension Gas Springs



TENSION

12.5/27 SERIES STOCK No.	Extended Length [A-S]		Stroke [S]		Compressed Length [C]	
	mm	Inches	mm	Inches	mm	Inches
TS27305	301	11.9	100	3.9	201	7.9
TS27405	399	15.7	148	5.8	251	9.9
TS27505	499	19.6	198	7.8	301	11.9
TS27610	605	23.8	252	9.9	353	13.9
TS27685	682	26.9	290	11.4	392	15.4
TS27875	869	34.2	383	15.1	486	19.1

Force Range| 100 - 1700N (20 - 380 lb)

- Tension gas springs act in the opposite form as regular gas springs, by always having a tension (tendency to shorten) force. Please see end fitting section to view available end fittings.
- Compressed length is the centre – centre length measured with standard 20mm end fittings. Using other end fittings may alter the overall length. Other sizes are available.
- We can custom manufacture other sizes of tension gas springs. May also be available in stainless steel.
- Tension gas springs **DO NOT** have end of stroke damping.

END-FITTINGS

PLASTIC

#	End-Fitting	Part Number	Description
1		B6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Comments: Smaller Body
2		B8	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Comments: Common
3		PLA-1-M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Comments: 16 Degree Angle
4		SS2	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Comments: Plastic Locking Cover
5		OBS	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Comments: Plastic Locking Slider
6		B10A	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 18 d. Comments: Common
7		PLA-1-M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 18 d. Comments: 16 Degree Angle

METAL BALL SOCKET

#	End-Fitting	Part Number	Description
1		C1320M6	a. Ball Size (mm): 8 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Material: Zinc Plated
2		C918M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Material: Black Coated
3		C918M6N	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Material: Nickel Plated
4		C919M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 19 d. Material: Black Coated
5		C920M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Material: Black Coated
6		C922M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 22.5 d. Material: Black Coated
7		C925M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 25 d. Material: Black Coated
8		C930M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 30 d. Material: Black Coated
9		C918M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 18 d. Material: Black Coated

METAL BALL SOCKET

#	End-Fitting	Part Number	Description
10		C920M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 20 d. Material: Black Coated
11		C925M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 25 d. Material: Black Coated
12		C930M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 30 d. Material: Black Coated
13		C1920M8	a. Ball Size(mm): 13 b. Housing Thread: M8x1.25 c. On-Centre Length: 20 d. Material: Black Coated
14		C1925M8	a. Ball Size(mm): 13 b. Housing Thread: M8x1.25 c. On-Centre Length: 25 d. Material: Black Coated
15		C1930M8	a. Ball Size(mm): 13 b. Housing Thread: M8x1.25 c. On-Centre Length: 30 d. Material: Black Coated
16		C2430M8	a. Ball Size(mm): 16 b. Housing Thread: M8x1.25 c. On-Centre Length: 30 d. Material: Yellow Zinc Plated
17		C2435M8	a. Ball Size(mm): 16 b. Housing Thread: M8x1.25 c. On-Centre Length: 35 d. Material: Yellow Zinc Plated
18		C2430M10	a. Ball Size(mm): 16 b. Housing Thread: M10x1.5 c. On-Centre Length: 30 d. Material: Yellow Zinc Plated

METAL BALL SOCKET

#	End-Fitting	Part Number	Description
19		C2435M10	a. Ball Size(mm): 16 b. Housing Thread: M10x1. 5 c. On-Centre Length: 35 d. Material: Yellow Zinc Plated
20		C1320M6SS	a. Ball Size(mm): 8 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Material: Stainless SUS 303
21		C918M6SS	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 18 d. Material: Stainless SUS 303
22		C920M6SS	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Material: Stainless SUS 303
23		C925M6SS	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 25 d. Material: Stainless SUS 303
24		C930M6SS	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 30 d. Material: Stainless SUS 303
25		C918M8SS	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 18 d. Material: Stainless SUS 303
26		C1920M6SS	a. Ball Size(mm): 13 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Material: Stainless SUS 303
27		C1925M8SS	a. Ball Size(mm): 13 b. Housing Thread: M8x1.25 c. On-Centre Length: 25 d. Material: Stainless SUS 303

METAL BALL SOCKET

#	End-Fitting	Part Number	Description
28		C1930M8SS	a. Ball Size(mm): 13 b. Housing Thread: M8x1.25 c. On-Centre Length: 30 d. Material: Stainless SUS 303
29		EFSS - 16M	a. Ball Size(mm): 16 b. Housing Thread: M10x1.5 c. On-Centre Length: 35 d. Material: Stainless SUS 303

OTHER BALL SOCKET

#	End-Fitting	Part Number	Description
1		C1820M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Comments: Permanent
2		C1820M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 20 d. Material: Permanent
3		M920M6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 20 d. Material: Snap-on
4		M920M8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.25 c. On-Centre Length: 20 d. Material: Snap-on
5		QRM6	a. Ball Size(mm): 10 b. Housing Thread: M6x1.0 c. On-Centre Length: 32 d. Material: Black Coated
6		QRM8	a. Ball Size(mm): 10 b. Housing Thread: M8x1.0 c. On-Centre Length: 32 d. Material: Black Coated

EYELET

#	End-Fitting	Part Number	Description	
1		D1	a. Width(mm): 19 c. Dia(mm): 6 e. On-Centre Length: 15	b. Thread(mm): M6 d. Thickness(mm): 12 f. Material: Die Cast
2		D2	a. Width(mm): 19 c. Dia(mm): 8 e. On-Centre Length: 16	b. Thread(mm): M6 d. Thickness(mm): 12 f. Material: Die Cast
3		D3	a. Width(mm): 19 c. Dia(mm): 10 e. On-Centre Length: 16	b. Thread(mm): M8 d. Thickness(mm): 12 f. Material: Die Cast
4		D4	a. Width(mm): 19 c. Dia(mm): 12 e. On-Centre Length: 16	b. Thread(mm): M6 d. Thickness(mm): 12 f. Material: Die Cast
5		D5	a. Width(mm): 19 c. Dia(mm): 12 e. On-Centre Length: 16	b. Thread(mm): M8 d. Thickness(mm): 12 f. Material: Die Cast
6		D6	a. Width(mm): 13 c. Dia(mm): 6 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 5 f. Material: Die Cast
7		D6A	a. Width(mm): 13 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 5 f. Material: Die Cast
8		D8	a. Width(mm): 18 c. Dia(mm): 8 e. On-Centre Length: 15.5	b. Thread(mm): M8 d. Thickness(mm): 12 f. Material: Die Cast
9		D8A	a. Width(mm): 16 c. Dia(mm): 8 e. On-Centre Length: 28	b. Thread(mm): M8 d. Thickness(mm): 5 f. Material: Die Cast

EYELET

#	End-Fitting	Part Number	Description	
10		D8A2	a. Width(mm): 16 c. Dia(mm): 8 e. On-Centre Length: 28	b. Thread(mm): M6c. d. Thickness(mm): 5e. f. Material: Die Cast
12		D10	a. Width(mm): 18 c. Dia(mm): 10 e. On-Centre Length: 15.5	b. Thread(mm): M8 d. Thickness(mm): 12 f. Material: Die Cast
13		D13	a. Width(mm): 18 c. Dia(mm): 8 e. On-Centre Length: 15.5	b. Thread(mm): M8 d. Thickness(mm): 18 f. Material: Die Cast with Plastic
14		L1	a. Width(mm): 10 c. Dia(mm): 6 e. On-Centre Length: 18	b. Thread(mm): M6 d. Thickness(mm): 6 f. Material: Aluminum
15		L2	a. Width(mm): 16.2 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Aluminum
16		L3	a. Width(mm): 16 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Aluminum
17		L4	a. Width(mm): 14 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 10 f. Material: Aluminum
18		L1SS	a. Width(mm): 10 c. Dia(mm): 6 e. On-Centre Length: 18	b. Thread(mm): M6 d. Thickness(mm): 6 f. Material: Stainless Steel
19		L2SS	a. Width(mm): 16.2 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Stainless Steel

EYELET

#	End-Fitting	Part Number	Description	
20		L5SM608	a. Width(mm): 15 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 10 f. Material: Stainless Steel
21		L5SM610	a. Width(mm): 15 c. Dia(mm): 10 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 10 f. Material: Stainless Steel
22		L5SM808	a. Width(mm): 15 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Stainless Steel
23		L5SM810	a. Width(mm): 15 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Stainless Steel
24		BESS 257	a. Width(mm): 15 c. Dia(mm): 6.6 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 5 f. Material: Stainless Steel
25		BESS328	a. Width(mm): 19 c. Dia(mm): 8 e. On-Centre Length: 19	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Stainless Steel
26		BESS390	a. Width(mm): 19 c. Dia(mm): 10 e. On-Centre Length: 32	b. Thread(mm): M10 d. Thickness(mm): 13 f. Material: Stainless Steel
27		PLS 1C	a. Width(mm): 22 c. Dia(mm): 10 e. On-Centre Length: 30	b. Thread(mm): M6 d. Thickness(mm): 10 f. Material: Plastic
28		TZK2	a. Width(mm): 18 c. Dia(mm): 8 e. On-Centre Length: 25	b. Thread(mm): M8 d. Thickness(mm): 18 f. Material: Zamac

EYELET

#	End-Fitting	Part Number	Description	
29		T8	a. Width(mm): 18 c. Dia(mm): 8 e. On-Centre Length: 22.5	b. Thread(mm): M8 d. Thickness(mm): 18 f. Material: Steel Zinc
30		T10	a. Width(mm): 18 c. Dia(mm): 10 e. On-Centre Length: 22.5	b. Thread(mm): M8 d. Thickness(mm):18 f. Material: Die Cast
31		TDN125	a. Width(mm): 15 c. Dia(mm): 10 e. On-Centre Length: 25	b. Thread(mm): M8 d. Thickness(mm): 5 f. Material: Steel Zinc
32		TDN190	a. Width(mm): 16 c. Dia(mm): 10 e. On-Centre Length: 19	b. Thread(mm): M6 d. Thickness(mm):10 f. Material: Steel Zinc
33		TDN603	a. Width(mm): 15 c. Dia(mm): 6 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm):3 f. Material: Steel Zinc
34		TDN623	a. Width(mm): 15 c. Dia(mm): 10 e. On-Centre Length: 25	b. Thread(mm): M6 d. Thickness(mm):5 f. Material: Steel Zinc
35		TDN663	a. Dia(mm): 6 c. Width(mm): 15 e. On-Centre Length: 22	b. Thread(mm): M6 d. Thickness(mm):3 f. Material: Steel Zinc
36		TDN822	a. Width(mm): 15 c. Dia(mm): 8 e. On-Centre Length: 22	b. Thread(mm): M8 d. Thickness(mm): 5 f. Material: Steel Zinc
37		TDN824	a. Width(mm): 13 c. Dia(mm): 6 e. On-Centre Length: 15	b. Thread(mm): M6 d. Thickness(mm): 3 f. Material: Steel Zinc

EYELET

#	End-Fitting	Part Number	Description	
38		TDN828	a. Width(mm): 15 c. Dia(mm): 8 e. On-Centre Length: 22	b. Thread(mm): M6 d. Thickness(mm): 5 f. Material: Steel Zinc
39		A7	a. Width(mm): 14 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness(mm): 5 f. Material: Aluminum
40		A6600	a. Width(mm): 12 c. Dia(mm): 8 e. On-Centre Length: 13	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Steel Zinc
41		EFAL390	a. Width(mm): 21 c. Dia(mm): 10 e. On-Centre Length: 35	b. Thread(mm): M8 d. Thickness(mm): 10 f. Material: Aluminum
42		SS1	a. Width(mm): 18.4 c. Dia(mm): 8 e. On-Centre Length: 20	b. Thread(mm): M6 d. Thickness: 10 f. Material: Plastic

MOUNTING BRACKETS

Steel (10mm Ball)

				
BKT-01 Zinc plated BKT-01B Black Coated	BKT-02 Zinc plated	BKT-03 Zinc plated	BKT-04 Zinc plated BKT-04B Black Coated	BKT-04-I Zinc plated BKT-04-IB Black Coated
				
BKT-05 Zinc plated BKT-05B Black Coated	BKT-06 Zinc plated BKT-06B Black Coated	BKT-07 Zinc plated	BKT-08 Zinc plated BKT-08B Black Coated	BKT-09 Zinc plated
				
BKT-09A Zinc plated BKT-09AB Black Coated	BKT-10-O Zinc plated BKT-10-OB Black Coated	BKT-10-I Zinc plated BKT-10-IB Black Coated	BKT-11AB Black Coated	BKT-12A Black Coated

Steel (10mm Ball)

				
BKT-21-O (B410) Zinc BKT-21-O Black Coated	BKT-21-I Zinc plated	BKT-22 Black Coated	BKT-22-A Black Coated	BKT-22-I Black Coated
				
BKT-22-O Black Coated	BKT-23-I Black Coated	BKT-23-O Black Coated	BKT-23A Black Coated	BKT-24-I Black Coated
				
BKT-26-R Black Coated	BKT-27-L Black Coated	BKT-27-R Black Coated	BKT-28-L Black Coated	BKT-28-R Black Coated
				
BKT-32 Zinc Plated	GPB-2SB Zinc plated	GSKBKT-1 Zinc plated	GSKBKT-2 Zinc plated	GSKBKT-3 Zinc Plated



GSKBKT-4 Zinc plated

GPB-08 Zinc Plated

Steel (13mm Ball)



BKTS-01



BKTS-04



BKTS-04-I



BKTS-05



BKTS-06



BKTS-08



BKTS-09A



BKTS-10-O



BKTS-10-I



BKTS-11A



BKTS-12A

Stainless Steel (10mm Ball)



BR218 Stainless Steel



BR228 Stainless Steel



BR229 Stainless Steel



BR229-R Stainless Steel

Eyelet (6mm Bolt)



BKTS-16



BKTS-18



BKTS-19A

Eyelet (8mm Bolt)



BKTS-16



BKTS-18



BKTS-19A



BKT-14



BR-221

BRACKETS

MOUNTING BRACKETS

Steel (10mm Ball)

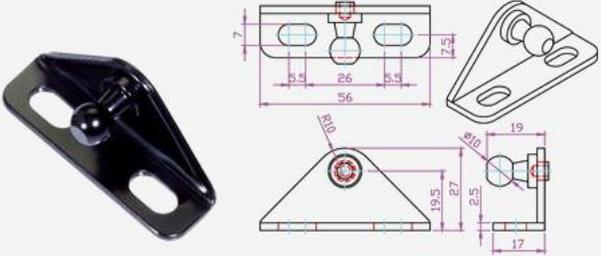
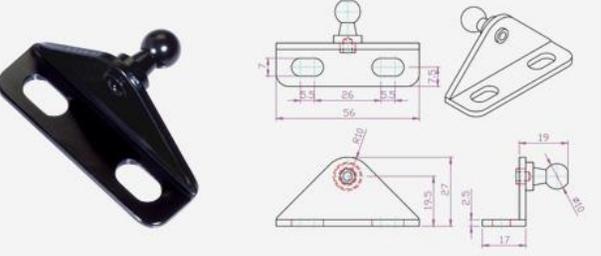
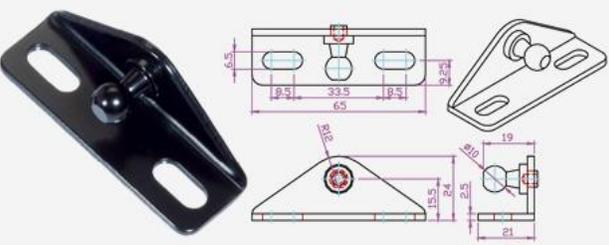
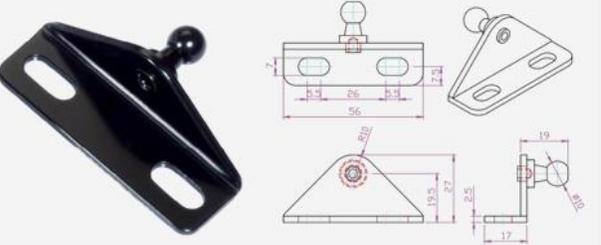
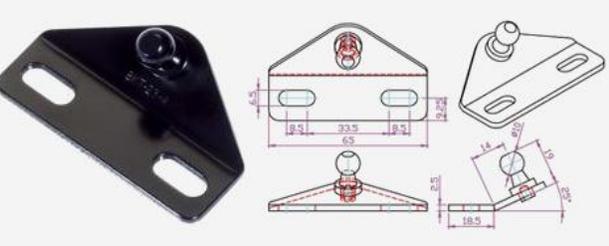
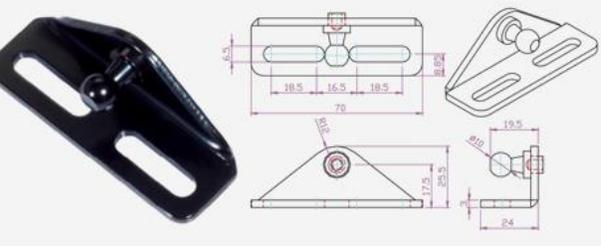
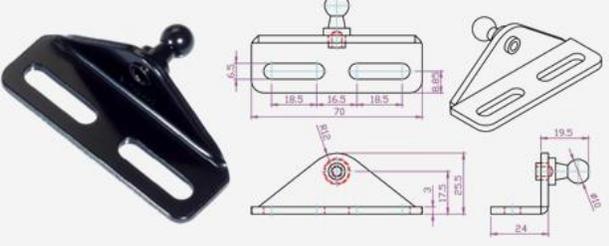
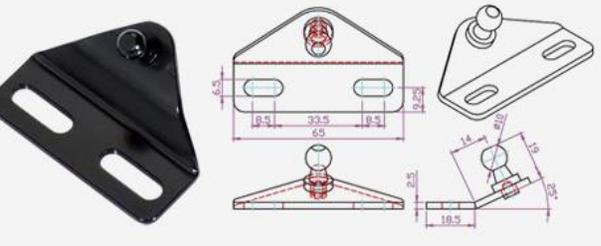
BRACKETS

<p>BKT-01 ZINC BKT-01B BLACK COATED</p>	<p>BKT-02 ZINC</p>
<p>BKT-03 ZINC</p>	<p>BKT-03-I ZINC</p>
<p>BKT-04 ZINC BKT-04B BLACK COATED</p>	<p>BKT-04-I ZINC BKT-04-IB BLACK COATED</p>

Steel (10mm Ball)

<p>BKT-05 ZINC BKT-05B BLACK COATED</p>	<p>BKT-06 ZINC BKT-06B BLACK COATED</p>
<p>BKT-06B NICKEL</p>	<p>BKT-07 ZINC</p>
<p>BKT-08 ZINC</p>	<p>BKT-08B NICKEL</p>
<p>BKT-09 ZINC</p>	<p>BKT-09A ZINC BKT-09AB BLACK COATED</p>

Steel (10mm Ball)

	
<p>BKT-22-I BLACK COATED</p>	<p>BKT-22-O BLACK COATED</p>
	
<p>BKT-23-I BLACK COATED</p>	<p>BKT-23-O BLACK COATED</p>
	
<p>BKT-23-A BLACK COATED</p>	<p>BKT-24-I BLACK COATED</p>
	
<p>BKT-24-O BLACK COATED</p>	<p>BKT-25-C BLACK COATED</p>

Steel (10mm Ball)

<p>BKT-32</p>	<p>GPB-08 ZINC PLATED</p>
<p>GSKBKT-01 ZINC PLATED</p>	<p>GSKBKT-02 ZINC PLATED</p>
<p>GSKBKT-03 ZINC PLATED</p>	<p>GSKBKT-04 ZINC PLATED</p>

BRACKETS

BALL STUDS

Steel (Metric)



Fig.	Ball Stud	Ball Size(A)	Thread (B)	Thread Length(C)	Ball Heights(D)	Comments
1.	SW7M5	8	M5X0.8	10	9	ZINC PLATED
2.	AGBS	10	M8x1.25	13	17	WITH WASHER
3.	SW10N	10	M6x1.0	9	12	NICKEL
4.	SW11	10	M6x1.0	12	15	BLACK ZINC
5.	SW12	10	M8x1.25	14	14	MOST COMMON
6.	SW12Z	10	M8x1.25	14	14	ZINC PLATED
7.	SW13	10	M8x1.25	13	13	YELLOW ZINC
8.	SW-LS004	10	M8x1.25	16	15	ZINC PLATED
9.	SW-LS008	10	See Fig.	See Fig.	13	CARBON STEEL
10.	SW-LS030	10	M8x1.25	15	15	M8 WITH WASHER
11.	SW-LS010	13	M10x1.5	19	15	ZINC PLATED
12.	SW-LS016	13	M10x1.5	30	15	ZINC PLATED
13.	SW-LS024	13	M10x1.5	30	15	ZINC PLATED
14.	SW-LS025	13	M8x1.25	15	16	ZINC PLATED
15.	SW14	13	M8x1.25	13	15	ZINC PLATED
16.	SW15	13	M10x1.5	13.5	15	ZINC PLATED
17.	SW16	13	M8x1.25	16	14	ZINC PLATED
18.	SW17	13	M8x1.25	20	22	ZINC PLATED

Stainless Steel (Metric)

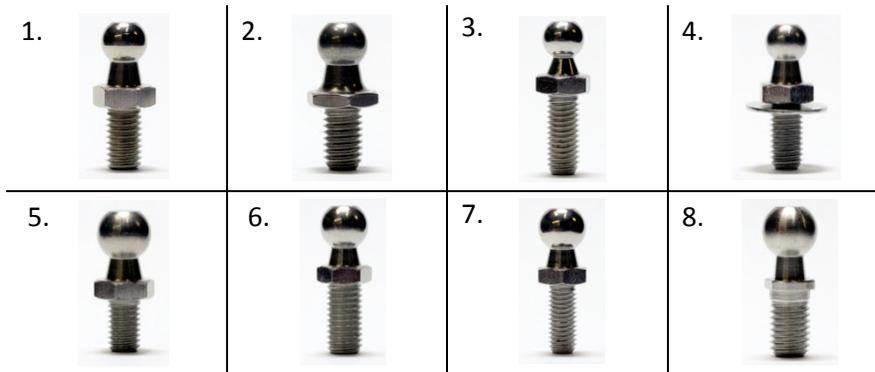


Fig.	Ball Stud	Ball Size(A)	Thread (B)	Thread Length(C)	Ball Heights(D)	Comments
1.	SW12SS	10	M8x1.25	14	15	
2.	SW13SS	10	M8x1.25	13	13	
3.	SWS-LS005	10	M8x1.25	19	13	
4.	SWS-LS030	10	M8x1.25	15	15	W/WASHER
5.	SW14SS	13	M8x1.25	13	15	
6.	SWS-LS010	13	M10x1.5	19	15	
7.	SWS-LS017	13	M8x1.25	19	15	
8.	BSSS-16M	16	M12x1.75	20	16	

Steel SAE (Standard)

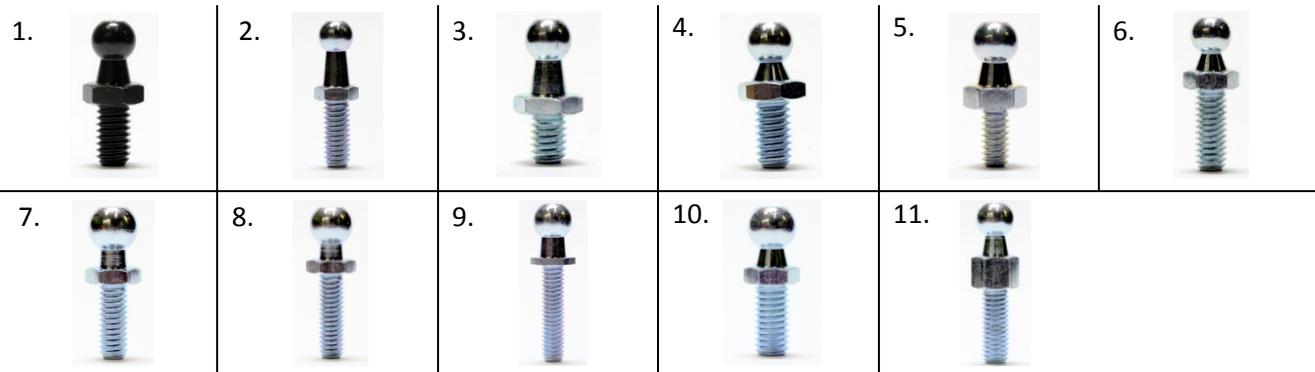


Fig.	Ball Stud	Ball Size(A)	Thread (B)	Thread Length(C)	Ball Heights(D)	Comments
1.	SW516	10	5/16"-18	14	15	BLACK ZINC
2.	SW-LS001	10	5/16"-18	19	19	ZINC PLATED
3.	SW-LS002	10	5/16"-18	10	16	ZINC PLATED
4.	SW-LS009	13	5/16"-18	14	12	ZINC PLATED
5.	SW-LS020	10	1/4"-20	12.5	14	ZINC PLATED
6.	SW-LS021	10	5/16"-18	20	13	ZINC PLATED
7.	SW-LS006	13	5/16"-18	18	13	ZINC PLATED
8.	SW-LS006L	13	5/16"-18	1"	15	ZINC PLATED
9.	SW-LS007	13	5/16"-18	32	13	ZINC PLATED
10.	SW-LS011	13	3/8" - 16	19	15	ZINC PLATED
11.	SW-LS012	13	3/8" - 16	25	23	ZINC PLATED

Stainless Steel SAE (Standard)

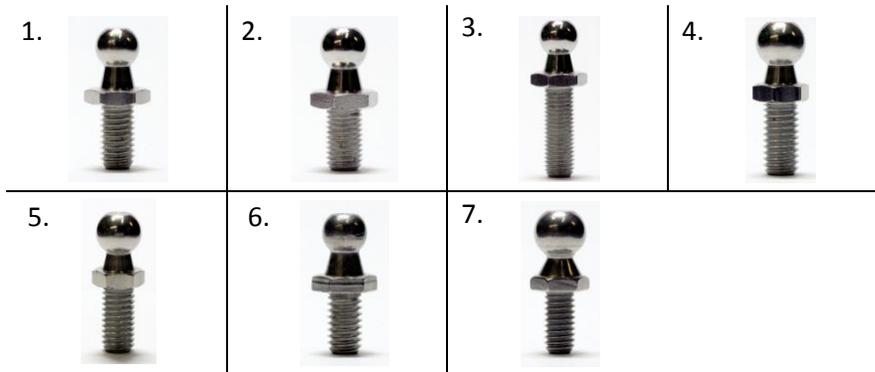


Fig.	Ball Stud	Ball Size(A)	Thread (B)	Thread Length(C)	Ball Heights(D)	Comments
1.	SWS-LS013	10	5/16"-18	15	13	
2.	SWS-LS018	10	5/16"-24	13	13	
3.	SWS-LS019	10	5/16"-24	23	13	
4.	SWS-LS006	13	5/16"	18	13	
5.	SWS-LS011	13	3/8"	19	15	
6.	BSSS-10E	10	5/16"-18	15	12	
7.	BSSS-13E	13	5/16"-18	16	15	

Special

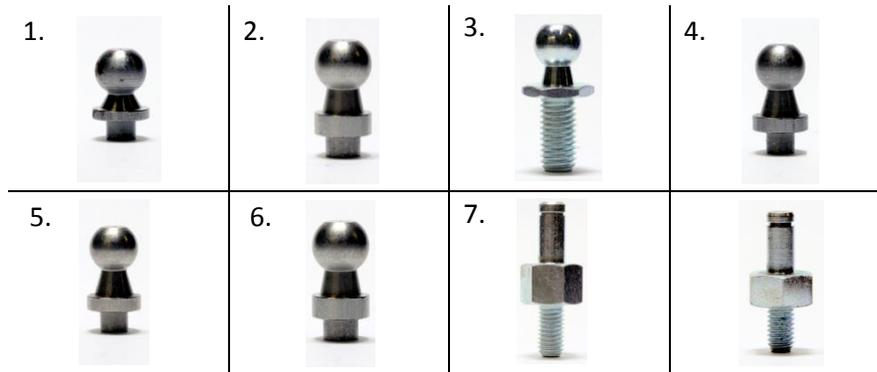
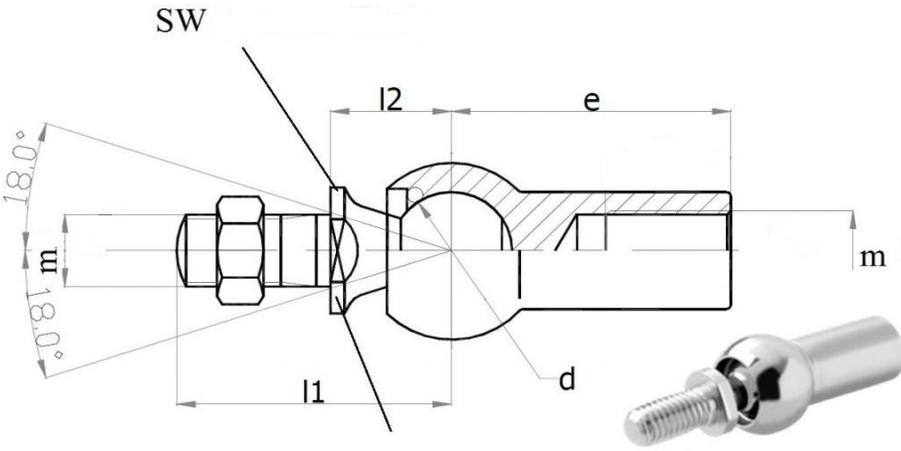


Fig.	Ball Stud	Ball Size(A)	Thread (B)	Thread Length(C)	Ball Heights(D)	Comments
1.	SW-LS014	10	See Fig.	See Fig.	13	NO SURFACE TREATMENT
2.	SW-LS029	13	See Fig.	5	16.5	NO SURFACE TREATMENT
3.	SW8272	13	M10x1.5	20	14	ZINC PLATED
4.	SWS-LS008	10	See Fig.	See Fig.	13	NO SURFACE TREATMENT
5.	SWS-LS014	10	See Fig.	See Fig.	13	NO SURFACE TREATMENT
6.	SWS-LS029	13	See Fig.	5	16.5	NO SURFACE TREATMENT
7.	SW6411	See Fig.	M8x1.25	See Fig.	See Fig.	ZINC PLATED
8.	SW6412	See Fig.	M6x1.0	See Fig.	See Fig.	ZINC PLATED

MISCELLANEOUS HARDWARE

Axial Ball Joints



Part #	d (Ball Dia.)	m	e	l1	SW
ORN2	Ø10	M6	23,5	10	
ORN3	Ø13	M8	30,5	13	