T-TECHNICS

The gas spring specialist

WWW.T-TECHNICS.NL

Gasspring Catalogue

T-Technics B.V.
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Terms of delivery (shortened version)

General:	See our general terms and conditions of sale, supply and payment
Delivery's:	Within EU: by GLS, out of EU: Ex. Workx. Freight costs GLS depending on where the goods wil be transported.
Business payment:	Pre-payment or if agreed so, within 30 days after invoice date, out of EU always Pre-payment, we cannot accept bank costs, all costs are for the buyer
Prijzen:	All prices are Netto ex VAT, prices can be changed without pre-announcement
Aansprakelijkheid:	All data, values, measurements, capacities, etc., stated in this book have been compiled and processed to the best of our knowledge. However, we cannot be held responsible for any inaccuracies that may arise. Reproduction of text and/or images from this book is not permitted without our written permission.

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BANK: ABN AMBRO ACCOUNTNO.: NL97 ABNA 0442 3599 42 BIC: ABNANL2A
Chamber of Commerce: K.v.K. Oost Nederland 06059919 VAT: NL 8026.38.636.B01

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In this catalog you can find our range of gas springs and accessories.
Need help or are you looking for something you can't find? E-MAIL OR CALL US, we are happy to help you!

Mail: info@t-technics.nl

Or call: +31-(0)74-2502750

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General Explanation

T-Technics can supply all kinds of gas springs, both a standard product and a “special custom gas spring”.

Gas spring definition:

A gas spring consists of a cylinder tube and a piston rod with a piston and is filled with (high) pressure nitrogen.
The pressure is the same above and below the piston, as there is a throughflow channel in the piston that also ensures final damping of both the input and output stroke.
The filling pressure x which pushes the surface of the piston rod determines the extension force.

A user manual is supplied with all gas springs. Please study this manual carefully!

Explanation AIRAX gas springs program:

The standard range of gas springs is produced by AIRAX in France.

AIRAX-France is one of the largest manufacturers of gas springs in Europe and is a main supplier to Citroën, Peugeot and Renault, among others.

AIRAX gas springs are equipped with a black coated cylinder, which guarantees excellent corrosion resistance.

The piston rods are black nitrided.

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Explanation T-Technics program

T-Technics Gas springs-Specials from our own production:

Delivery program:

Gas pressure and gas tension springs, in standard steel zinc plated and in stainless steel 316, Force-releasable gas springs, Oil dampers.

Some of the above products have been developed in collaboration with relations. T-Technics is happy to look at the possibilities of acting as a problem solver, trying to use standard parts, which can save time and money.
T-Technics gas springs are equipped with a hard chromed or hard chromed stainless steel 316 piston rod.
The cylinders are silver gloss galvanized or manufactured from 320 grit stainless steel 316 tube.

All T-Technics gas springs (with the exception of Airax gas springs) can be added/refilled/deflated, meaning that the extension force can be increased or decreased by us afterwards. At Airax springs the force only can be made higher.

T-Technics can supply gas pressure and gas tension springs with stroke lengths of several meters !!
When using the full stroke, an amount of oil provides damping on both the compression and rebound stroke. This damping can be increased/reduced if necessary.
Gas springs can be used at temperatures from -30 to +80 degrees Celsius. Gas springs for higher and/or lower temperatures on request.

Gas springs must be able to operate absolutely free of lateral forces and the piston rods must be kept free of damage and dirt. Aggressive cleaning products are not allowed.

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General explanation gas springs

When using eyelets, maintain an axial play of 0.3 to 0.5 mm and a lateral play of 0.5 to 1.0 mm.
Use ball joints or rod ends and protection pipes where possible. The fasteners must be fully tightened.

The vent hole in the cylinder of gas tension springs must absolutely remain open.

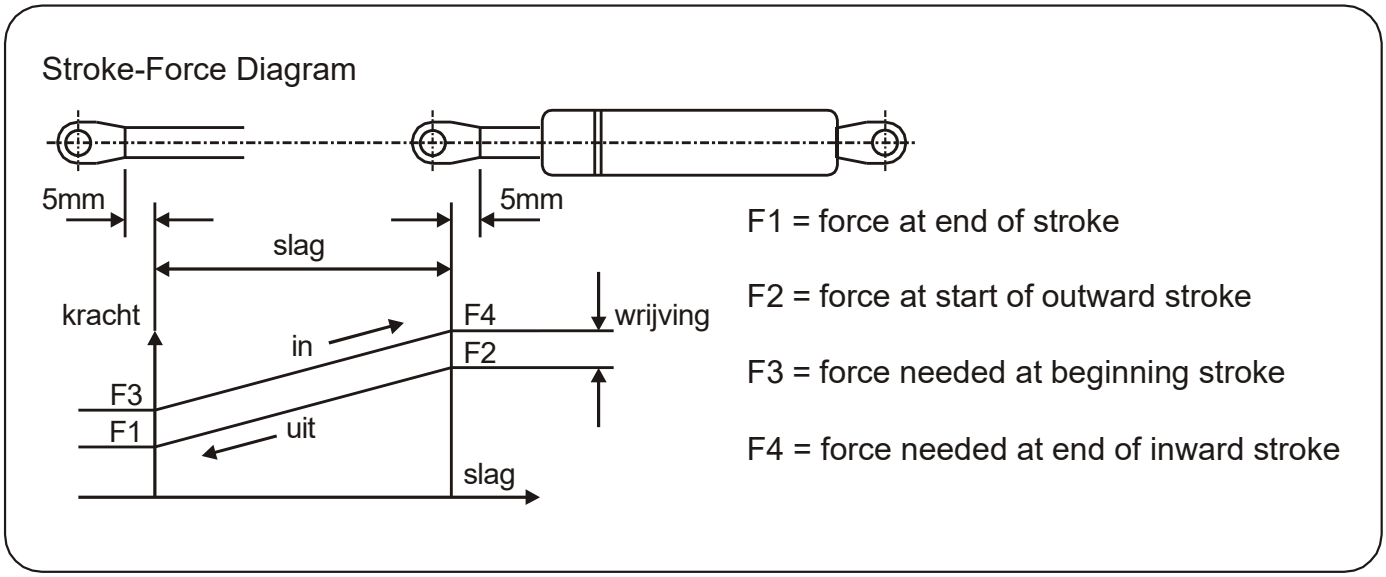
Gas tension springs may only be installed and removed in fully retracted condition. Do not use Loctite or similar to tighten the set screw in the base.

Prevent the piston rod and/or cylinder housing from kicking back without a load.
Gas springs must not be exposed to impact and/or vibration loads.

The piston rods of gas pressure springs should preferably be installed pointing downwards. With gas pull springs upwards !!!! Ask our advice for different installations.

The number of full strokes may not exceed 5 strokes (of max. 500 mm) per minute at a speed of maximum 300 mm per second.
In continuous use, a pressure loss of 15% may occur with an average of 30,000 strokes. The actual service life also depends on the stroke length and extension force.

The extension force F1 is measured at +20 degrees Celsius.
Per 10 degrees there is a deviation of +/- 3.4% pressure increase/decrease.



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General explanation gas springs

A gas spring is not a security product, i.e.:. if gas springs are used in places where danger and risk to persons and/or the environment can occur in the event of failure of the gas spring, additional protections must be installed.

A gas spring may not simply be used as an end stop, the gas springs may be loaded with a maximum of 25% extra force on top of the maximum extension or pulling force of the type of gas spring.

The seals in gas springs are not suitable for installations where the piston rod makes a rotating movement.

Gas springs may only be used in the aerospace industry after written permission from T-Technics BV.

Length tolerances of all gas springs: +/-2mm

Tolerances on filling forces

20 < F1 <50 +/- 10 Newton	750 < F1 < 1500 +/- 50 Newton
50 < F1 <250 +/- 20 Newton	1500 < F1 < 2500 +/- 100 Newton
250 < F1 <750 +/- 30 Newton	2500 < F1 < meer +/- 250 Newton

Special tolerances on filling force +/- 5 N possible at extra cost

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General explanation gas springs

If you order larger numbers of gas springs, your own item numbers can be applied to the gas springs. A wide range of mounting materials are available.

Stock management: At 20 degrees Celsius, filled gas springs may be stored horizontally for a maximum of 3 months. For longer periods, the gas springs must be stored with the piston rods down. Storage longer than 1 year should be avoided.

Warranty period: this is 2 years or 30,000 strokes (whichever comes first) after the delivery date and/or production/ref. number affixed to the gas spring. This data may therefore not be removed under penalty of loss of warranty claims and must remain legible.

The Re-filling of any gas spring is entirely at the expense and risk of the customer. No guarantee is given on this.

The original warranty period of the gas spring will not be extended as a result. Changes to the gas springs not made by us will result in loss of warranty.

Environmental protection: The gas used in the gas springs, nitrogen, is a natural component of our ambient air. Any pressure loss is therefore completely harmless.

The other parts of the gas springs, except for the used oil, are mainly made of steel, which can be recycled in the normal way. The used oil must be disposed of in the normal legal manner.

Scrapping gas springs: Gas springs are filled with a pressure between 20 and 250 bar and must be vented before scrapping.

For safety, proceed as follows:
Clamp the gas spring cylinder with the piston rod downwards slightly in a vise. Saw crosswise in cylinder at 40 mm from the bottom side of the gas spring.

Precautionary measures :

Always wear safety goggles.
Use a saw suitable for metal. Cover the saw blade with a cleaning cloth.
Stop sawing as soon as you hear a hissing sound.

The gas spring is completely depressurized when the piston rod can be moved by hand.

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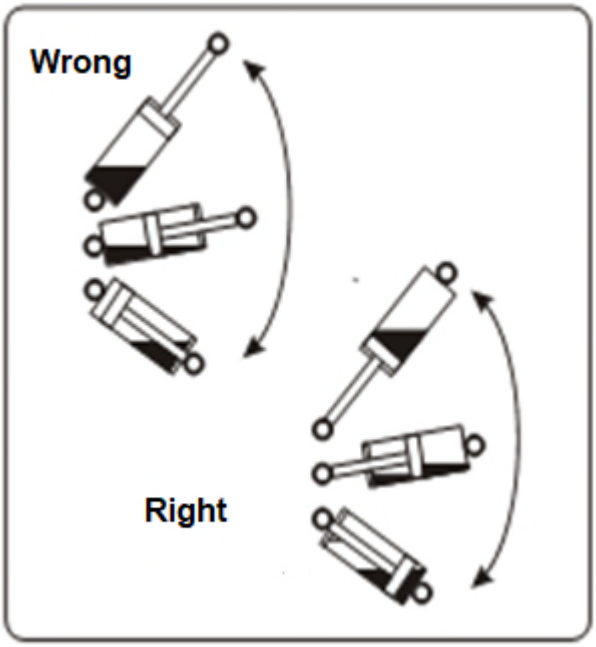
Mounting positions gas springs



Gas springs need to be kept free from lateral forces, the piston rods need to be kept free from damage, and dirt.
If the full stroke is used al amount of oil takes care of dampening the end of the stroke. To ensure the best life span and a good working gas spring it is preferred to mount them with the rod facing downwards

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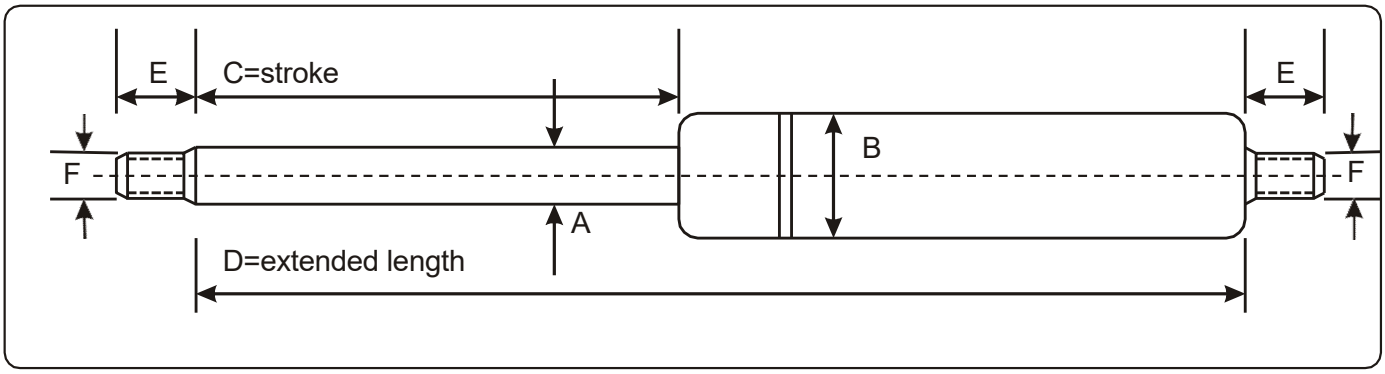
AIRAX gas springs type 6/15 - 8/20



Partnr.	type	A	B	C	D	E	F	Possible Force F1 from-to
563390				22	78			25-400 Newton
563400				40	115			25-400 Newton
563401				60	155			25-400 Newton
563402	6/15	6	15	80	195	10,5	M 6	25-400 Newton
563403				100	235			25-400 Newton
563404				120	275			25-400 Newton
563405				150	335			25-350 Newton
563439				150	345			25-350 Newton
588430				60	165			100-750 Newton
588431				80	205			100-750 Newton
588432				100	245			100-750 Newton
588433				120	285			100-750 Newton
588434	8/20	8	20	140	325	12,5	M 6	100-750 Newton
588435				160	365			100-750 Newton
588436				180	405			100-750 Newton
588437				200	445			100-700 Newton
588438				220	485			100-650 Newton
588439				250	545			100-600 Newton
588384				300	655			100-550 Newton

F1 = is measured at 5mm inward stroke

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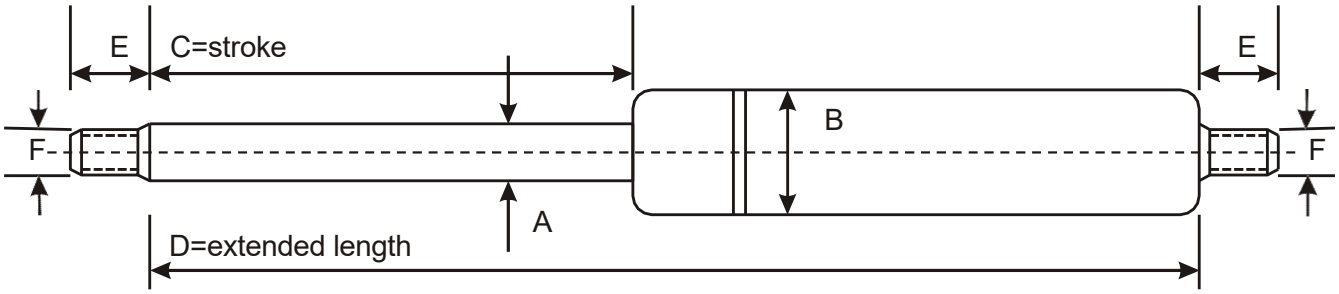
AIRAX gas springs type 10/22 -14/28



Partnr.	type	A	B	C	D	E	F	Possible Force F1 from-to
512420	10/22	10	22	100	255	12,5	M 8	150-1150 Newton
512421				150	355			150-1150 Newton
512422				200	455			150-1100 Newton
512423				250	555			150-1075 Newton
512424				300	655			150-1050 Newton
512425				350	755			150-1000 Newton
512426				400	855			150-0900 Newton
512427				500	1055			150-0800 Newton
540407	14/28	14	28	100	255	12,5	M 8	250-2500 Newton
540427				150	355			250-2500 Newton
540400				200	455			250-2500 Newton
540402				250	555			250-2500 Newton
540401				300	655			250-2500 Newton
540412				325	705			250-2500 Newton
540403				350	755			250-2500 Newton
540404				400	855			250-1900 Newton
540413				450	955			250-1900 Newton
540405				500	1055			250-1900 Newton

F1 = is measured at 5mm inward stroke

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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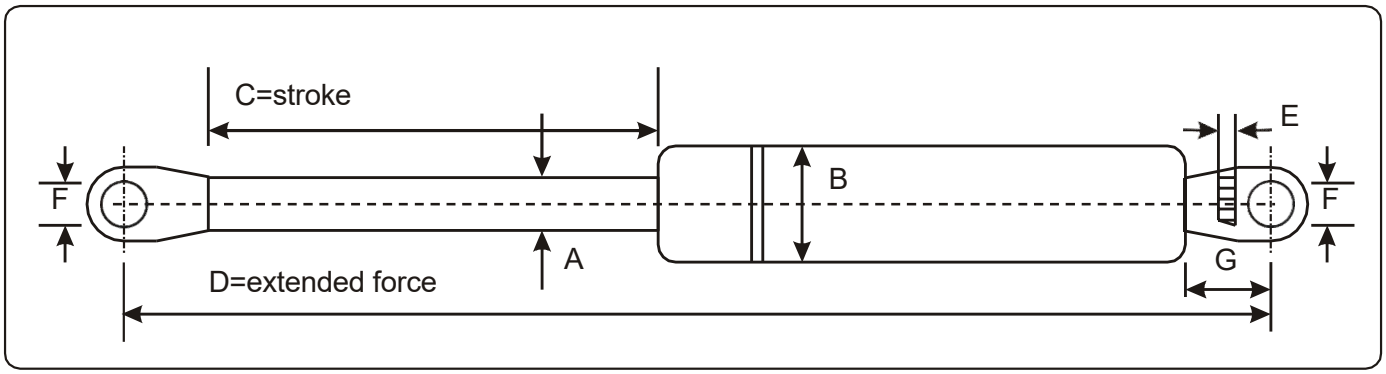
AIRAX gas springs type 6/15 - 8/20 - 10/22



Partnr.	type	A	B	C	D	E	F	G	Possible force F1 from- to
563500	6/15	6	15	20	94	3	6,5	13	25-400 Newton
563501				40	145				25-400 Newton
563502				60	185				25-400 Newton
563503				80	225				25-400 Newton
563504				100	265				25-400 Newton
563505				120	305				25-400 Newton
563506				150	365				25-350 Newton
588581	8/20	8	20	60	185	3	6,5	13	100-750 Newton
588530	8/20	8	20	60	205	5	8,5	14	100-750 Newton
588510				70	225				100-750 Newton
588531				80	245				100-750 Newton
588532				100	285				100-750 Newton
588533				120	325				100-750 Newton
588534				140	365				100-750 Newton
588535				160	405				100-750 Newton
588536				180	445				100-750 Newton
588537				200	485				100-700 Newton
588538				220	525				100-650 Newton
588539				250	585				100-600 Newton
588559				300	685				100-550 Newton
588502				450	985				100-500 Newton
512520	10/22	10	22	100	285	5	8,5	14	150-1150 Newton
512521				150	385				150-1150 Newton
512522				200	485				150-1100 Newton
512523				250	585				150-1075 Newton
512524				300	685				150-1050 Newton
512525				350	785				150-1000 Newton
512526				400	885				150-0900 Newton

F1 = is measured at 5mm inward stroke

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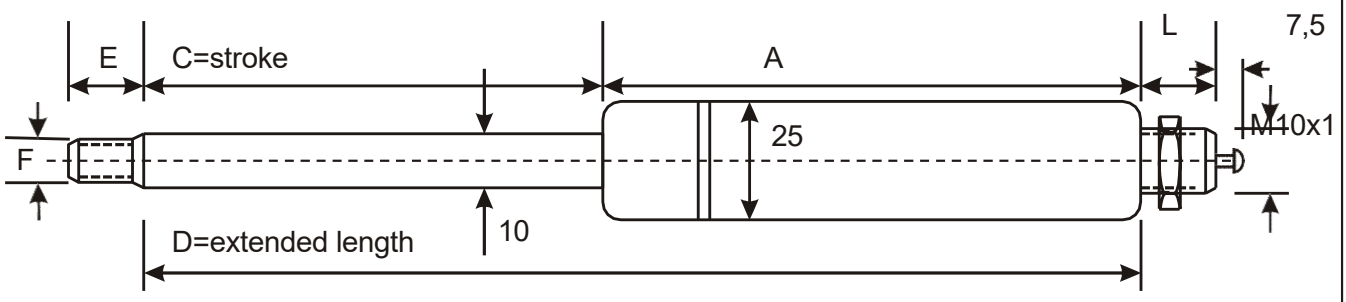
Spring-lockable gas springs type10/25



Part.nr	C	D	A	F	L	Possible force F1 from-to
500514	39	140	101	M 8	16	100-800 Newton

Special operating parts with handles are available from stock, see the page “operating items for lockable gas springs”.

F1 = is measured at 5mm inward stroke

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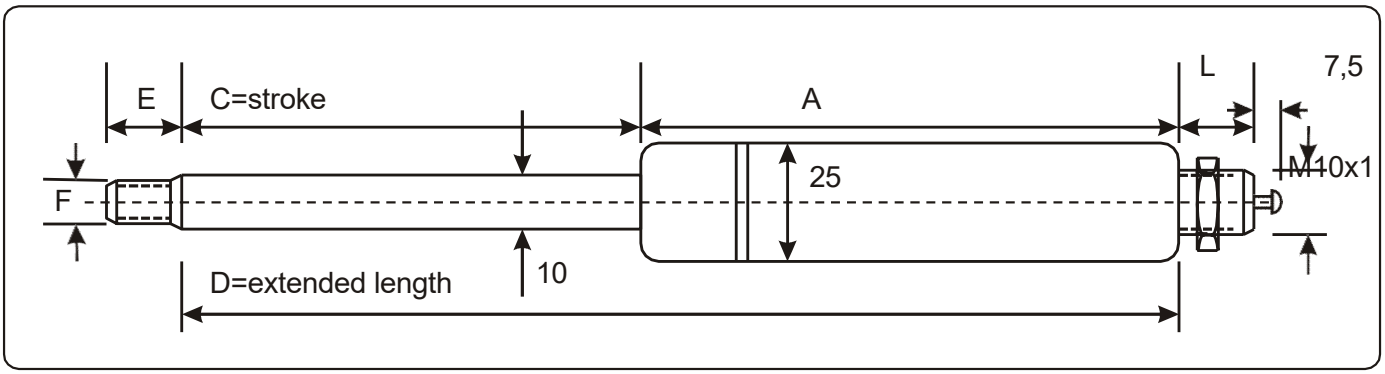
Semi-rigid lockable gas springs type10/25



Partnr.	C	D	A	F	L	Possible force f1 from-to
500507	47	197	150	M 8	20	100-800 Newton
500534	65	215	150	M 8	16	100-800 Newton
500522	100	256	156	M 8	16	100-800 Newton
500531	150	420	270	M 8	20	100-800 Newton
500555	200	543	343	M 8	20	100-800 Newton

These semi-rigid lockable gas springs are extremely suitable for, for example, the backs of chairs or sofas.

Special operating parts with handles are available from stock, see the page “operating items for lockable gas springs”.

F1 = is measured at 5mm inward stroke

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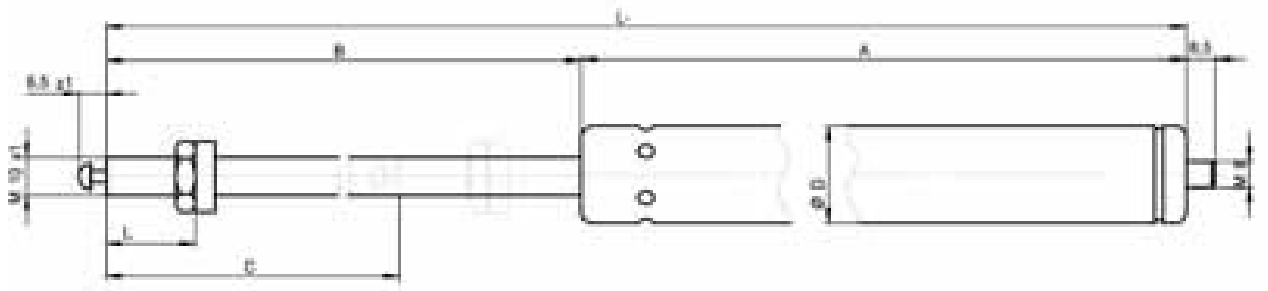
SUSPA rigid lockable gas springs



Partnr.	C	A	B	L	progression	D	Possible force f1 from-to
490010	100	227	119	359	1,40xF1	28	80-1000N
490020	200	386	219	618	1,46xF1	28	80-1000N
490030	300	550	319	882	1,58xF1	28	80-1000N

-Maximum locking force on pressure is 10,000N.
-Maximum locking force on pull is 4.8xF1 (maximum 7,000N).
-Exit speed is 0.09m/second.
-Release stroke is up to 3.5 mm.
-Install piston rod preferably pointing downwards.
-Maximum load in blocked condition in pressing direction is 10,000N.
-Maximum load in locked position in pull direction is 7,000N.
-Piston rod is hard chrome plated.
-Cylinder is painted black (RAL 9005).
-Corrosion resistance 120 hours according to DIN EN ISO 6270-2.
-Keep gas spring and piston rod free from damage and dirt.
-Keep the gas spring free from lateral forces.
- When scrapping gas springs, these must be pressure less.

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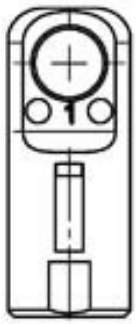
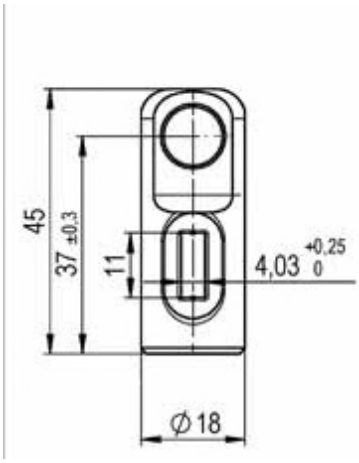
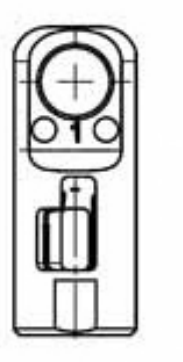
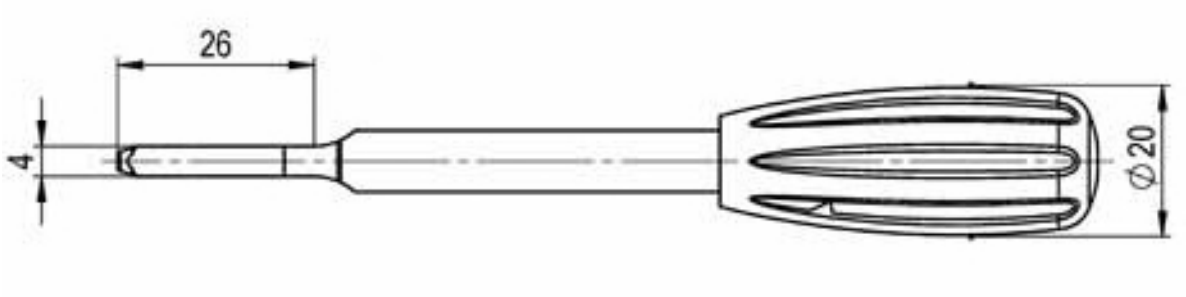


Controlhead
Partnumber: 491020



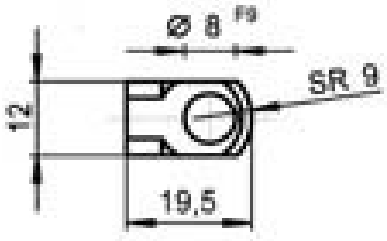


Controlhead lockable
Partnumber: 491030



Operatinghandle
Partnumber: 491200

Total length 130mm



Eyelet for springs 490010-20/30
Inner tread M8
Partnumber: 490500

Other fasteners such as clevises and/or ball joints, see the relevant pages.

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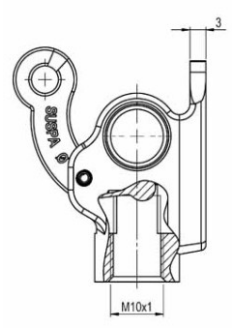
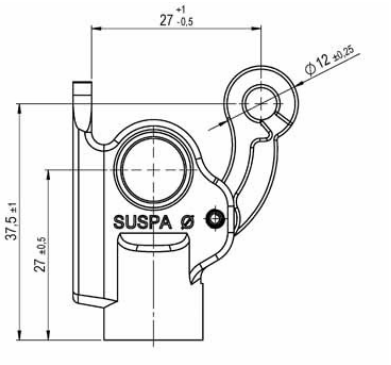


Controlhead angled

Partnumber: 491010



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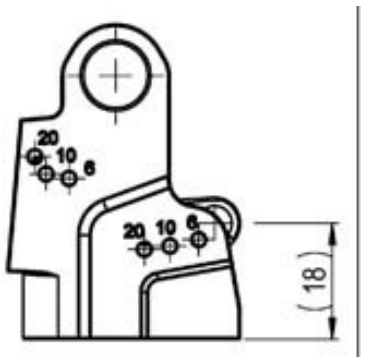
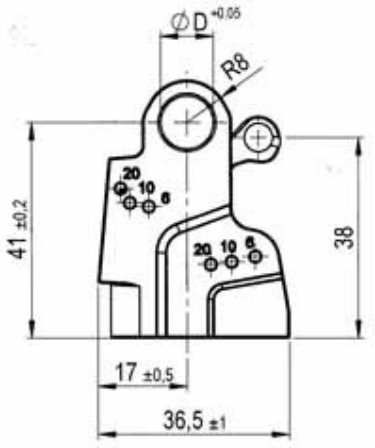
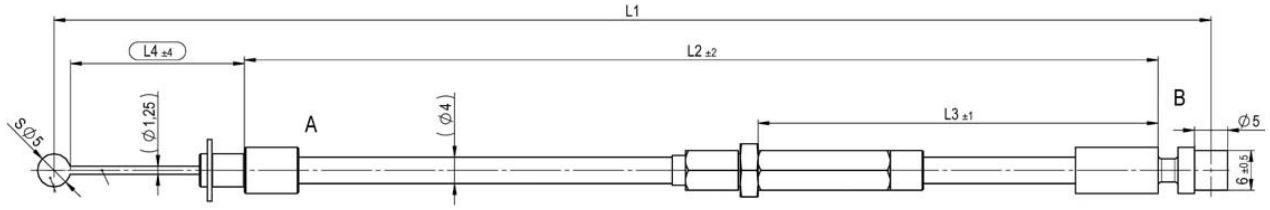


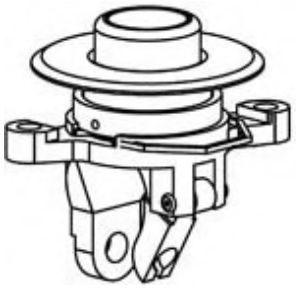
Controlhead
Partnumber: 491040



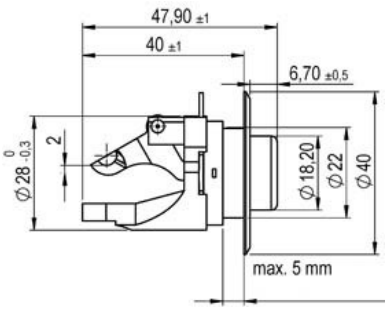


Bowdenkabel
Partnumber: 491400

L1=257 L2=200 L3=50 L4=46,5
Other lengths ask for availability



Pushbutton with tread
Partnumber: 491600



Pushbutton clampable
Partnumber: 491610

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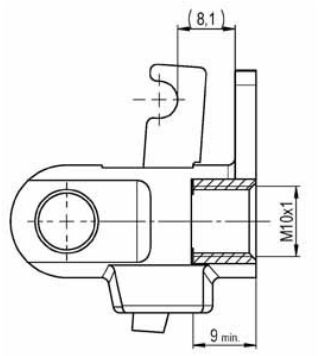
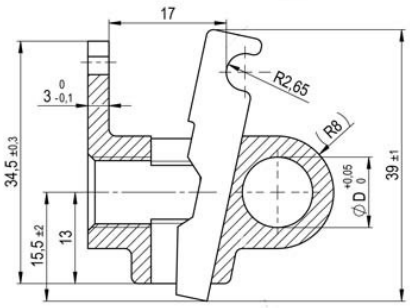
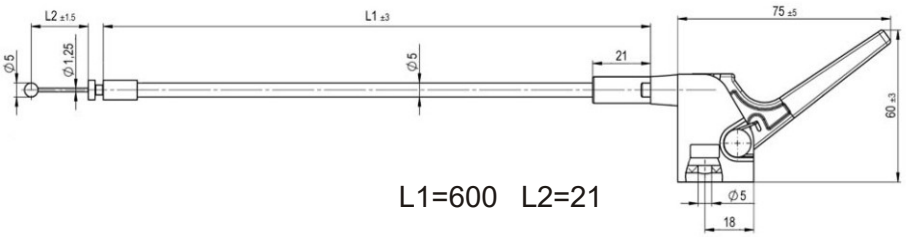


Controlhead
Partnr.: 491000

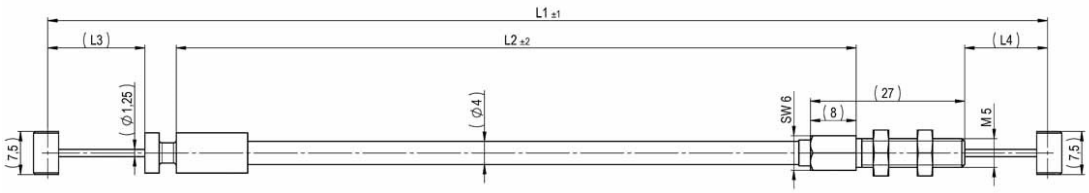


Bowdenkabel

Partnr. 491300

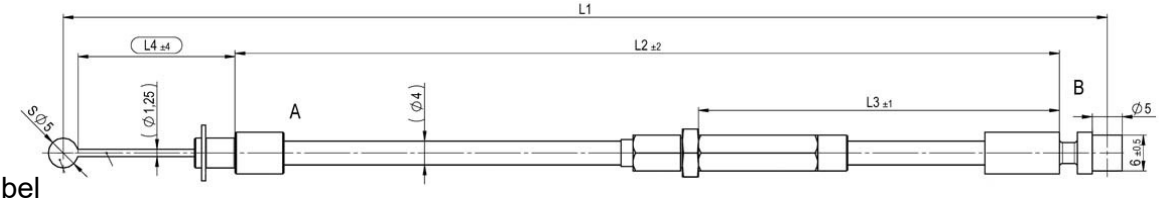


L1=600 L2=21



Bowdenkabel
Partnumber: 491340

L1=1009 L2=951 L3=17 L4=16,5



Bowdenkabel

Partnumber 491400

L1=257 L2=200 L3=500 L4=46.5

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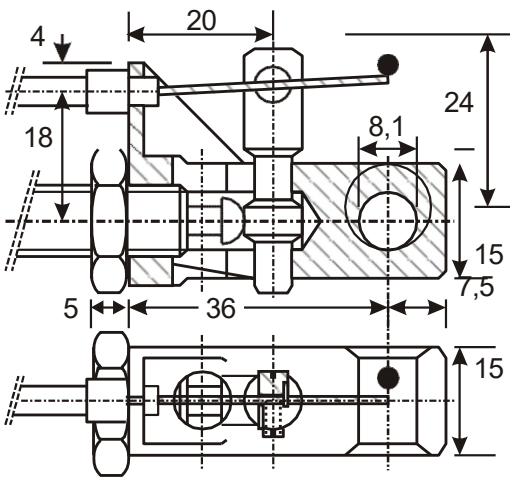

Controlhead For gas spring 10/25

:material: Zamak
:Innertread M 10x1
:Bore 8,1 mm

:Width 15 mm
:effective length 36+5 mm
:72480 as shown
Partnr.: :72482 with bore Ø 8,1 parallel to push/pullrod

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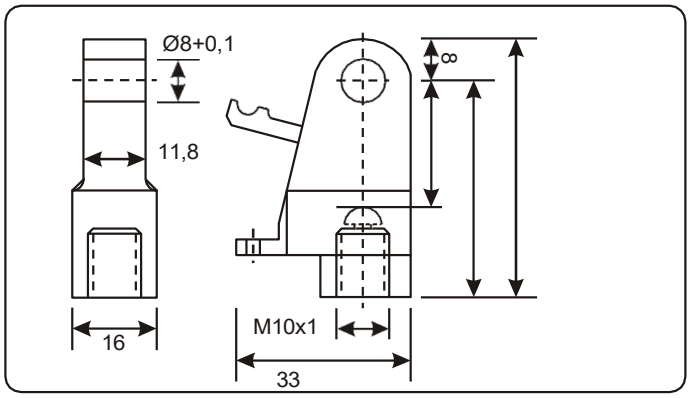
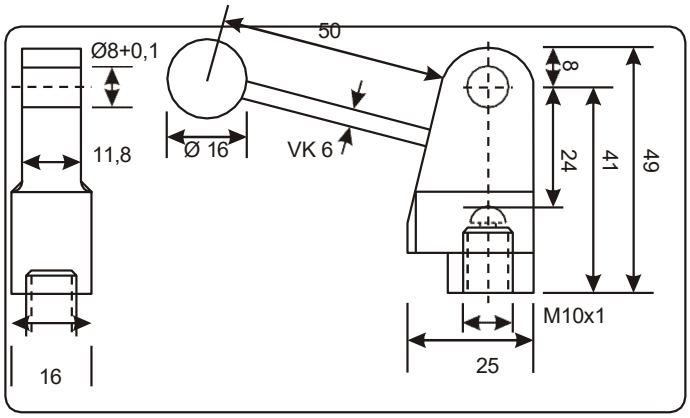


Controlhead : Zamak/steel

Partnumber	72.550	72.555
Stroke of cable	ca. 15 mm	ca. 23 mm
Stroke gas spring	max.1mm	max.2,5mm
Operating force	1% van F1	2% van F1
Ratio:	1:21	1:10



Controlhead : Zamak/steel

Stroke of lever	ca. 48 mm
Stroke gas spring valve	max. 2,5 mm

ratio1:20	bedienkracht 1% van F1	bestelnr. 72.560

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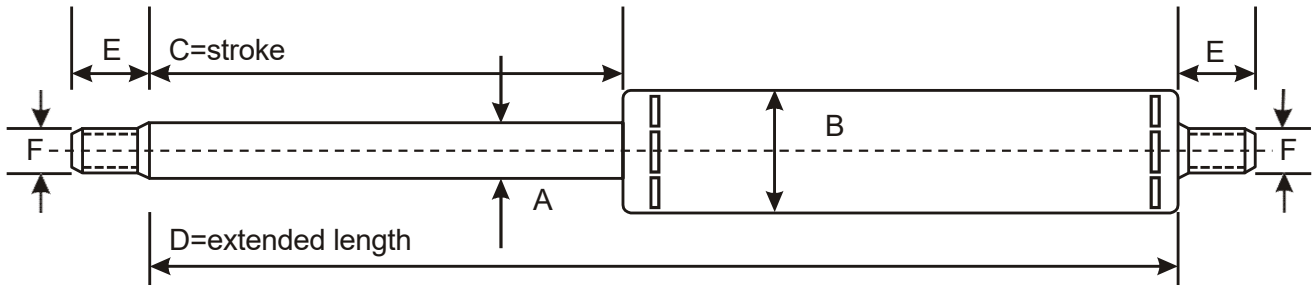

Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
590070				100	255			250-2000 Newton
590072				150	355			250-2000 Newton
590074				200	455			250-2000 Newton
590076	12/25	12	25	250	555	10	M 8	250-1900 Newton
590078				300	655			250-1800 Newton
590079				325	705			250-1800 Newton
590080				350	755			250-1700 Newton
590082				400	855			250-1600 Newton
590084				500	1055			250-1500 Newton

The piston rod is hard chrome plated and the cylinder housing is zinc plated.

These gas springs are equipped with a filling valve so that the extension force can be changed afterwards, both higher and lower.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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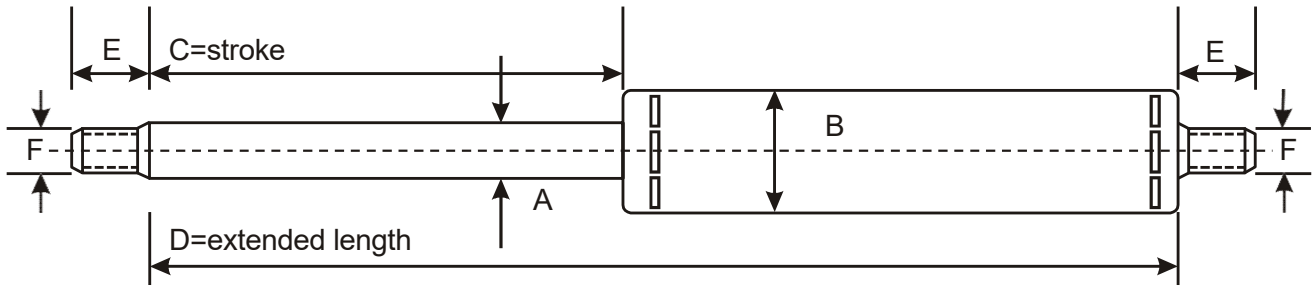

Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
590090				50	155			100-3300 Newton
590091				100	255			100-3200 Newton
590092	14/30	14	30	150	355	11	M 10	100-3100 Newton
590093				200	455			100-3000 Newton

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
These gas springs are equipped with a filling valve so that the extension force can be changed afterwards, both higher and lower.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages

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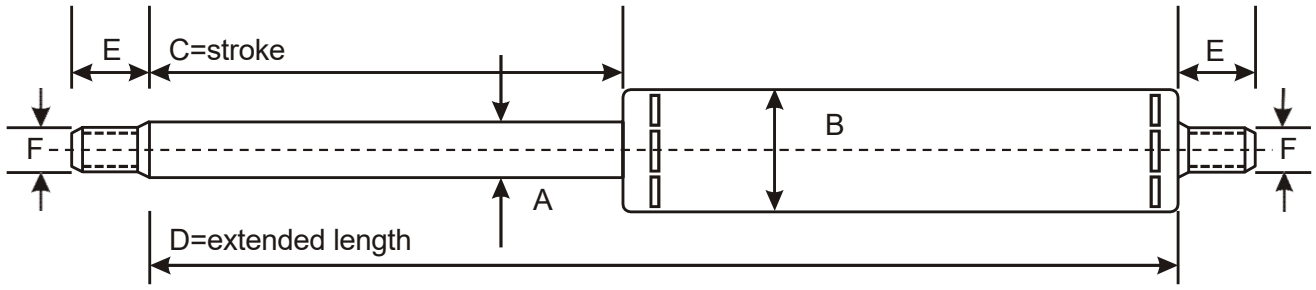

Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
590100				100	335			500-5500 Newton
590110				150	435			500-5500 Newton
590120				200	535			500-5500 Newton
590130				250	635			500-5500 Newton
590140				300	735			500-5500 Newton
590150	20/40	20	40	350	835	15	M 14	500-5000 Newton
590160				400	935			500-5000 Newton
590170				500	1135			500-5000 Newton
590180				600	1335			500-5000 Newton
590190				700	1535			500-5000 Newton
590200				800	1735			500-5000 Newton
590210				900	1935			500-5000 Newton
590220				1000	2135			500-5000 Newton

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
These gas springs are equipped with a filling valve so that the extension force can be changed afterwards, both higher and lower.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages

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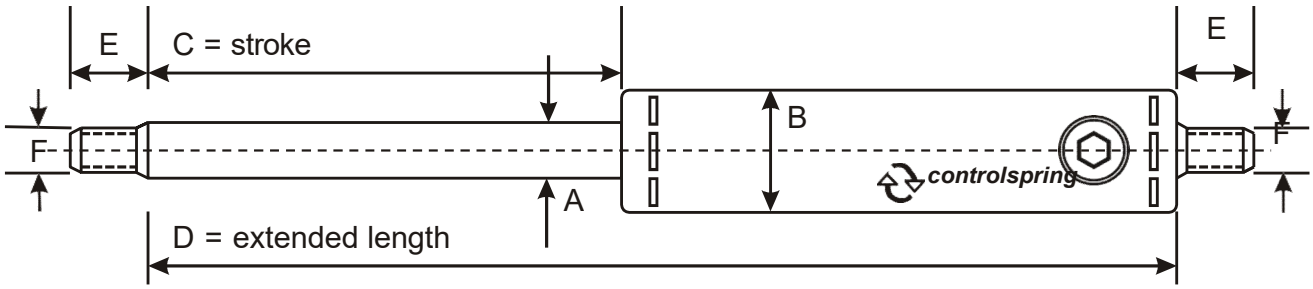

Partnr.	type	A	B	C	D	E	F	Max. force F1
593300				100	305			2500 Newton
593305				150	405			2500 Newton
593310				200	505			2500 Newton
593315				250	605			2500 Newton
593320				300	705			2500 Newton
593325	14/28	14	28	350	805	10	M 8	2000 Newton
593330				400	905			2000 Newton
593335				500	1105			2000 Newton

This type of gas spring is a further development of our force-releasing gas spring.
By gently turning the valve pin clockwise with an Allen key, a fixed amount of nitrogen escapes with each revolution. This prevents the gas spring suddenly becoming too weak. When using several gas springs and turning the valve pin the same number of times, the gas springs remain at the same pressure.
These gas springs can of course be refilled by us if the force has become too low.

Other lengths, maximum forces and connections on request. The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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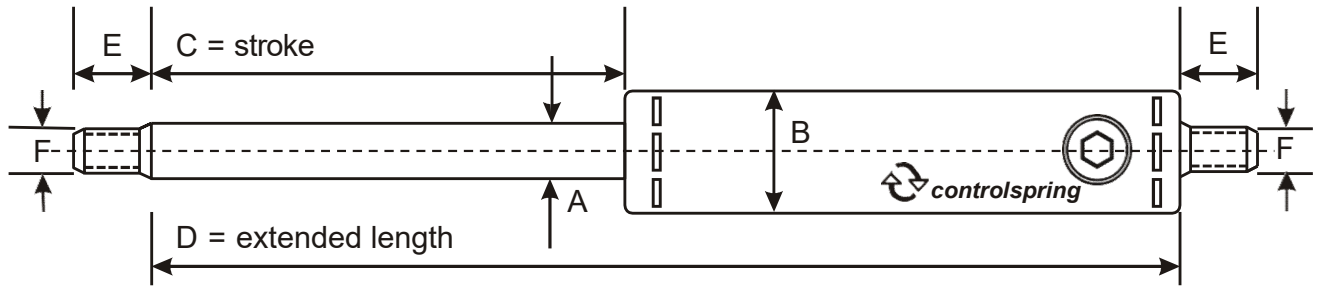

Partnr.	type	A	B	C	D	E	F	max. force F1
593400				100	350			5000 Newton
593405				150	450			5000 Newton
593410				200	550			5000 Newton
593415				250	650			5000 Newton
593420				300	750			5000 Newton
593425	20/40	20	40	350	850	15	M 14	4500 Newton
593430				400	950			4500 Newton
593435				500	1150			4500 Newton
593440				600	1350			4500 Newton
593445				700	1550			4500 Newton
593450				800	1750			4500 Newton
593455				900	1950			4500 Newton
593460				1000	2150			4500 Newton

This type of gas spring is a further development of our force-releasing gas spring.
By gently turning the valve pin clockwise with an Allen key, a fixed amount of nitrogen escapes with each revolution. This prevents the gas spring suddenly becoming too weak. When using several gas springs and turning the valve pin the same number of times, the gas springs remain at the same pressure.
These gas springs can of course be refilled by us if the force has become too low.

Other lengths, maximum forces and connections on request. The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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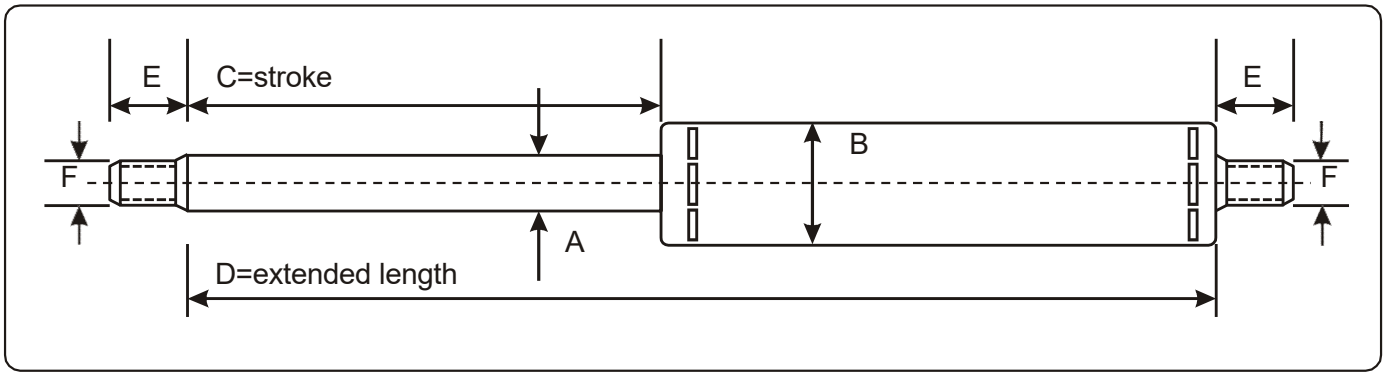
Gas springs custom made steel zinc plated



Part.nr	type	Piston-rod A 1*	Cilnder tube B 1*	STD price to stroke C= 2*	F x E 3*	D = minimum 2xC + ... mm 4*	Possible force f1 from 5*
999000	4/11	4	12	100	M4x6	+ 40 mm	25-150 Newton
999001	6/15	6	15	150	M6x10	+ 50 mm	25-400 Newton
999002	8/19	8	19	250	M8x10	+ 55 mm	100-750 Newton
999003	10/23	10	23	500	M8x10	+ 55 mm	250-1000 Newton
999004	10/28	10	28	500	M8x10	+ 55 mm	250-1000 Newton
999008	12/25	12	25	500	M8x10	+ 55 mm	250-2000 Newton
999005	14/28	14	28	500	M8x10	+ 55 mm	250-2500 Newton
999011	14/30	14	30	500	M10x11	+ 55 mm	250-3300 Newton
999013	14/40	14	40	500	M8/M14	+ 135 mm	250-2500 Newton
999010	20/35	20	35	500	M14x15	+ 135 mm	250-5000 Newton
999006	20/40	20	40	500	M14x15	+ 135 mm	250-5000 Newton
999009	30/60	30	60	500	M14x20	+ 135 mm	500-10000 Newton
999012	40/100	40	100	500	M16x20	+ 135 mm	500-17500 Newton

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
1* Other combinations in diameters are possible due to different force progressiveness.
2* See the price list for additional costs for larger stroke lengths.
3* Other threads are possible.
4* Other ratios, e.g. short stroke C and longer cylinder B are possible.
5* Maximum extension force depends on chosen stroke C.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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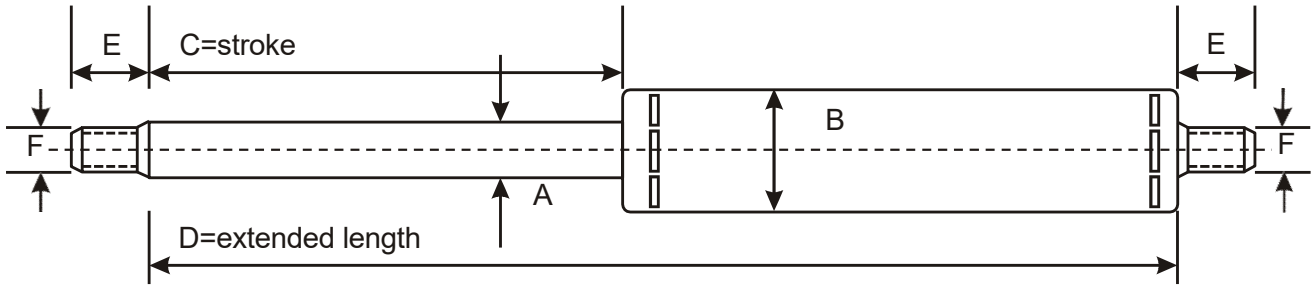
Gas springs type 4/11 Stainless steel



Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
591010				10	60			25-150 Newton
591015				20	80			25-150 Newton
591020				30	100			25-150 Newton
591025				40	120			25-150 Newton
591030				50	140			25-150 Newton
591035	4/11	4	11	60	160	6	M 4	25-125 Newton
591040				70	180			25-125 Newton
591045				80	200			25-100 Newton
591050				90	220			25-100 Newton
591055				100	240			25-100 Newton

The piston rod is made of AISI 316 - hard chrome-plated and the cylinder tube is made of Stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze.
These gas springs are equipped with a filling valve so that the extension force can be increased by us Afterwards (not lowered!)

F1 = the extension force measured when the piston rod is retracted 5 mm.

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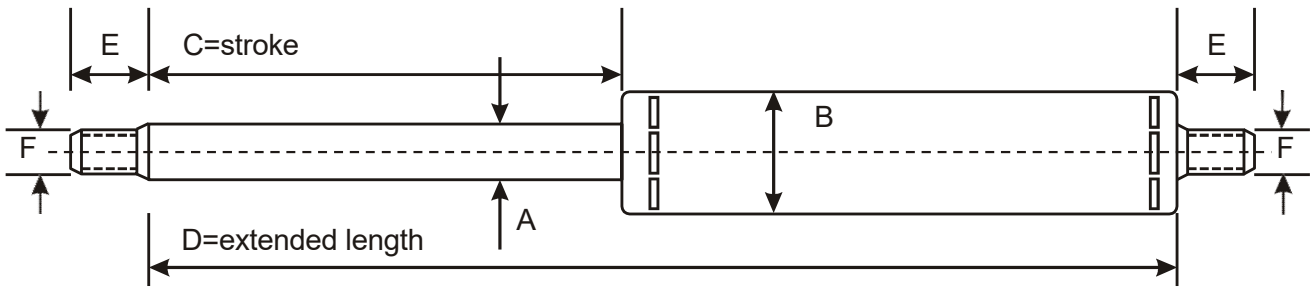
Gas springs type 6/15 - 8/20 Stainless steel



Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
591100	6/15	6	15	25	106	7.5	M 6	25-400 Newton
591110				50	156			25-400 Newton
591120				75	206			25-375 Newton
591130				100	256			25-350 Newton
591140				125	306			25-325 Newton
591150				150	356			25-300 Newton
591500	8/20	8	20	25	115	10	M 8	100-750 Newton
591510				50	165			100-750 Newton
591520				75	215			100-700 Newton
591530				100	265			100-650 Newton
591540				150	365			100-600 Newton
591550				200	465			100-550 Newton
591560				250	565			100-500 Newton

The piston rod is made of AISI 316 - hard chrome-plated and the cylinder tube is made of Stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. These gas springs are equipped with a filling valve so that the extension force can be lowered or increased by us afterwards

F1 = the extension force measured when the piston rod is retracted 5 mm.

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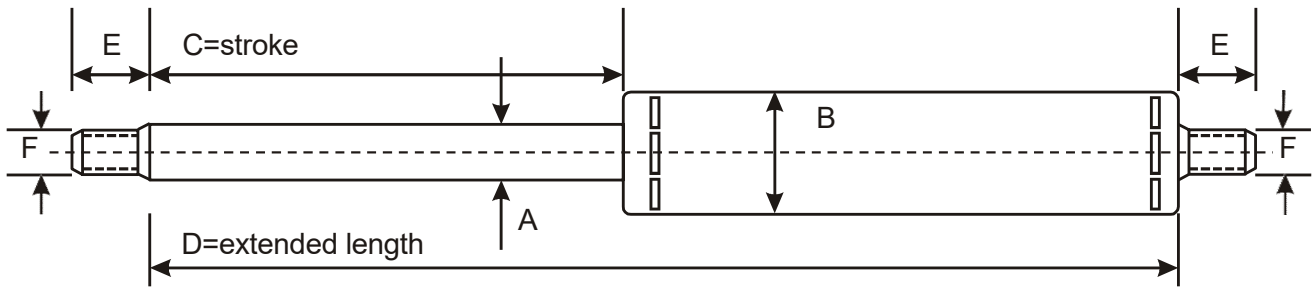
Gas springs type 10/23 - 14/28 Stainless steel



Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
592100	10/23	10	23	100	265	10	M 8	150-1200 Newton
592110				150	365			150-1200 Newton
592120				200	465			150-1000 Newton
592130				250	565			150-1000 Newton
592140				300	665			150-1000 Newton
592150				350	765			150-0800 Newton
592160				400	865			150-0800 Newton
592170				500	1065			150-0800 Newton
592500	14/28	14	28	100	265	10	M 8	250-2500 Newton
592510				150	365			250-2500 Newton
592520				200	465			250-2500 Newton
592530				250	565			250-2500 Newton
592540				300	665			250-2500 Newton
592550				350	765			250-2000 Newton
592560				400	865			250-2000 Newton
592565				450	965			250-2000 Newton
592570				500	1065			250-2000 Newton

The piston rod is made of AISI 316 - hard chrome-plated and the cylinder tube is made of Stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. These gas springs are equipped with a filling valve so that the extension force can be lowered or increased by us afterwards

F1 = the extension force measured when the piston rod is retracted 5 mm.

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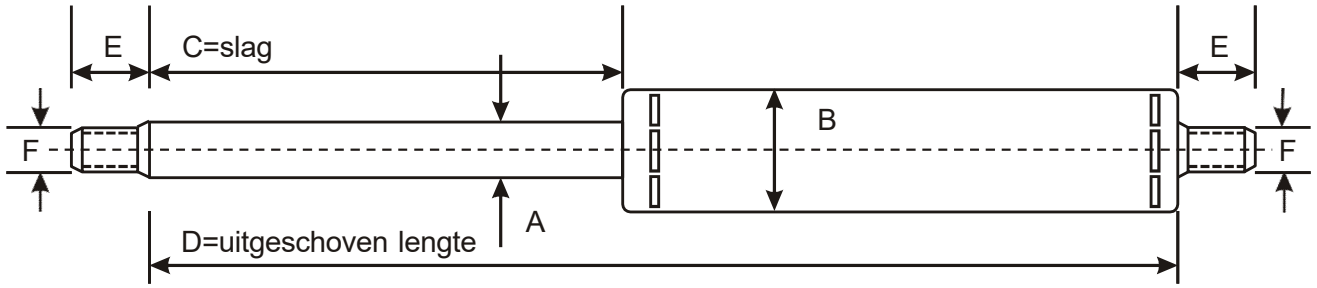

Partnr.	type	A	B	C	D	E	F	Possible force F1 from-to
593100				100	335			500-5000 Newton
593110				150	435			500-5000 Newton
593120				200	535			500-5000 Newton
593130				250	635			500-5000 Newton
593140				300	735			500-5000 Newton
593150				350	835			500-5000 Newton
593160	20/42	20	42	400	935	15	M 14	500-4000 Newton
593170				500	1135			500-3500 Newton
593180				600	1335			500-3000 Newton
593190				700	1535			500-2800 Newton
593200				800	1735			500-2700 Newton
593210				900	1935			500-2600 Newton
593220				1000	2135			500-2500 Newton

The piston rod is made of AISI 316 - hard chrome-plated and the cylinder tube is made of Stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. These gas springs are equipped with a filling valve so that the extension force can be lowered or increased by us afterwards

F1 = the extension force measured when the piston rod is retracted 5 mm.

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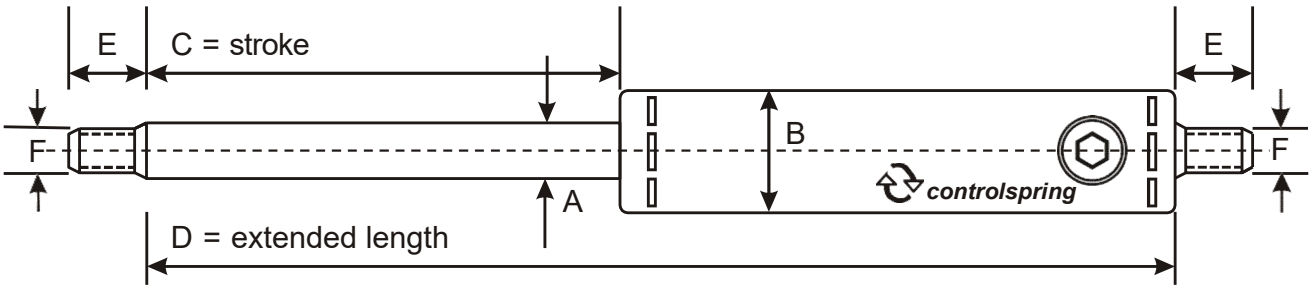

Partnr.	type	A	B	C	D	E	F	Max. force F1
593500				100	305			2500 Newton
593505				150	405			2500 Newton
593510				200	505			2500 Newton
593515				250	605			2500 Newton
593520				300	705			2500 Newton
593525	14/28	14	28	350	805	10	M 8	2000 Newton
593530				400	905			2000 Newton
593535				500	1105			2000 Newton

This type of gas spring is a further development of our force-releasing gas spring.
By gently turning the valve pin clockwise with an Allen key, a fixed amount of nitrogen escapes with each revolution. This prevents the gas spring suddenly becoming too weak. When using several gas springs and turning the valve pin the same number of times, the gas springs remain at the same pressure.
These gas springs can of course be refilled by us if the force has become too low.

Other lengths, maximum forces and connections on request. The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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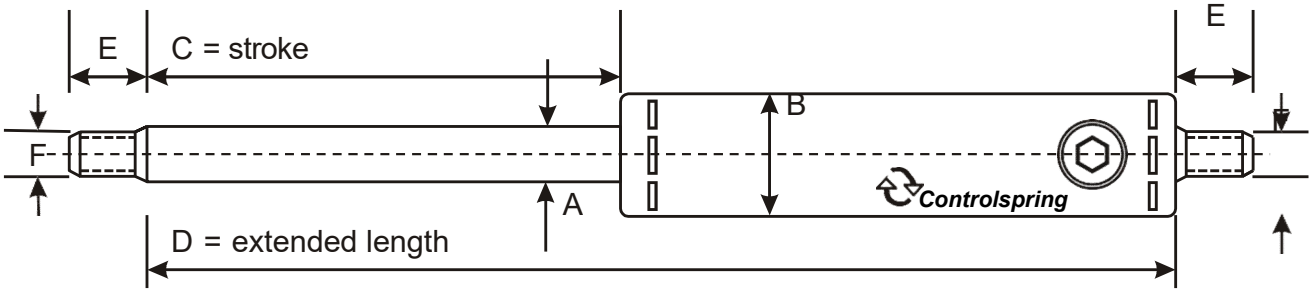

Partnr.	type	A	B	C	D	E	F	Max. force F1
593600				100	350			5000 Newton
593605				150	450			5000 Newton
593610				200	550			5000 Newton
593615				250	650			5000 Newton
593620				300	750			5000 Newton
593625	20/42	20	42	350	850	15	M 14	4500 Newton
593630				400	950			4000 Newton
593635				500	1150			3500 Newton
593640				600	1350			3000 Newton
593645				700	1550			2800 Newton
593650				800	1750			2700 Newton
593655				900	1950			2600 Newton
593660				1000	2150			2500 Newton

This type of gas spring is a further development of our force-releasing gas spring.
By gently turning the valve pin clockwise with an Allen key, a fixed amount of nitrogen escapes with each revolution. This prevents the gas spring suddenly becoming too weak. When using several gas springs and turning the valve pin the same number of times, the gas springs remain at the same pressure.
These gas springs can of course be refilled by us if the force has become too low.

Other lengths, maximum forces and connections on request. The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
F1 = the extension force measured when the piston rod is retracted 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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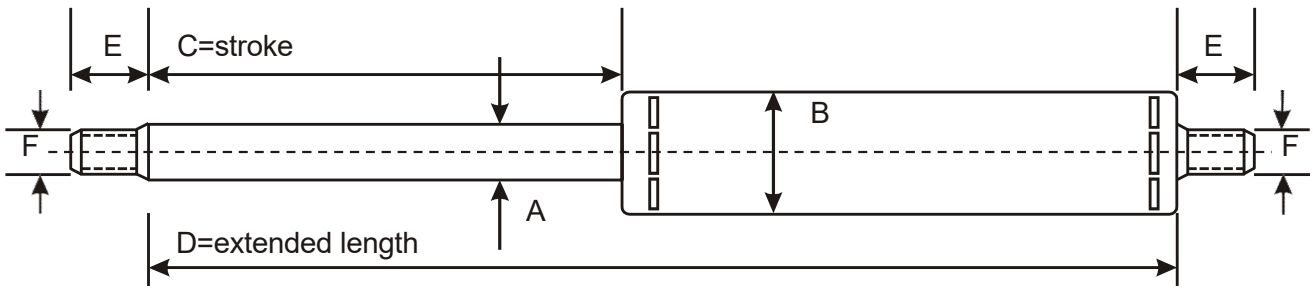
Stainless steel gas springs custom made



Parttnr.	type	A 1*	B 1*	std price to stroke C= 2*	F x E 3*	D=minimal 2xC + ... mm 4*	Possible force F1 from to 5*
999190	4/11	4	12	100	M4x6	+ 40 mm	25-150 Newton
999200	6/15	6	15	150	M6x7.5	+ 56 mm	25-400 Newton
999210	8/20	8	20	250	M8x10	+ 65 mm	100-750 Newton
999220	10/23	10	23	400	M8x10	+ 65 mm	150-1150 Newton
999230	14/28	14	28	500	M8x10	+ 65 mm	250-2500 Newton
999233	14/30	14	30	500	M8x10	+ 65 mm	250-3000 Newton
999235	14/42	14	42	500	M14x15	+ 135 mm	250-2500 Newton
999240	20/42	20	42	500	M14x15	+ 135 mm	250-5000 Newton

The Stainless steel 316 piston rod is hard chrome plated and the cylinder K320 Stainless steel 316.
1* Other combinations in diameters are possible due to different force progressiveness.
2* See the price list for additional costs for larger stroke lengths.
3* Other threads are possible.
4* Other ratios, e.g. short stroke C and longer cylinder B are possible.
5* Maximum extension force depends on chosen stroke C.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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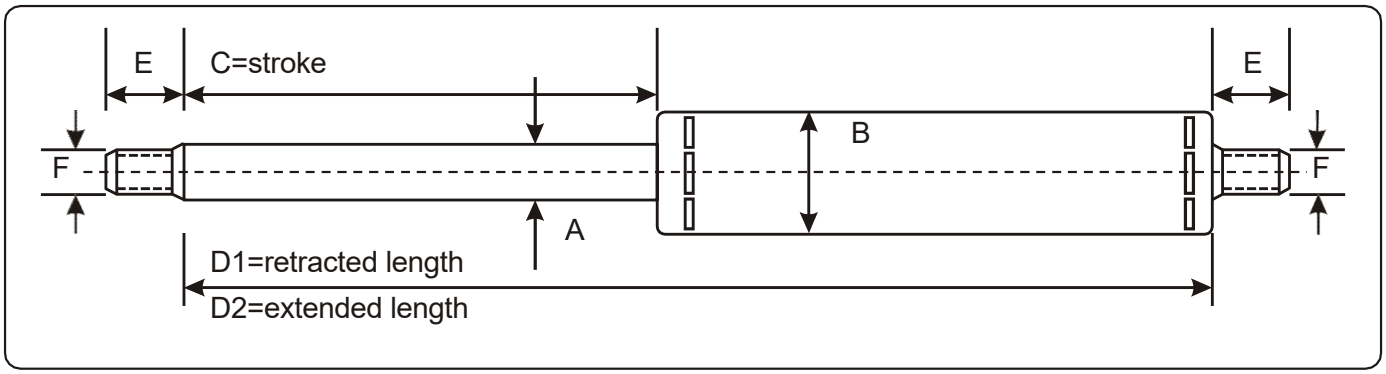
Gas pull springs type 6/19



Partnr.	type	A	B	C	length in Out D1	D2	E	F	Possible force retracted from-to
594000				25	110	135			50-750 Newton
594010				50	135	185			50-750 Newton
594020				75	160	235			50-750 Newton
594030	6/19	6	19	100	185	285	10	M 6	50-750 Newton
594040				150	235	385			50-600 Newton
594050				200	285	485			50-600 Newton
594060				250	335	585			50-600 Newton

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
Other stroke lengths see page G39.
These gas springs are equipped with a filling valve so that the extension force can be increased by us afterwards. (not lowered!)
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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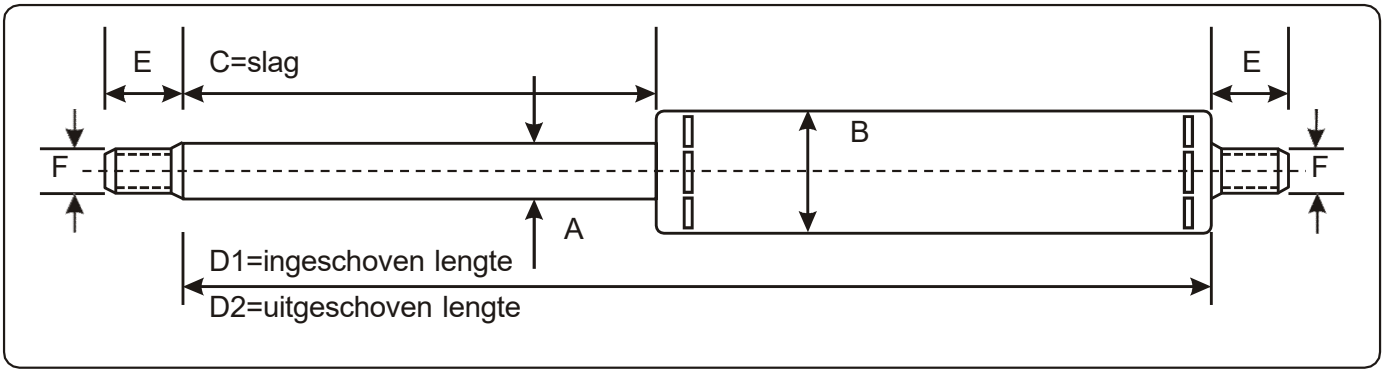
Gas pull springs type 8/23 - 10/28



Partnr.	type	A	B	C	length in D1	length uit D2	E	F	Possible force f1 from-to
594100				25	110	135			100-1000 Newton
594110				50	135	185			100-1000 Newton
594120				75	160	235			100-1000 Newton
594130	8/23	8	23	100	185	285	10	M 8	100-1000 Newton
594140				150	235	385			100-1000 Newton
594150				200	285	485			100-1000 Newton
594160				250	335	585			100-1000 Newton
594170				300	385	685			100-1000 Newton
594180				350	435	785			100-750 Newton
594190				400	485	885			100-750 Newton
594200				500	585	1085			100-750 Newton
594500				100	185	285			150-1750 Newton
594510				150	235	385			150-1750 Newton
594520				200	285	485			150-1750 Newton
594530	10/28	10	28	250	335	585	10	M 8	150-1750 Newton
594540				300	385	685			150-1750 Newton
594550				350	435	785			150-1500 Newton
594560				400	485	885			150-1500 Newton
594570				500	585	1085			150-1500 Newton

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
Other stroke lengths see page G39.
These gas springs are equipped with a filling valve so that the extension force can be increased by us afterwards. (not lowered!)
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.
For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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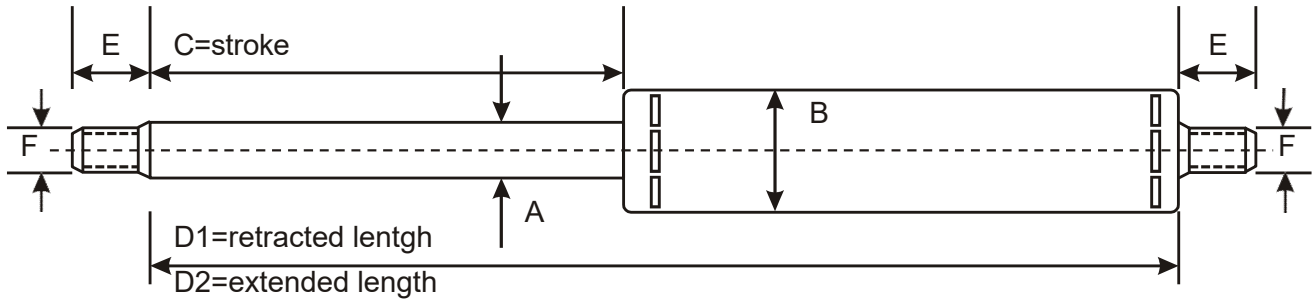
Gas pull springs type 14/40



Partnr.	type	A	B	C	length in D1	length uit D2	E	F	Possible force F1 from/to
595100				100	185	285			250-4000 Newton
595110				150	235	385			250-4000 Newton
595120				200	285	485			250-4000 Newton
595130				250	335	585			250-4000 Newton
595140				300	385	685			250-4000 Newton
595150				350	435	785			250-I.O. Newton
595160	14/40	14	40	400	485	885	15	M 10	250-I.O. Newton
595170				500	585	1085			250-I.O. Newton
595180				600	685	1285			250-I.O Newton
595190				700	785	1485			250-I.O Newton
595200				800	885	1685			250-I.O Newton
595210				900	985	1885			250-I.O Newton
595220				1000	1085	2085			250-I.O Newton

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
Other stroke lengths see page G39.
These gas springs are equipped with a filling valve so that the extension force can be increased by us afterwards. (not lowered!)
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.
For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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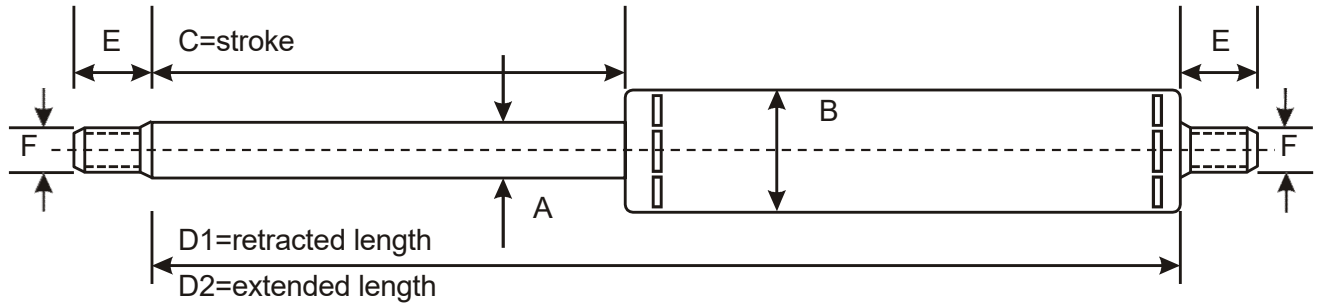
Gas pull springs customized



Partnr.	type	A	B	Std price to stroke C=	F x E	D1 = minimal (retracted) C + ... mm	Possible force F1 from/to
999495	6/19	6	19	250mm	M6x10	+ 85 mm	50-750 Newton
999500	8/23**	8	23	500mm	M8x10	+ 85 mm	100-1000 Newton
999505	10/28**	10	28	500mm	M8x10	+ 85 mm	150-1750 Newton
999510	14/40**	14	40	1000mm	M10x15	+ 85 mm	250-4000 Newton
999513	20/60**	20	60	1000mm	M14x20	+ 162 mm	250-5500 Newton

999496	6/19	meerprijs per 50 mm slag
999501	8/23	meerprijs per 50 mm slag
999506	10/28	meerprijs per 50 mm slag
999511	14/40	meerprijs per 50 mm slag
999514	20/60	meerprijs per 50 mm slag

The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
Other stroke lengths see page G39.
These gas springs are equipped with a filling valve so that the extension force can be increased by us afterwards. (not lowered!)
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.
For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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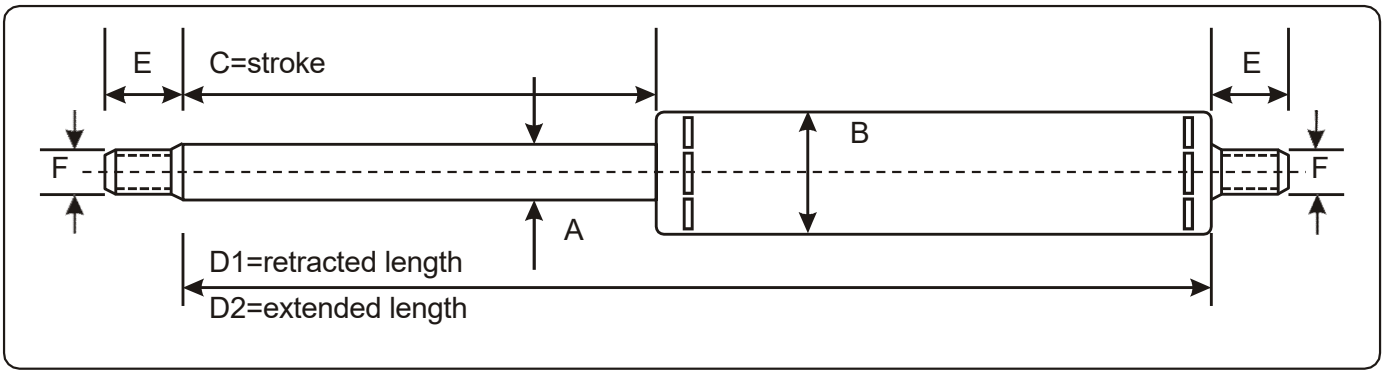
Gas pull springs with damping 6/23 - 14/40



Partnr.	type	A	B	Std price to stroke C=	F x E	D1 = minimal (retracted) 2xC + ... mm	max. force F1	incl. progres-sion
595310	6/23	6/10	23	250mm	M6x10	2xC+100	750N	975N
595320	10/28	10/14	28	500mm	M8x10	2xC+100	1200N	2200N
595330	14/40	14/20	40	500mm	M10x15	2xC+110	2500N	3600N

	Extra charge per 50 mm stroke above std
595.311	6/23
595.321	10/28
595.331	14/40

These gas tension springs have an excellent final damping which can be determined in advance in consultation !!
Other types in connection with progressivity, etc. are available in consultation.
The piston rod is hard chrome plated and the cylinder barrel is zinc plated.
The piston rod guide is equipped with a dirt scraper.
These gas springs are equipped with a filling valve so that the extension force can be increased by us afterwards, but not decreased!
F1 = the tractive force measured with the piston rod extended 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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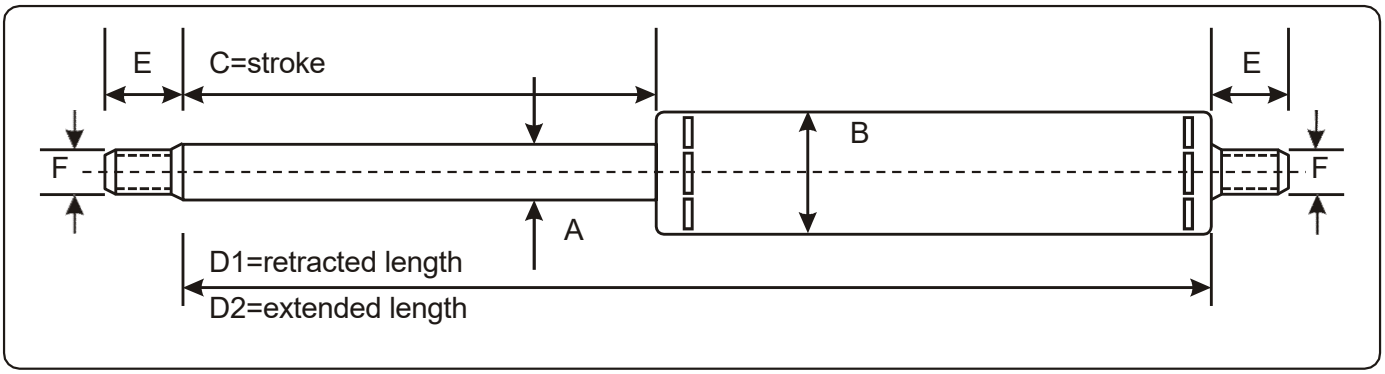
Gas pull springs type 6/20 Stainless steel



Partnr.	type	A	B	C	length in D1	length uit D2	E	F	Possible force F1 from/to
595400				25	110	135			50-750 Newton
595410				50	135	185			50-750 Newton
595420				75	160	235			50-750 Newton
595430	6/18	6	18	100	185	285	10	M 6	50-750 Newton
595440				150	235	385			50-600 Newton
595450				200	285	485			50-500 Newton
595460				250	335	585			50-500 Newton

The piston rod is made of AISI 316 or AISI 431 hard chrome-plated and the cylinder tube of stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. Other stroke lengths, see page G44.

These gas springs are equipped with a filling valve so that the extension force can Be increased by us afterwards, but not decreased!
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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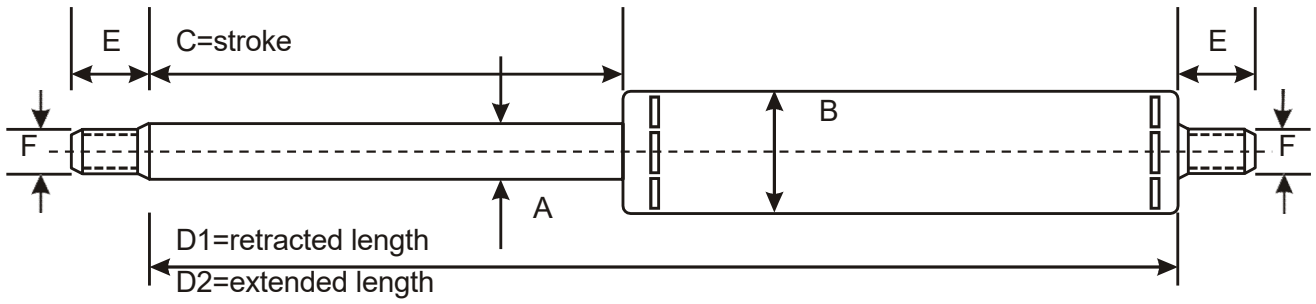
Gas pull springs type 8/23 - 10/28 Stainless steel



Partnr.	type	A	B	C	length in D1	length uit D2	E	F	Possible force F1 From/to
595500				25	110	135			100-1000 Newton
595510				50	135	185			100-1000 Newton
595520				75	160	235			100-1000 Newton
595530	8/23	8	23	100	185	285	10	M 8	100-1000 Newton
595540				150	235	385			100-1000 Newton
595550				200	285	485			100-1000 Newton
595560				250	335	585			100-1000 Newton
595570				300	385	685			100-1000 Newton
595580				350	435	785			100-750 Newton
595590				400	485	885			100-750 Newton
595600				500	585	1085			100-750 Newton
596100				100	185	285			150-1500 Newton
596110				150	235	385			150-1500 Newton
596120				200	285	485			150-1500 Newton
596130	10/28	10	28	250	335	585	10	M 8	150-1500 Newton
596140				300	385	685			150-1500 Newton
596150				350	435	785			150-1500 Newton
596160				400	485	885			150-1500 Newton
596170				500	585	1085			150-1500 Newton

The piston rod is made of AISI 316 or AISI 431 hard chrome-plated and the cylinder tube of stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. Other stroke lengths, see page G44.
These gas springs are equipped with a filling valve so that the extension force can Be increased by us afterwards, but not decreased!
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.
For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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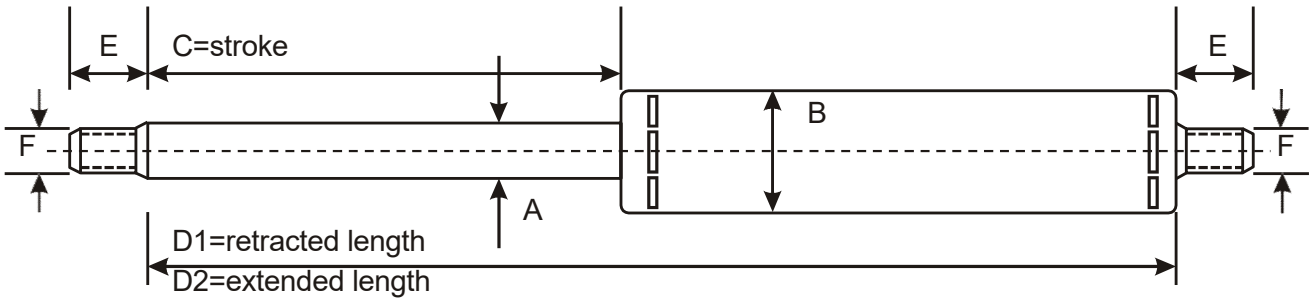
Gas Pull springs type 14/42 Stainless steel



Partnr.	type	A	B	C	length in D1	length uit D2	E	F	Possible force F1 from/to
596500				100	185	285			250-4000 Newton
596510				150	235	385			250-4000 Newton
596520				200	285	485			250-4000 Newton
596530				250	335	585			250-4000 Newton
596540				300	385	685			250-4000 Newton
596550				350	435	785			250-I.O. Newton
596560	14/42	14	42	400	485	885	15	M 10	250-I.O. Newton
596570				500	585	1085			250-I.O. Newton
596580				600	685	1285			250-I.O. Newton
596590				700	785	1485			250-I.O. Newton
596600				800	885	1685			250-I.O. Newton
596610				900	985	1885			250-I.O. Newton
596620				1000	1085	2085			250-I.O. Newton

The piston rod is made of AISI 316 or AISI 431 hard chrome-plated and the cylinder tube of stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. Other stroke lengths, see page G44.
These gas springs are equipped with a filling valve so that the extension force can Be increased by us afterwards, but not decreased!
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.
For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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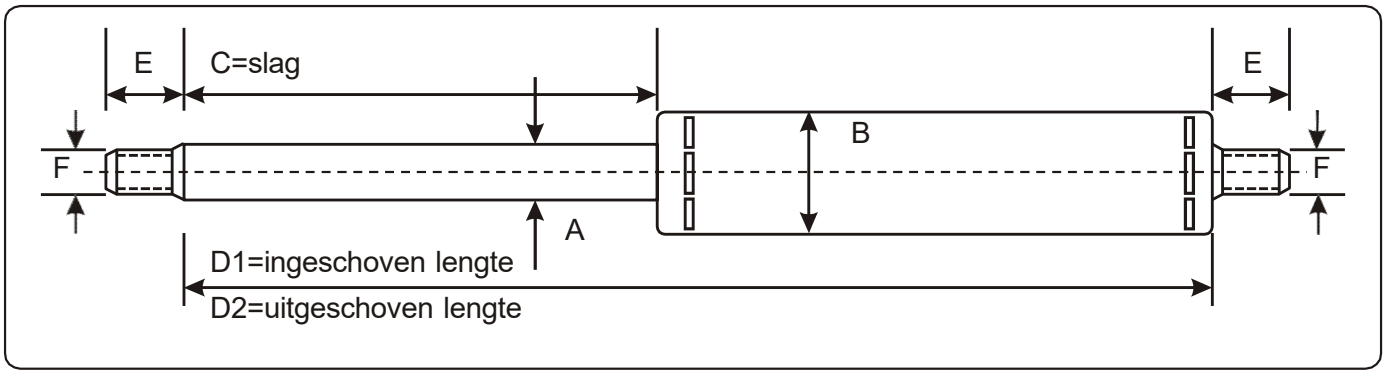
Gas pull springs Stainless steel custom made



Partnr.	type	A	B	STD price to stroke C=	F x E	D1 = minimal (retracted) C + ... mm	Possible force F1 t
999515	6/20	6	20	250mm	M6x10	+ 85 mm	50-750 Newton
999520	8/23**	8	23	500mm	M8x10	+ 85 mm	100-1000 Newton
999525	10/28**	10	28	500mm	M8x10	+ 85 mm	150-1500 Newton
999530	14/42**	14	42	1000mm	M10x15	+ 85 mm	250-4000 Newton
		Extra charge per 50 mm stroke above std					
999516	6/18						
999521	8/23						
999526	10/28						
999531	14/42						

The piston rod is made of AISI 316 or AISI 431 hard chrome-plated and the cylinder tube of stainless steel 316. The bottom piece and the guide are made of seawater-resistant bronze. Other stroke lengths, see page G44.
These gas springs are equipped with a filling valve so that the extension force can Be increased by us afterwards, but not decreased!
Gas tension springs must be installed with the piston rod pointing upwards.
Note: vent hole must remain open! Consult the user manual!! F1 = the tractive force measured with the piston rod extended 5 mm.
For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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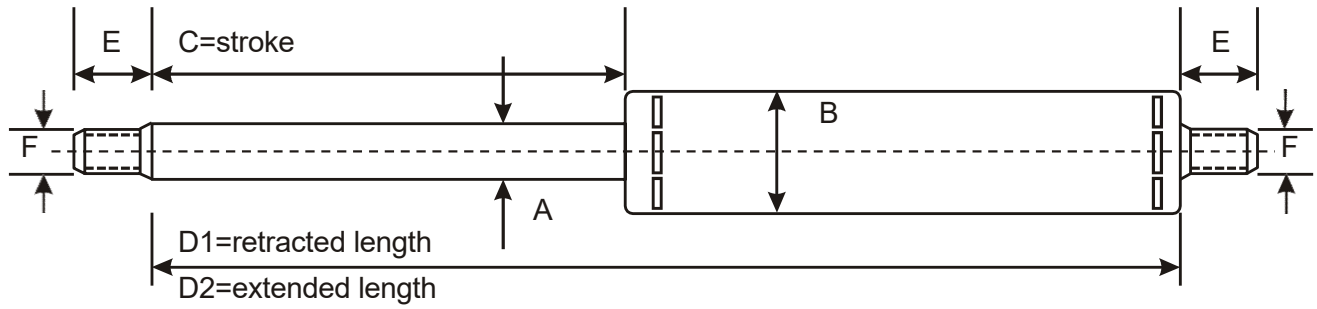
Gas pull springs with damping 6/23 - 14/42

Stainless steel



Partnr.	type	A	B	STD price to stroke C=	F x E	D1 = minimal (retracted) 2xC + ... mm	max. force F1	incl. progres-sion
596710	6/23	6/10	23	250mm	M6x10	2xC+100	750N	975N
596720	10/28	10/14	28	500mm	M8x10	2xC+100	1200N	2200N
596730	14/42	14/20	42	500mm	M10x15	2xC+110	2500N	3600N
		Extra charge per 50 mm stroke above std						
596711	6/23							
596721	10/28							
596731	14/42							

These gas tension springs have an excellent final damping which can be determined in advance in consultation !!
The piston rod is made of AISI 316 or AISI 431 hard chrome-plated and the cylinder tube is made of stainless steel 316, ground. The bottom piece and the guide are made of seawater-resistant bronze.
The piston rod guide is equipped with a dirt scraper.
These gas springs are equipped with a filling valve so that the extension force can be increased by us afterwards, but not decreased!
F1 = the tractive force measured with the piston rod extended 5 mm.

For fasteners such as eyes, ball joints and clevises, see the fasteners pages.

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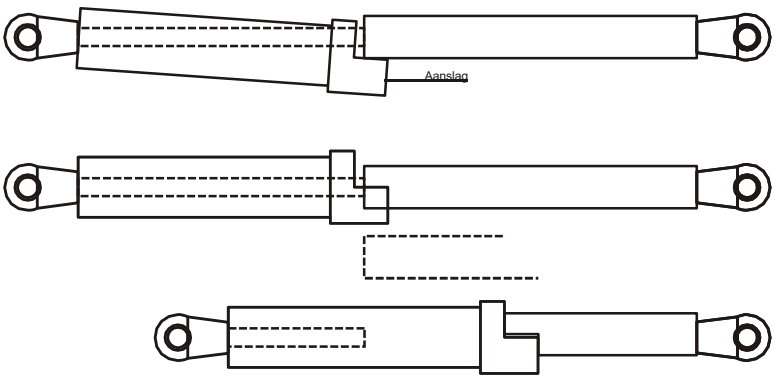
Fall/Protection pipes RVS



These fall/protection pipes assure protection against accidental falling/ closing of your construction and protect the piston rods against damaging.

Made of Stainless Steel they are useable for as well steel and stainless steel springs.
These items cannot be used at gas springs with fixed welded eyelets.

When the gas spring extends, the pipe folds inward and thus blocks the inward stroke. After the stop has been pressed against the cylinder tube, the gas spring can be retracted. Note: the extended length of the gas springs changes when using folding and protective pipes. See the table below. An extension is included for the second gas spring.
These folding/protection pipes can also be used with existing gas springs. Only 1 folding pipe must be used per valve/construction. The similar-looking protective pipe can be fitted to the other spring if necessary.
The eye, or other means of attachment such as a ball joint or clevis, is mounted at right angles to the folding pipe, unless specified otherwise.

Fall-pipe for type:		Brand		Partnumber incl extending part	Additional protection pipe	Extra length
Push springs	Pull springs					
10/22-23	8/23	Airax	T-Technics	601125	601126	43 mm
12/25			T-Technics	601130	601131	50 mm
14/28	10/28	Airax	T-Technics	601135	601136	50 mm
20/40-42	14/40-42		T-Technics	601140	601141	50 mm

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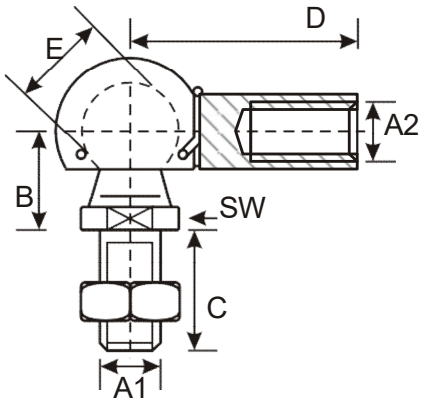
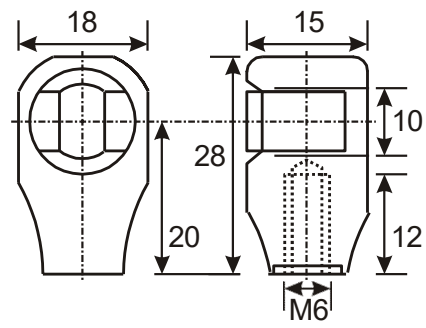


Balljoints according to DIN 71802

Part. number	A1	A2	B	C	D	E	SW	Static force Push/pull
98490	M 4		7	6	17	6	5	90 N
98500	M 5		9	11	22	8	7	300 N
98502	M 5	M 4	9	11	22	8	7	300 N
98504	M 5	M 6	9	11	22	8	7	300 N
98508	M 6	M 8	11	13	25	10	8	700 N
98510	M 6		11	13	25	10	8	700 N
98518	M 8	M 6	13	16	30	13	11	1500 N
98520	M 8		13	16	30	13	11	1500 N
98523	M 8		13	16	20	13	11	1500 N
98526	M 8		13	25	30	13	11	1500 N
98530	M10		16	20	35	16	13	2000 N
98532	M10	M 8	16	20	35	16	13	2000 N
98540	M12		16	20	35	16	13	2000 N
98550	M14X1,5		20	28	45	19	17	3000 N
98552	M14X2		20	28	45	19	17	3000 N
98560	M16		20	28	45	19	17	3000 N

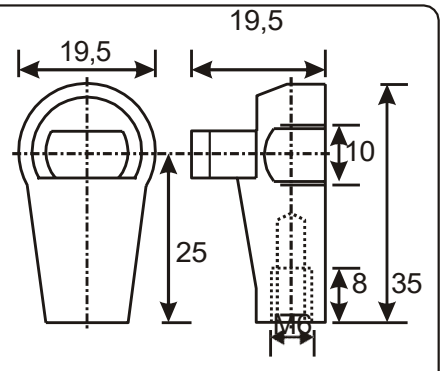


Socket

: Diameter 10 mm
: Innertread M 6
: For ball-stud 92.990 en 92.998
: For mountingplate 92.992

Partnumber : 72421 : nylon black
: 72423 : steel, black zinc

Partnumber : 72425 : nylon black, 10 degrees



Socket

: Diameter 10 mm
: material: nylon black
: Innertread M 6
: For ball-stud 92.990 + 92.998
: For mountingplate 92.992
: effective length 25 mm

Partnumber : 92721

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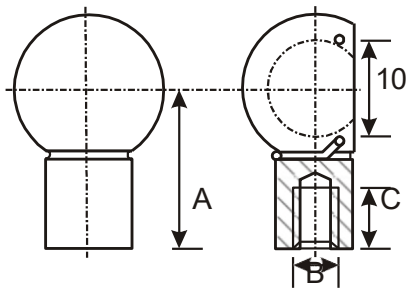
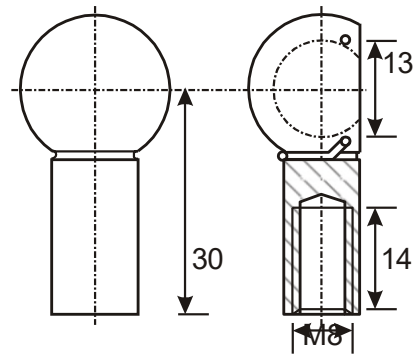


Socket

: steel zinc plated
: for ball 10 mm
: innertread M 6
: voor ball-stud 92990 + 92998
: voor bracket 92992 + 95060 A

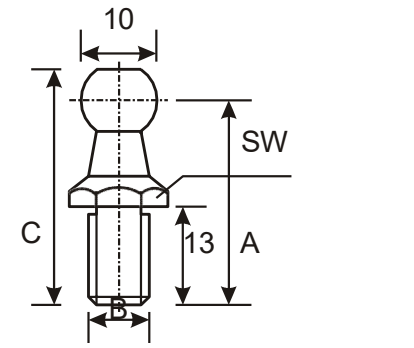
		B	C
Partnumber 92216	: 20	M 6	10
Partnumber 92220	: 25	M 6	10
Partnumber 92215	: 20	M 8	11
Partnumber 92214	: 18	M 8	11



Socket

: steel zinc plated
: For ball 13 mm
: Innertread M 8
: effective length 30 mm
: voor bracket 92995 + 95070

Partnumber : 92996



Ball-stud

: steel zinc plated

: voor kop 72421 + 92721
+ 92215 + 92216

		A	B	C	SW
Partnr. 92998	:	24	M 6	28	10
Partnr. 92990	:	27	M 8	31	13

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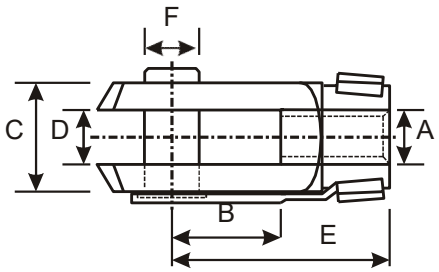
Fork with Clip and eyelets

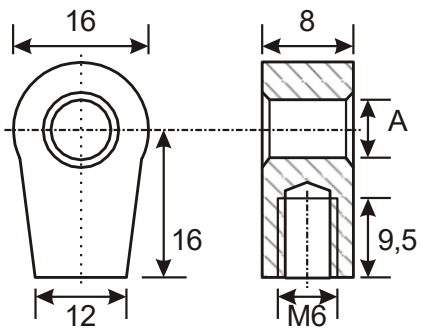


For stainless steel
see page 56

Fork with clip DIN 71751

Partnr.	A	B	C	D	E	F	Max. force Push/pull
98070	M 4	8	9	4	16	4	1500N
98080	M 5	10	10	5	20	5	2500N
98090	M 5	20	10	5	30	5	2500N
98100	M 6	12	12	6	24	6	3500N
98110	M 6	24	12	6	36	6	3500N
98112	M 8 !!	12	12	6	24	6	3500N
98114	M 8 !!	24	12	6	36	6	3500N
98118	M 6 !!	16	16	8	32	8	3500N
98120	M 8	16	16	8	32	8	6000N
98130	M 8	32	16	8	48	8	6000N
98140	M10	20	20	10	40	10	10000N
98150	M10	40	20	10	60	10	10000N
98160	M12	24	24	12	48	12	12000N
98170	M12	48	24	12	72	12	12000N
98200	M14X1,5	28	27	14	56	14	16000N
98210	M14X1,5	56	27	14	85	14	16000N
98202	M14X2	28	27	14	56	14	16000N
98212	M14X2	56	27	14	85	14	16000N
98214	M16	32	32	16	64	16	22000N
98220	M20X2,5	40	40	20	80	20	32000N

Material of the forks above : steel zinc plated



Eyelet : For Spring types 6/15 + 8/20
: material: Zamak

partnumber		A
	: 92258	6
	: 92259	8

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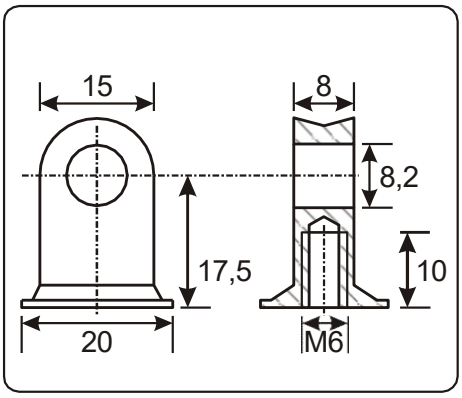
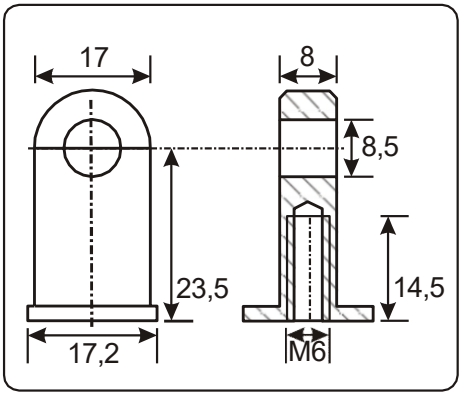


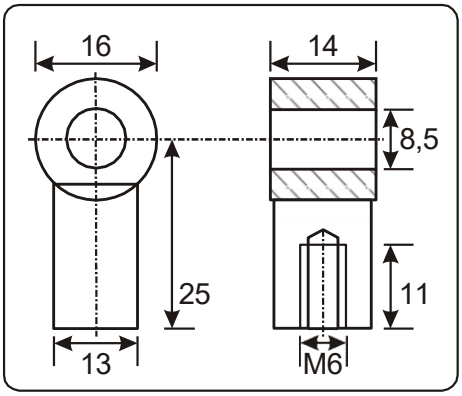
eyelet
: For spring type 6/15 + 8/20
: Material: Zamak
: Innertread M 6
: Bore 8,2 mm
: Width 8mm
: Effective length 17,5 mm

partnumber : 92263



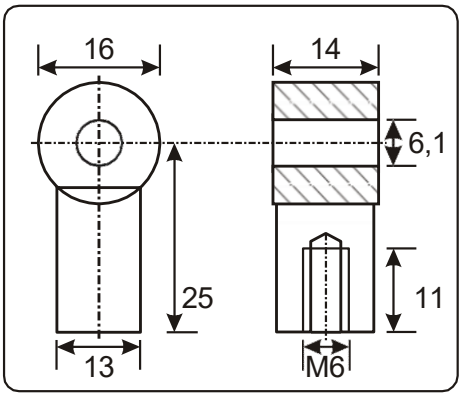
eyelet
: For gas spring type 6/15 + 8/20
: Material: nylon black
: Innertread M 6
: Bore 8,5 mm
: Width 8 mm
: Effective length 23,5 mm

partnumber : 92521



eyelet
: For gas spring type 6/15 + 8/20
: Material: nylon black
: Innertread M 6
: Bore 8,5 mm
: Width 14 mm
: Effective length 25 mm

partnumber : 92522



eyelet
: For gas spring type 6/15 + 8/20
: Material: nylon black
: Innertread M 6
: Bore 6,1 mm
: Width 14 mm
: Effective length 25 mm

partnumber : 92527

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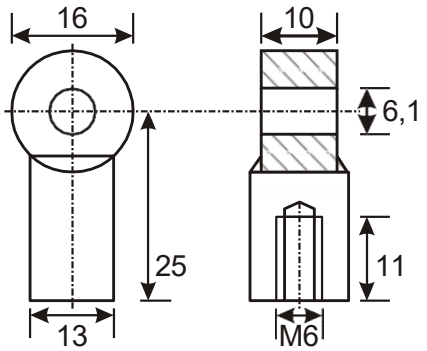
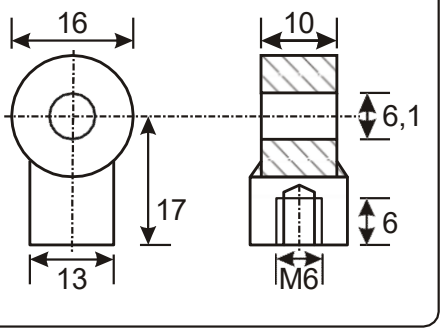


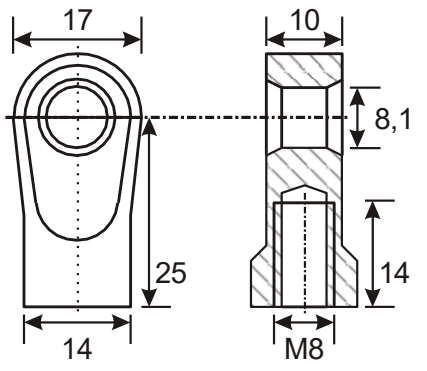
eyelet
: For gas spring type 6/15 + 8/20
: Material: nylon black
: Innertread M 6
: Bore 6,1 mm
: Width 10 mm
: Effective length 25 mm

partnumber : 92528



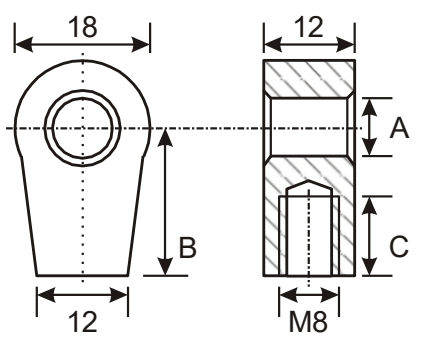
eyelet
: For gas spring type 6/15 + 8/20
: Material: nylon black
: Innertread M 6
: Bore 6,1 mm
: Width oog 10 mm
: Effective length 17 mm

partnumber : 92530



eyelet
: For gas spring type 10/22 + 14/28
: Material: Zamak
: Innertread M 8
: Bore 8,1 mm
: Width 10 mm
: Effective length 25 mm

partnumber : 92264



eyelet
: For gas spring type 10/22 + 14/28
: Material: Zamak
: Innertread M 8
: Width oog 12 mm

		A	B	C
partnumber	92268	6,2	16	9
	92261	8,3	20	11
	92271 :	10,1	16	9
	92270 :	12,2	16	9

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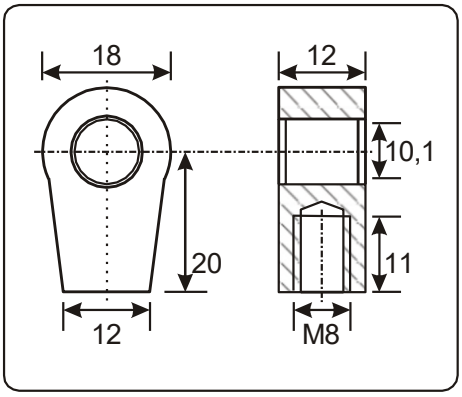
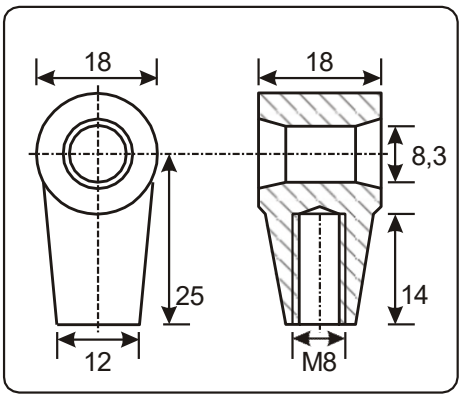


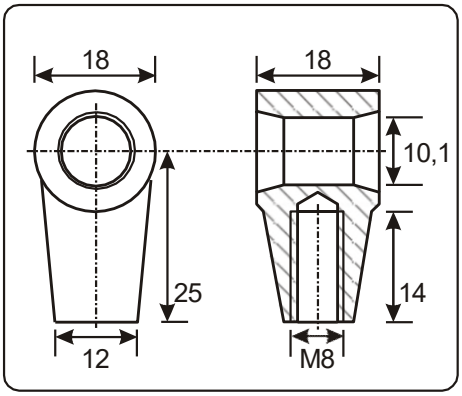
eyelet
: For gas spring type 10/22 + 14/28
: Material: Zamak
: Innertread M 8
: Bore 10,1 mm
: Width 12 mm
: Effective length 20 mm

parttnumber : 92267



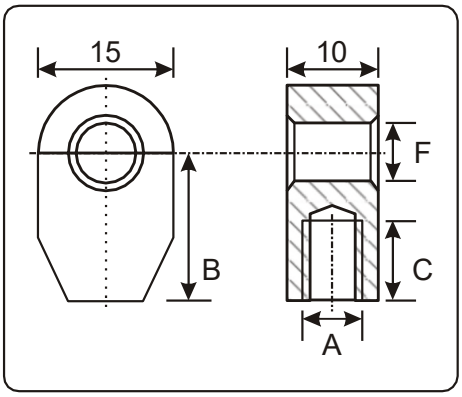
eyelet
: For gas spring type 10/22 + 14/28
: Material: Zamak
: Innertread M 8
: Bore 8,3 mm
: Width 18 mm
: Effective 25 mm

partnumber : 92260



eyelet
: For gas spring type 10/22 + 14/28
: Material: Zamak
: Innertread M 8
: Bore 10,1 mm
: Width 18 mm
: Effective length 25 mm

parttnumber : 92266



eyelet
: eyelets in stainless see G56
: materiaal: staal verzinkt

Part-number	A	B	C	F	
98750	M 6	16	12	8	aluminium
98785	M 8	16	12	8	steel zinc plated
98760	M 6	20	12	8	steel zinc plated zonder fase

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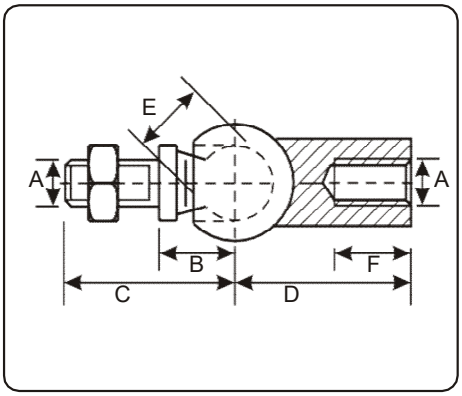
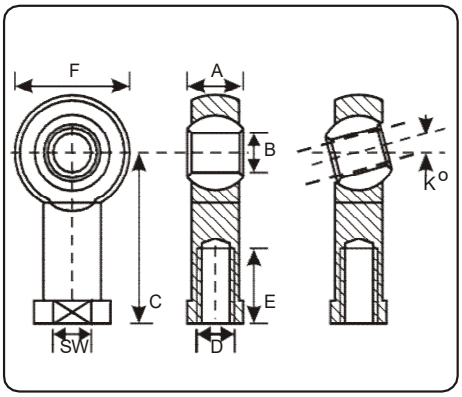
Kogelgewrichten axiaal, stangkoppen en ogen



Baljoint Axial DIN 71802

Material steel zinc plated
These joints cannot be used at pull-springs!!

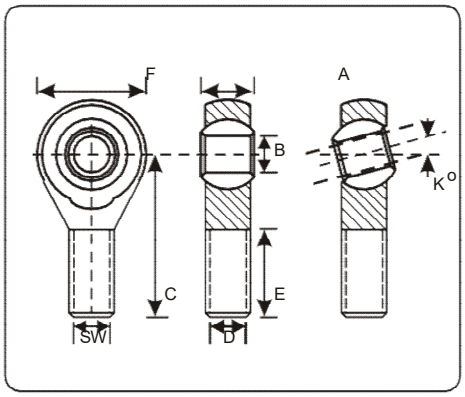
Part number	A	B	C	D	E	F	max.pull-force
98.590	M 5	10	20	22	8	10	25 N
98.600	M 6	11	23,5	25	10	11,5	40 N
98.610	M 8	13	29,5	30	13	14	60 N
98.620	M10	16	36	35	16	15,5	80 N
98.630	M14X1,5	20	48	45	19	21,5	100 N



Rodhead steel

: bearring: steel o PTFE
: very durable
: stainless steel see page. G37

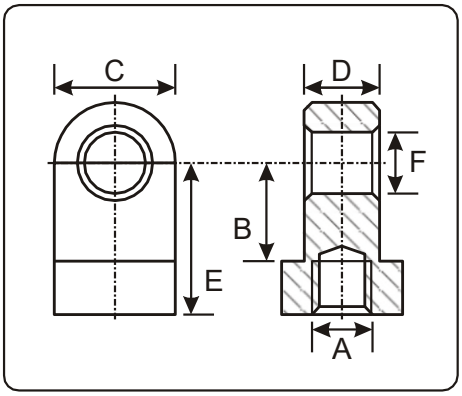
number	A	B	C	D	E	F	K	SW
96.090	8	5	27	M 4 !!	10	18	13	9
96.100	9	6	30	M 6	12	20	13	11
96.110	12	8	36	M 8	16	24	13	13
96.120	14	10	43	M10	20	28	13	17
96.125	16	12	50	M12	22	32	13	19
96.130	19	14	57	M14	25	36	15	22



Rodhead

: with outer tread
: maintenance free
: bearring steel on PTFE
: very durable

number	A	B	C	D	E	F	K
96.200	9	6	36	M 6	22	20	13
96.210	12	8	42	M 8	25	24	13
96.212	14	10	48	M10	29	28	13
96.214	16	12	54	M12	33	32	13
96.216	19	14	60	M14	36	36	15



Eyelet

(Stainless steel see pagina G57)
: materiaal: staal verzinkt

number	A	B	C	D	E	F
98.765	M 8	13	14	10	20	8
98.795	M10	17	18	10	30	8

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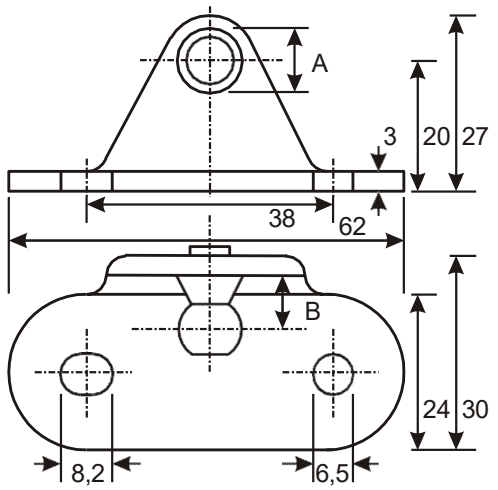


Base plate

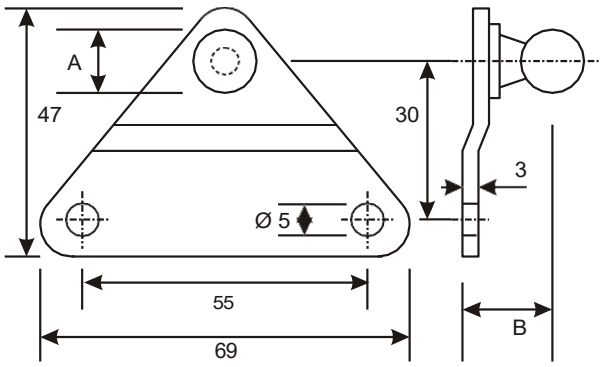
:steel zinc plated
:For ballstud 72.421 + 92.720
:A = 10 mm
:B = 8,3 mm

partnumber :92992

base plate

:staal verzinkt
:voor kogelkop 92.996
:kogel = omkeerbaar
:A = 13 mm
:B = 13 mm

partnumber :92995



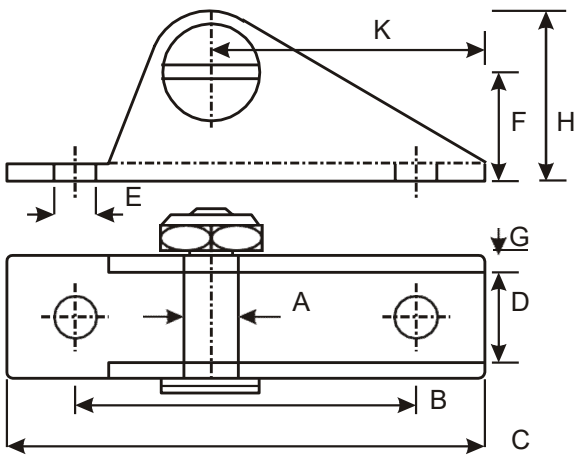
Triangle plate with ball joint

:steel zinc plated

95.060 :For ballstud 72421 + 92215 + 92216 + 92220 + 92721

95.070 :For ballstud 92.996

partnumber		95060	95070
A	:	Ø 10	Ø 13
B	:	17	17,5



Fastening bracket

:steel zinc plated
:with bolt and nut

artnumber		95.020
A	:	8
B	:	75
C	:	95
D	:	13
E	:	6,3
F	:	20
G	:	2,5
H	:	30
K	:	65

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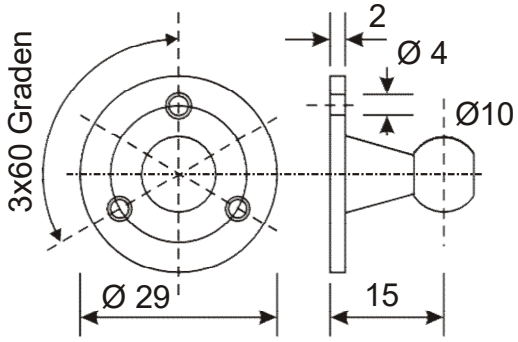
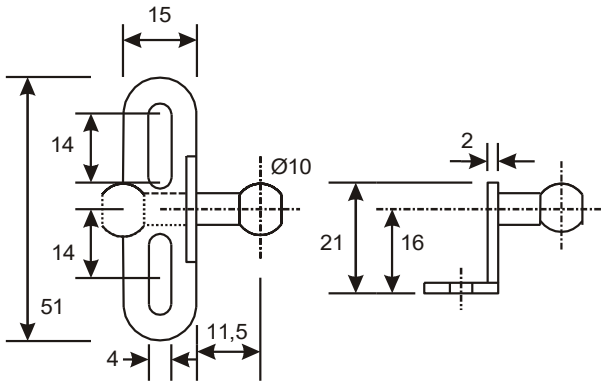


Base plate

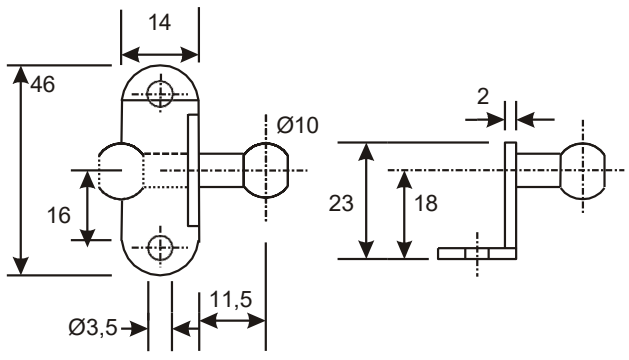
	:	steel zinc plated
	:	max. gas spring force 150N
For ball joints:		72421 + 72425 92215 + 92216 92220 + 92721
partnumber	:	95080



Base plate with ball joint

	:	steel zinc plated
	:	max. gas spring force 150N
For balljoints	:	72421 + 72425 92215 + 92216 92220 + 92721

	partnumber
Ball at inside	95090
Ball at outside	95091



Baseplate with ball joint

	:	steel zinc plated
	:	max. gas spring force 150N
For ball joints	:	72421 + 72425 92215 + 92216 92220 + 92721

	partnumber
Ball at inside	95.094
Ball at outside	95.095

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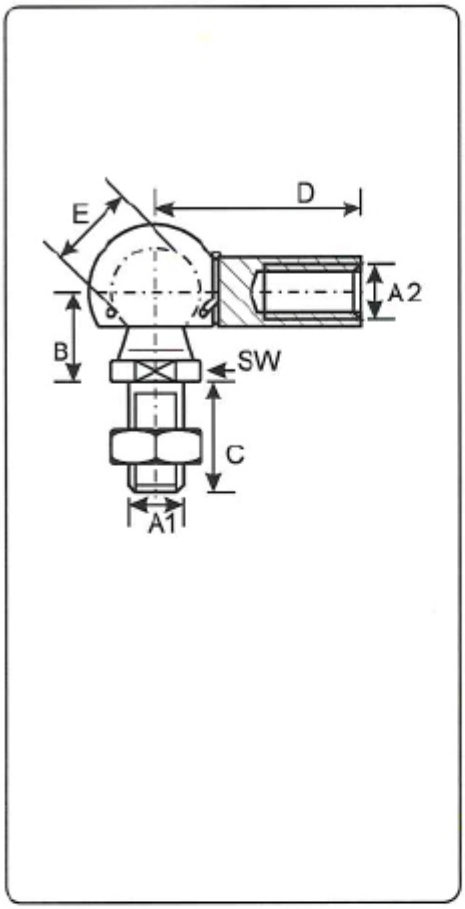
Fastening accesoires stainless steel



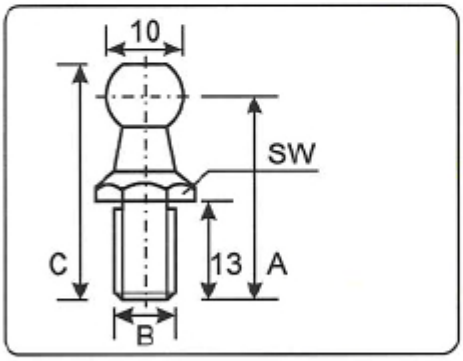
ball joints radial according to DIN 71802

material: stainless steel 1.4305 (AISI 304)

part-number	A1-A2	B	C	D	E	SW	static force pull / push
999.296	M5-M6	9	11	22	8	7	300 N
999.302	M10	16	20	35	16	13	2000 N
999.304	M14x1,5	20	28	45	19	17	3000 N
999.305	M14x2	20	28	45	19	17	3000 N

material: stainless steel 1.4404 (AISI 316)

part-number	A1-A2	B	C	D	E	SW	static force pull / push
999.475	M 4	7	6	17	6	5	90 N
999.477	M 5	9	11	22	8	7	300 N
999.476	M 6	11	13	25	10	8	700 N
999.478-20	M 8	13	16	20	13	11	1500 N
999.478-25	M 8	13	16	25	13	11	1500 N
999.478	M 8	13	16	30	13	11	1500 N
999.480	M10-M8	16	20	35	16	13	2000 N
999.482	M10	16	20	35	16	13	2000 N

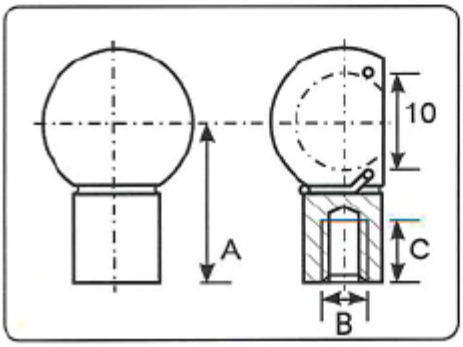


ball stud

material: stainless steel 1.4305 (AISI 304)

: for ball socket 72.421 + 92.721 + 92.215 + 92.216 + stainless steel 999.277

		A	B	C	SW
part.number 98.980	:	24	M 6	28	10



ball socket

material: stainless steel 1.4305 (AISI 304)

: for ball stud 10 mm
: female taper thread M 6
: for base plate 999.276

		A	B	C
part.number 999.277	:	25	M 6	10

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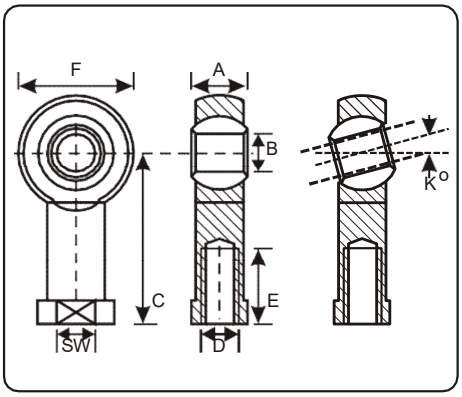
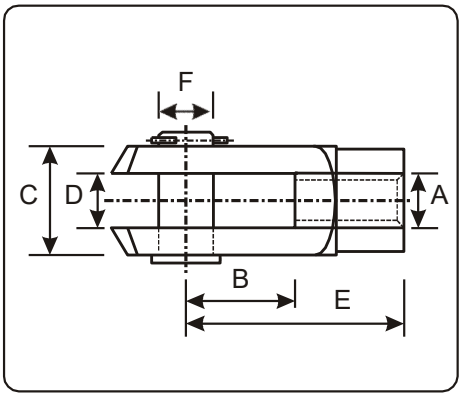
Fastening accesoires stainless steel



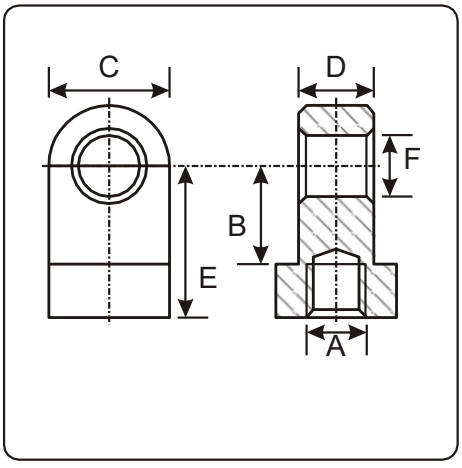
Rodheads stainless steel

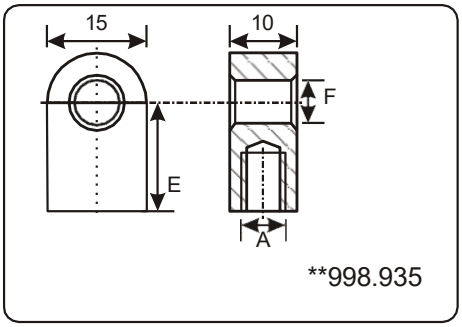
partnumber SS 1.4305 (AISI 304)	SS 1.4404 (AISI 316)	A	B	C	D	E	F	K	SW
999.465		8	5	27	M 4 !!	10	17	13	10
	999.420	9	6	30	M 6	12	20	13	11
	999.422	12	8	36	M 8	16	24	13	14
	999.424	14	10	43	M10	20	30	13	17
	999.426	19	14	57	M14	25	38	15	22



Forks stainless steel DIN 71751

partnumber SS 1.4305 (AISI 304)	SS 1.4404 (AISI 316)	A	B	C	D	E	F
999.306		M 4	8	9	4	18	4
999.308		M 6	12	12	6	24	6
	998.810	M 8	16	16	8	32	8
	998.820	M10	20	20	10	40	10
999.322		M14	28	28	14	56	14
999.324		M14x1,5	28	28	14	56	14





**998.935

Eyelets stainless steel

Partnumber SS 1.4305 (AISI 304)	SS 1.4404 (AISI 316)	A	B	C	D	E	F
999.326		M 4	7	8	4	12	4
	998.928	M 6	9	10	6	16	6
999.330		M 6	12	14	5	26	6
999.332		M 6	12	14	5	26	8
	998.933	M 8	12	14	5	26	8
	998.934	M 8	13	15	10	19	8
	**998.935	M 8	16	15	10	16	8
999.331		M 8	16	15	10	26	8
999.336	998.936	M 8	16	18	10	30	8
	998.938	M 8	16	18	10	30	10
999.340		M10	16	18	10	30	8
999.342		M10	16	18	10	30	10
999.350		M14	17	22	14	38	14
999.380		M14	17	22	14	27	14

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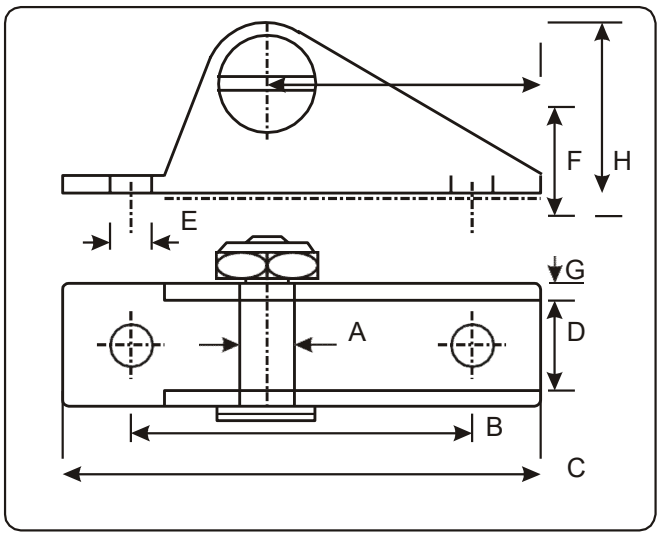
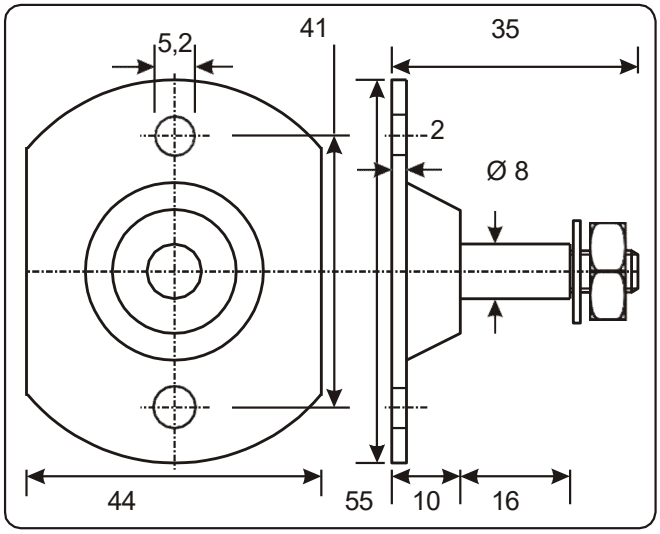


Bracket SS 1.4305
:with bolt and nut

Partnr.	999253	999258	999260
	6		
A :	40	6	8
B :	55	50	50
C :	11	70	70
D :	4,5	13	13
E :	10	6,3	6,3
F :	2	16	16
G :	17	2,5	2,5
H :	35	25	25
K :		40	40



Base plate

:SS 1.4305
:with bot and nut
:diameter pin 8 mm
:mountinghole position 41 mm
:bore mountingholes 5,2 mm

partnumber :998270

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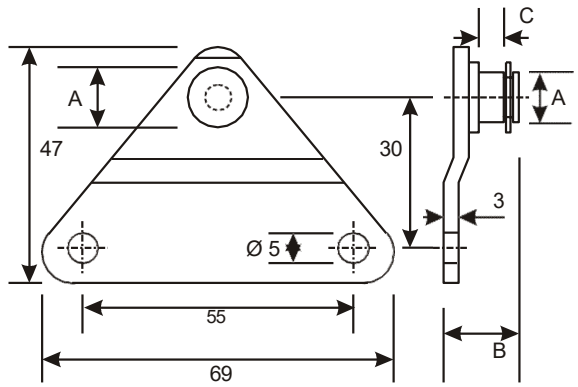
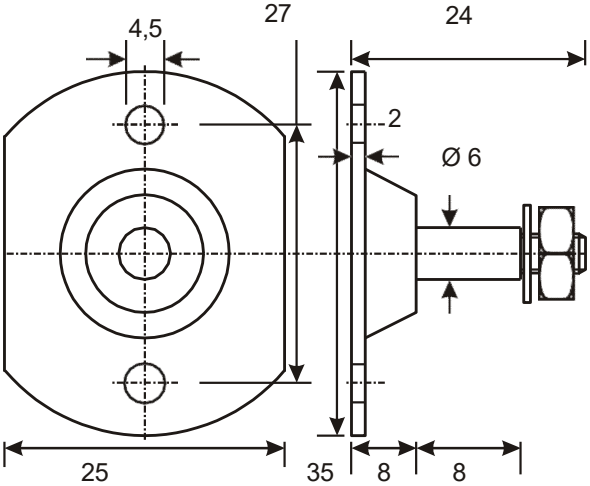


Triangel plate for eyelets

:SS 1.4305

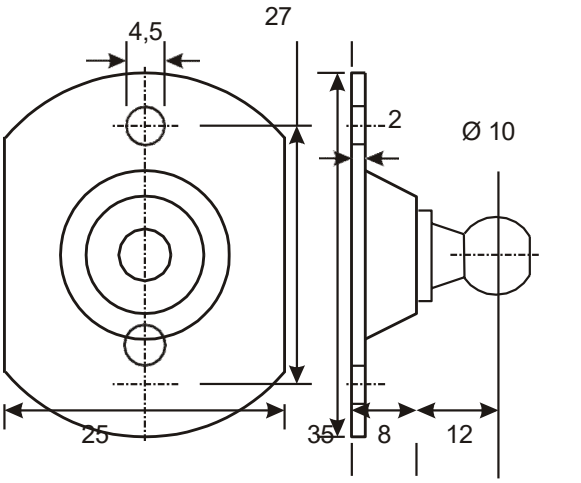
partnumber		999272	999273
A	:	Ø 6	Ø 8
B	:	17	25
C	:	7	11



Base plate

:SS 1.4305
:with bolt and nut
:diameter pin 6 mm
:mountinghole position 27 mm
:bore mountingholes 4,5 mm

partnumber :999275



Base plate

:SS 1.4305
:ball Ø 10 mm
:mountinghole position 27 mm
:bore mountingholes 4,5 mm
:for ball joints 72.421 + 74.425
+ 92.215 + 92.216 + 92.220
+ 92.721 + rvs 999.277

partnumber :999276

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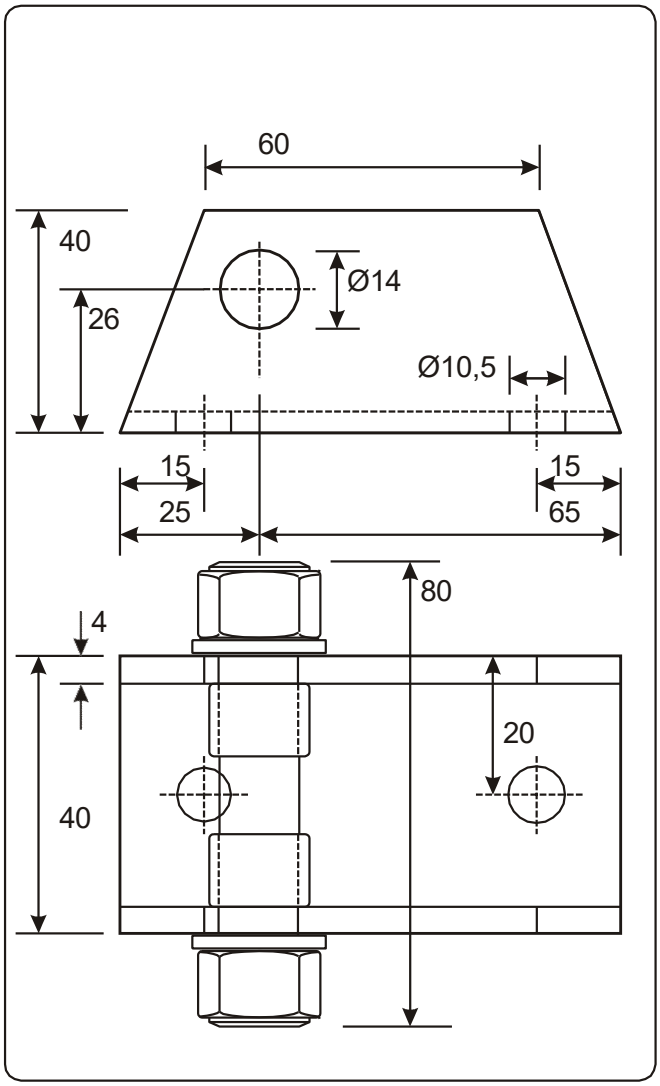
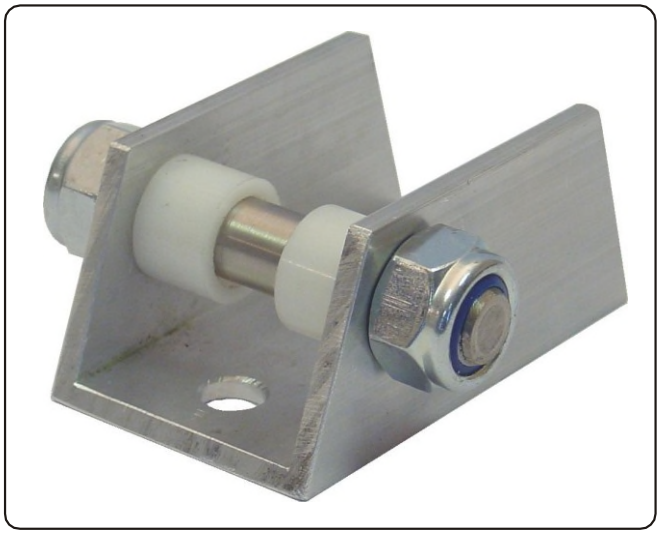
Fastening brackets Stainless steel



Fastening bracket stainless steel

: for gas spring type 20/40 en 20/42

: SS 1.4301 (304)
: with SS pin and self locking nut
Partnumber : 999280



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Force releasable gas compression spring

997050
ventiel: 997060/997061/972552/972553
sleutel: 997070

Force releasable gas spring

10/23, 14/28, 14/40 m14,

14/40 m10

These springs can be filled to the highest possible force.
After installation releasing can be done by using the supplied turntable tool to meet the requested force.

The force can be released as much force as desired.
The gas spring therefore does not have to be installed and removed every time to do so.

These gas springs are ideal for working "on the job", when the required gas spring force cannot be determined in advance, or when it is about "proto-typing".

If too much force is released, the spring can be refilled by us.

The total length of these gas springs is 15mm longer the length of standard springs.
This version is available several T-Technics gas springs.

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Mechanical lockable springs

verzamelnr. 998600, in RVS 998602

blocspring **

A stepless blockable series of gas springs.

You can fix the piston rod in the desired position by means of a star shaped knob.

The blocking force is approximately max.50 kg.

These gas springs are extremely suitable for securing height-adjustable tables or similar constructions, where counter pressure is present

Due to the new construction, damage to the piston rod no longer affects the operation of the gas spring

Available are gas springs with piston rods of 8, 10 and 13 mm with extension forces from 100 to 2500 Newton.

All kinds of fasteners such as ball joints, clevises and eyes are available on the gas springs.

Available with a drain-valve and in a completely stainless steel version.

** patent granted

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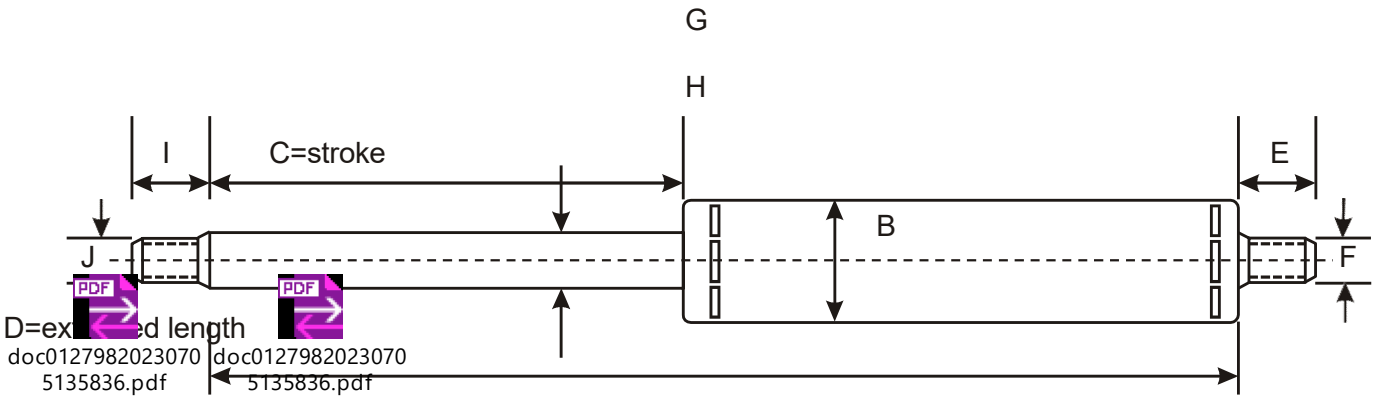
Oil dampers

An oil damper can be supplied in the same diameter and lengths as a T-Technics spring in galvanized steel or stainless steel 316.

Just like the gas springs, these dampers can be fitted with mounting eyes, ball ends or clevises so that they can be mounted next to a gas spring of the same length. An oil damper can also be used without a gas spring next to it, for example to dampen a downward movement.



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Article 1. APPLICABILITY.
1. These terms and conditions apply to all offers and deliveries made by us to third parties, to all work carried out by us on the assignment of third parties, as well as to all agreements in the broadest meaning of the word entered into by us with third parties.
2. These terms and conditions apply within the Netherlands as well as abroad, regardless of the place of residence or business of any parties involved in any agreement, also regardless of the place where the agreement has come into effect, or should have been performed.

Article 2. OFFERS.
All offers and price quotes are without obligation, unless expressly stated otherwise, and are based on any data provided with
the request.
All our offers are valid for thirty days from the offer but are made without obligation. The measurements, weights or results stated by us in images, catalogues, drawings or in any other manner must be deemed to have been provided as an estimate
and without obligation.
We will not be bound by these statements and do not accept any liability for any inaccuracies in that data.

Article 3. AGREEMENTS / ASSIGNMENTS.
1. Assignments include every agreement with us, regardless of whether we undertake to deliver items or carry out work, or
make materials or space available, or execute whatsoever other performance, all this in the broadest meaning of the word.
2. All agreements concluded with us will only become binding by means of our confirmation in writing. Any addendums or
amendments of aforesaid agreements will only bind us after, and insofar as, these have been accepted by us in writing.
Only the management and any person who is authorised thereto in writing by the management can and may enter into
agreements on our behalf.
3. Unless this should be expressly agreed otherwise in writing, we will at all times have the right to have the assignment
executed, wholly or in part, by third parties, whereby these terms and conditions will also apply for the benefit of such third
parties, subject to the condition that we, if necessary retrospectively, authorise them in writing to rely on these terms and
conditions without this authorisation being able to result in any obligation arising towards us.

Article 4. MOUNTING, DISASSEMBLY AND REPAIR.
1. Unless expressly agreed otherwise in writing it is agreed that all mounting, installation, repair and construction work,
hereinafter referred to as "mounting" will be on the account and risk of the client.
2. In the event of repairs being carried out the replacement materials can be retained by us subject to retention of title. However,
client can after 14 days from the date of the invoice request the return thereof.
3. If mounting takes place on our account then the following applies:
A. The client will provide all assistance which can reasonably be expected of client:
B. The client will for this purpose make available to those who are engaged by us for the mounting, hereinafter referred to as "mechanics", workers, fuel, lubricants, electrical power, water and suchlike free of charge.
C. The client will also make available scaffolding, containers, lift, hoist and transport equipment, ladders, mounting resources and similar materials, however this will be at market prices;
D. If, through circumstances beyond our control, the mechanics cannot continue in a regular manner, or must work outside normal working hours, then all costs ensuing therefrom will be charged to the client.

Article 5. LIABILITY.
1. The execution of the assignment

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will take place entirely on the account and responsibility of the purchaser or client, also in the event of fault or negligence on our part, our staff or other servants or agents.
2. All damage or disadvantages, directly or indirectly caused through incidents through, or in any manner related to, the execution of the assignment, in particular also consequential loss caused by whomever (including ourselves, our staff, or other servants or agents), will be on the account of the purchaser or client, who if necessary has indemnified us fully against claims of third parties, including also the other party to agreements concluded by us / or by purchaser or client.
3. The exclusion of our liability and therewith corresponding obligations to indemnify the client are universal.
They comprise therefore inter alia of the liability for brands, numbers of items, quantities, weights, measurements and suchlike, regarding duration of time and delay or all damage or disadvantages related thereto, such as the becoming due and payable of extra rates, financial penalties, demurrages, etc.: for storage sites, storage places, moorings and suchlike: for all installations, equipment and resources, for personal and other staff and engaged foreign firms, etc.: for the drawing up of documents, declarations, notifications, payments, etc.: for damage suffered by third parties through the transportation.
4. The exclusions of liability and the corresponding obligations to indemnify ensuing from these terms and conditions for the client also apply for the benefit of our staff and servants or agents, who are present during the execution of the assignment, as well as for the benefit of any of our advisers and suchlike.
5. In all events the level of our liability and the liability of persons used by us, will be limited to the amount for which we would execute the assignment or the delivery.

Article 6. DELIVERY PERIODS AND PLACE OF DELIVERY.
1. Delivery periods stated will never be deemed to be final deadlines, unless expressly agreed otherwise in writing. In case of untimely delivery we must be given notice of default accordingly.
2. Exceeding of these periods through whatsoever cause will never give the purchaser or client the right to compensation, termination of the agreement or non-fulfilment of any obligation which might ensue to them from the agreement concerned or any other agreement related to this agreement.
3. In case of exceeding of the delivery period we will enter into further consultation with the purchaser or the client.
4. Delivery will take place from our company or other location to be stated by us.
5. When items sold by us or services offered, after having been offered to the purchaser or the client, are not accepted by them, they will be available to them for the duration of three weeks

Article 7. RISK.
All items and materials will from the time of sale be on the risk of the purchaser or the client, also when delivery carriage paid might have been agreed. The purchaser or the client is liable for the remainder for all damage (such as transport, fire and water damage, theft or misappropriation) suffered during the transport. On arrival of the items the purchaser or the client must ascertain the condition of the items. If delivery has been agreed other than from our company, then the transport will take place i n a manner to be determined by us.

Article 8. PRICES AND COSTS.
1. We record for each assignment separately a price or a rate. These prices or this rate are exclusively intended as the remuneration for the performance accepted by us including the normal costs forming part thereof. The price or rate therefore does not fall under duties from the government or other authorities, such as when concerning import duties, financial penalty, etc., nor guarantees, nor securities to be furnished to whomsoever, nor costs of police escort or costs of barrier materials or of other prescribed obligations. These will be charged separately.

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If between acceptance of the assignment and delivery the prices of the matters or services to be purchased by us from third parties increase due to fluctuations of market prices or exchange rates, or otherwise, we will be entitled to charge on these increases to the purchaser or the client.
If the delivery appears to amount to less or more than was expected in advance then the total price will be accordingly increased or reduced.
2. We will be entitled to require advance payments of deposit or security. If we have obvious misgivings with regard to the payment capacity of the purchaser, then we will be entitled to postpone the delivery of the purchased items, until the purchaser has furnished security for the payment. The purchaser is personally liable for any damage to be suffered through this delayed delivery.
3. We include for deliveries an amount always to be determined by us prior to the delivery, as charge for the freight and administrative costs.
4. We can increase the agreed prices in a binding manner for the client. If we increase the prices after the coming into effect of the agreement, the client has the right to terminate the agreement.

Article 9. PAYMENT TERMS.
Unless expressly agreed otherwise in writing it is agreed that the payment of our invoice must take place within 30 days from the invoice date, without deduction or reductions which are not expressly permitted by us.
We are entitled, for the purpose of prompt payment discount, to charge a surcharge, which surcharge will exclusively in case of payment within 30 days be deducted from the invoice amount. All payments will take place without deduction or setoff at our company or a bank or giro account to be designated by us.

Article 10. INTER COMMUNITY TRADE.
In the event that the VAT number stated to us is not or no longer the client's, then we will not be obliged to any payment. We can, if necessary, recover all damage or still to be paid VAT at all times from the client.

Article 11. COMPENSATION IN CASE OF LATE OR NO PAYMENT.
From the date of the expiry of the aforesaid payment term the other party will owe the statutory interest. The other party will also, after first a reminder or demand in writing, owe extrajudicial costs to an amount to be calculated in accordance with the usual collection rates of the Netherlands Bar Association, with a minimum of € 75.-
over the first € 3,000.- : 15%
over the remainder up to € 6,000.- : 10% over the remainder up to € 15,000. : 8% over the remainder up to € 0,000.- : 5% over the remainder : 3%

Article 12. GUARANTEE AND COMPLAINTS.
1. We provide a guarantee for the items delivered by us during the period which is provided to us by our subcontractors, however only for the materials used and manufacturing faults.
2. We do not guarantee that the items are suitable for the purpose for which the purchaser intends these, even if that purpose has been known to us, unless the contrary is agreed between parties.
3. Any complaints, about delivered goods as well as invoice amounts, must be submitted in writing by registered letter within 7 days from the defect becoming apparent to the purchaser, including precise statement of the facts to which the complaint relates.
Complaints about number of items and type can only be submitted at delivery. If submitted complaints do not fulfil the aforesaid they can no longer be received and the purchaser or the client will be deemed to have approved the delivery. When we are of the opinion that a complaint is justifiably submitted, we will have the right to pay a monetary amount, to be determined after further consultation, as compensation to the purchaser or the client, or to proceed with a new delivery with the maintaining of the existing agreement, this subject to the obligation of the purchaser or client in that case to return the wrongly or unsatisfactory delivery, carriage paid. We will only be obliged to take cognisance of submitted complaints

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when the purchaser or the client involved at the time of the submission of the complaint has fulfilled all their existing obligations towards us, ensuing from whatsoever agreement between them and us. A submitted complaint does not suspend the payment obligation for payment of the prices for delivered goods and services.
No complaint can be received if delivered goods are no longer in every aspect in the same condition as at the time of delivery.
Return consignments are not permitted unless we have provided express permission in writing for this purpose. them and us. A submitted complaint does not suspend the payment obligation for payment of the prices for delivered goods and services.
No complaint can be received if delivered goods are no longer in every aspect in the same condition as at the time of delivery.
Return consignments are not permitted unless we have provided express permission in writing for this purpose.

Article 13. RETENTION OF TITLE.
All items delivered or still to be delivered remain exclusively the property of the seller until all claims which the seller has or will have against the purchaser, on whatsoever basis, are paid in full. As long as the ownership of the items has not been transferred to the purchaser, the purchaser may not pledge, transfer in ownership for security, or provide third parties with any right to the items. The purchaser is obliged to keep the items which are delivered subject to retention of title, with the necessary carefulness and as recognisably the property of the purchaser. If the purchaser is in default of its payment obligation or is in payment difficulties, then the seller will be entitled to take back the goods which have been delivered subject to retention of title, and which are still present at the purchaser's, without any notice of default, in which case the agreement will also be terminated without judicial intervention, without prejudice to our right, if necessary by bringing legal proceedings, to claim compensation of any damage suffered by us, including lost profit and interest.
Purchaser or client authorize us hereby irrevocably to enter their site and buildings for this purpose. This is without prejudice to the other rights accruing to seller.

Article 14. PURCHASE CONDITIONS.
If the purchaser or the client applies (purchase) conditions, then these will not apply to us insofar as these derogate from these terms and conditions of supply. The purchaser will inform us in writing if the purchaser wishes to apply its personal purchase conditions. This will be deemed by us to be a new offer which will not bind us earlier than when we have confirmed this in writing.

Article 15. DEROGATION FROM TERMS AND CONDITIONS.
Any derogation from these terms and conditions applied by us at any time for the benefit of the purchaser or the client will never retrospectively provide the latter with the right to rely on, or to claim such derogation as definite for the purchaser or the client.

Article 16. FORCE MAJEURE.
Force majeure will release us from our obligation towards the purchaser or the client. Force majeure factors are considered to be those events and situations that occur either at home or abroad, which have a demonstrable direct and indirect impact on our company, if there are inter alia prohibited on the part of the Dutch or foreign governments, livestock diseases, serious disruptions of our production process, war, riot, epidemic, transport disruptions, job strike, exclusion, loss or damage in case of transport, embargos, bankruptcy, or breach of contract of suppliers, lack of raw materials and fuel. In the event of hindrance to the performance of the agreement resulting from force majeure we will either be entitled to suspend the performance of the agreement for no more than 6 months, or to terminate the agreement wholly or in part, without

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us ever being obliged to payment of compensation.

Article 17. CANCELLATION.
If the purchaser or the client cancels an assignment or order, then purchaser or client will owe us a financial penalty of 25% of the value of that assignment or order, to be paid within 30 days from the sending of the invoice concerned by us, without prejudice to our right to claim compensation in full and/or specific performance of the agreement.

Article 18. DISPUTES.
1. With regard to all obligations and legal actions between parties the law of the Netherlands is applicable.
2. Any legal claims which the other party has against the seller on whatsoever basis must be brought, subject to lapse of all rights, within one year from the coming into effect of the agreement between parties.
3. Any disputes regarding all obligations and legal claims which ensue from the agreement will according to the subject matter jurisdiction at first instance be adjudicated by the subdistrict court with territorial jurisdiction over this, or at least the District Court of the district in which our company has its business location. The purchaser will be given the opportunity within one month after we have relied in writing on this clause for adjudication of the dispute to still choose in accordance with the law the court of competent jurisdiction.
4. In case of any differences between the Dutch and a text of these terms and conditions in another language the Dutch text will prevail.

Hengelo, 15 September 1994

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