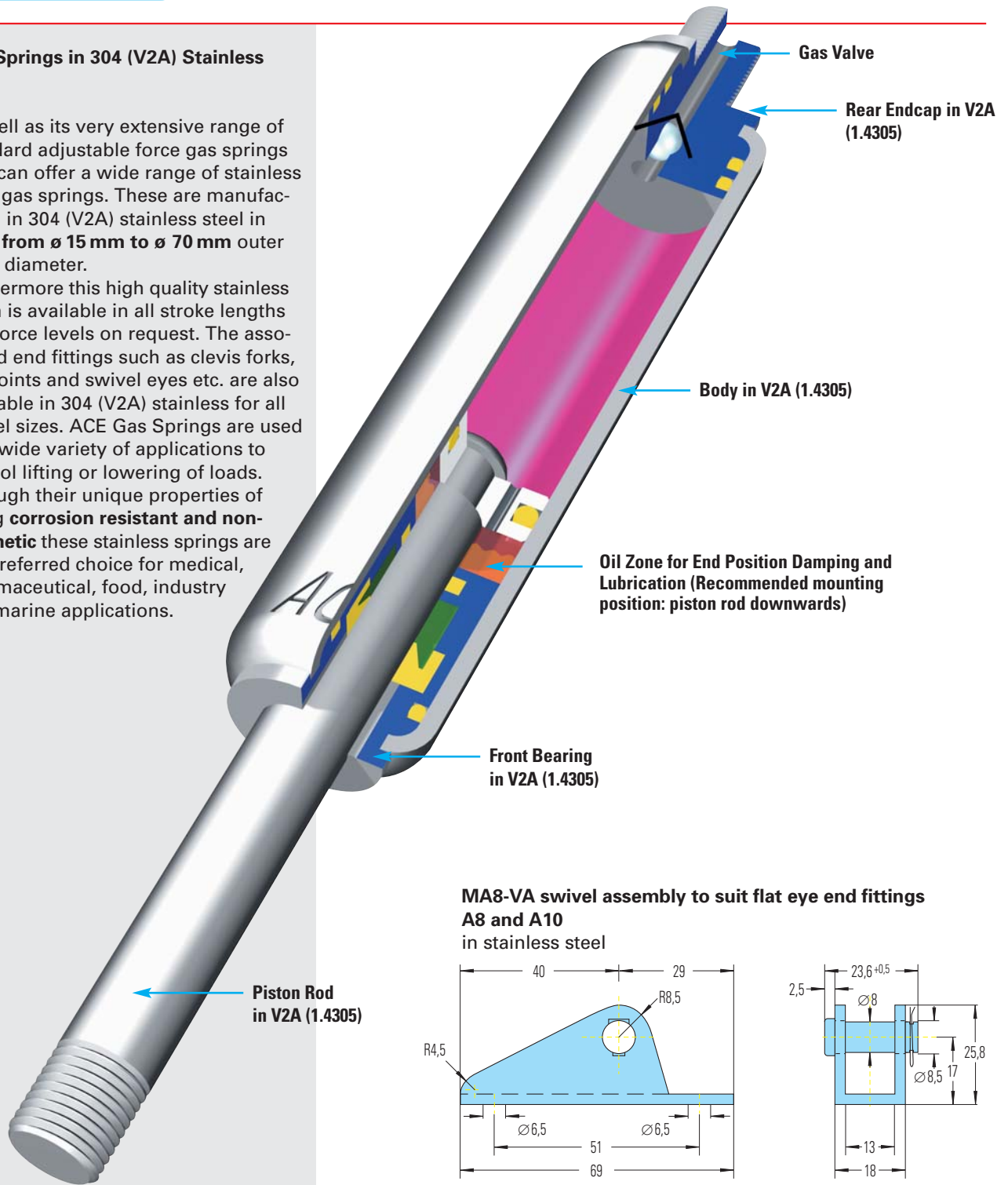


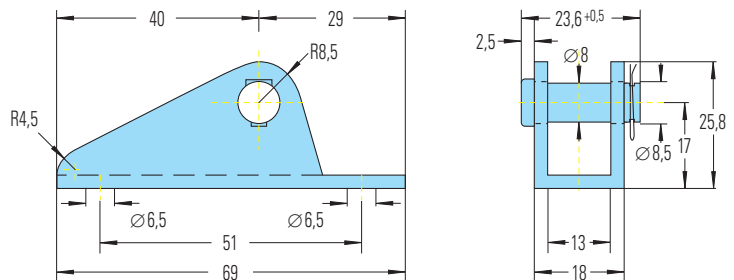
### Gas Springs in 304 (V2A) Stainless Steel

As well as its very extensive range of standard adjustable force gas springs ACE can offer a wide range of stainless steel gas springs. These are manufactured in 304 (V2A) stainless steel in sizes **from  $\varnothing$  15 mm to  $\varnothing$  70 mm** outer body diameter.

Furthermore this high quality stainless finish is available in all stroke lengths and force levels on request. The associated end fittings such as clevis forks, ball joints and swivel eyes etc. are also available in 304 (V2A) stainless for all model sizes. ACE Gas Springs are used on a wide variety of applications to control lifting or lowering of loads. Through their unique properties of being **corrosion resistant and non-magnetic** these stainless springs are the preferred choice for medical, pharmaceutical, food, industry and marine applications.



### MA8-VA swivel assembly to suit flat eye end fittings A8 and A10 in stainless steel



Gas springs ranging from model GS-15 to GS-40 are available in **Stainless Steel 1.4301 / 1.4305**

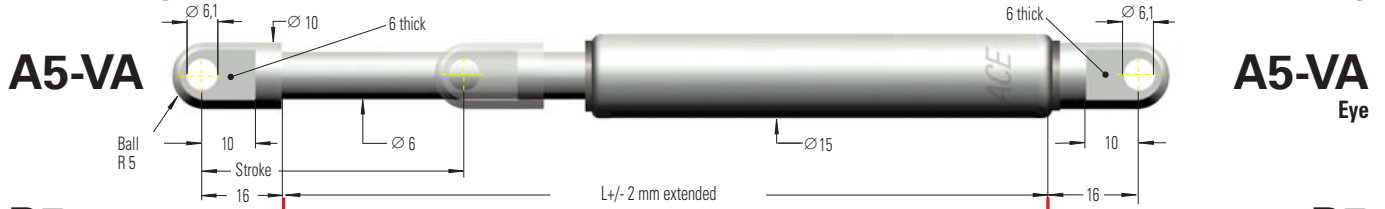
There are end fittings similar to our standard range available.



### End Fitting

### Standard Dimensions

### End Fitting

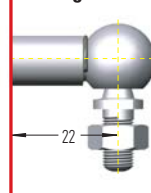
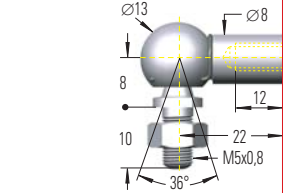


### B5

### Stud Thread B5

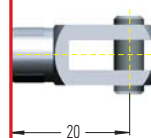
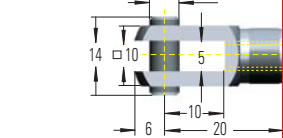
### C5-VA

### Angle Ball Joint C5-VA



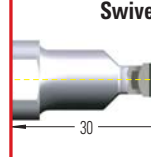
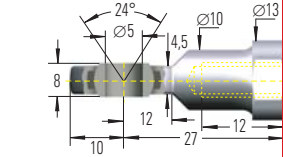
### D5-VA

### Clevis Fork D5-VA



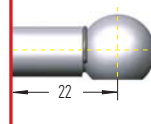
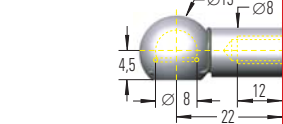
### E5-VA

### Swivel Eye E5-VA



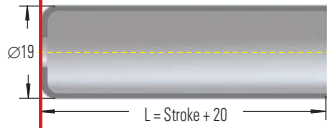
### G5-VA

### Ball Socket G5-VA



### W5-15-VA

### Rod Shroud



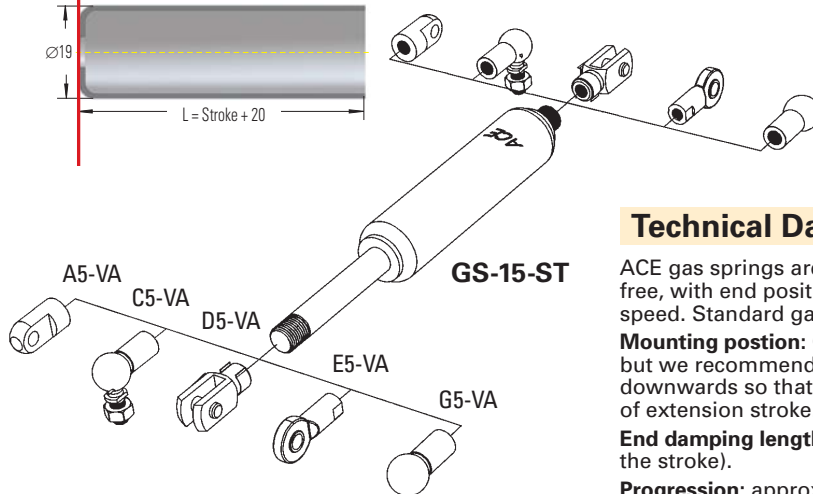
### Dimensions

Type	Stroke mm	L Extended
GS-15-20	20	72
GS-15-40	40	112
GS-15-50	50	132
GS-15-60	60	152
GS-15-80	80	192
GS-15-100	100	232
GS-15-120	120	272
GS-15-150	150	332

### Ordering Example GS-15-150-AC-150-ST

Type (Push Type) ↑  
 Body ø (15 mm) ↑  
 Stroke (150 mm) ↑  
 Piston Rod End Fitting A5-VA ↑  
 Body End Fitting C5-VA ↑  
 Nominal Force F<sub>1</sub> 150 N ↑  
 Indicates stainless steel ↑

The end fittings are interchangeable.  
 Available up to 300 mm stroke.



### Technical Data

ACE gas springs are self-contained and maintenance free, with end position damping and normal extension speed. Standard gas springs with valve.

**Mounting position:** Can be mounted in any position but we recommend mounting with the piston rod downwards so that the damping is effective at end of extension stroke.

**End damping length:** approx. 20 mm (depending on the stroke).

**Progression:** approx. 34 %, F<sub>2</sub> max. 490 N.

**Operating temperature:** -20°C to 80°C.

**Operating fluid:** Nitrogen gas and oil (for end damping).

**Available force range F<sub>1</sub> at 20°C:** 40 to 400 N

**Material:** Piston rod, body and end fittings: material 1.4301/1.4305.

**To special order:** Without damping, increased end position damping, special force curves, special lengths, alternative end fittings.

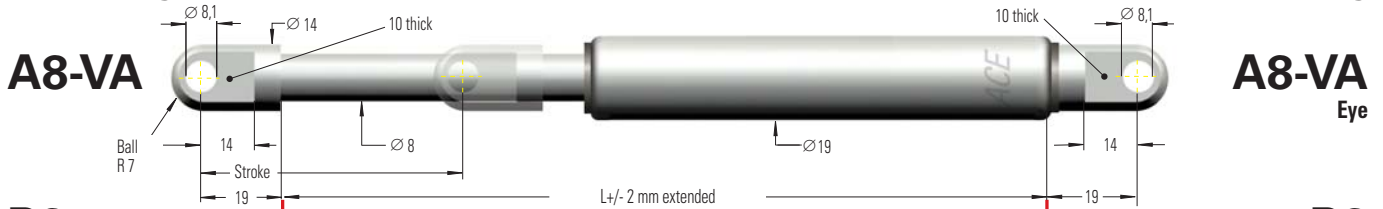
See page 120.

### U5 Adjuster Knob

### End Fitting

### Standard Dimensions

### End Fitting

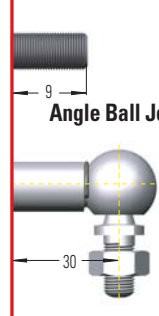
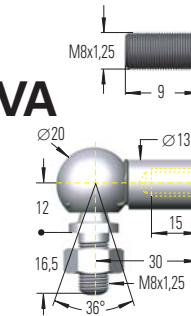


### B8

### Stud Thread B8

### C8-VA

### Angle Ball Joint C8-VA



### Dimensions

Type	Stroke mm	L Extended
GS-19-50	50	164
GS-19-100	100	264
GS-19-150	150	364
GS-19-200	200	464
GS-19-250	250	564
GS-19-300	300	664

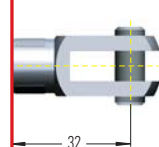
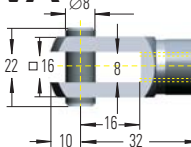
### Ordering Example GS-19-150-AC-600-ST

Type (Push Type) \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑  
 Body ø (19 mm) \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑  
 Stroke (150 mm) \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑  
 Piston Rod End Fitting A8-VA \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑  
 Body End Fitting C8-VA \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑  
 Nominal Force F<sub>1</sub> 600 N \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑  
 Indicates stainless steel \_\_\_\_\_ ↑ ↑ ↑ ↑ ↑ ↑

The end fittings are interchangeable.  
 Available up to 500 mm stroke.

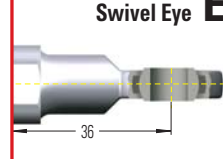
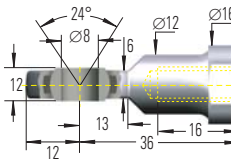
### D8-VA

### Clevis Fork D8-VA



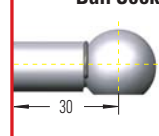
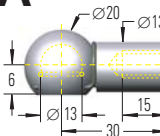
### E8-VA

### Swivel Eye E8-VA



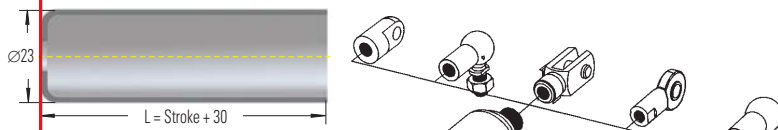
### G8-VA

### Ball Socket G8-VA



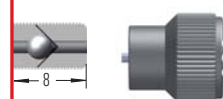
### W8-19-VA

### Rod Shroud

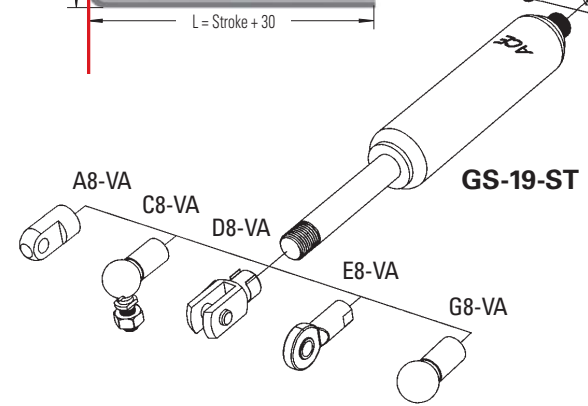


### U8

### Adjuster Knob



See page 120.



### Technical Data

ACE gas springs are self-contained and maintenance free, with end position damping and normal extension speed. Standard gas springs with valve.

**Mounting position:** Can be mounted in any position but we recommend mounting with the piston rod downwards so that the damping is effective at end of extension stroke.

**End damping length:** approx. 20 mm (depending on the stroke).

**Progression:** approx. 33 %, F<sub>2</sub> max. 910 N.

**Operating temperature:** -20°C to 80°C.

**Operating fluid:** Nitrogen gas and oil (for end damping).

**Available force range F<sub>1</sub> at 20°C:** 50 to 700 N

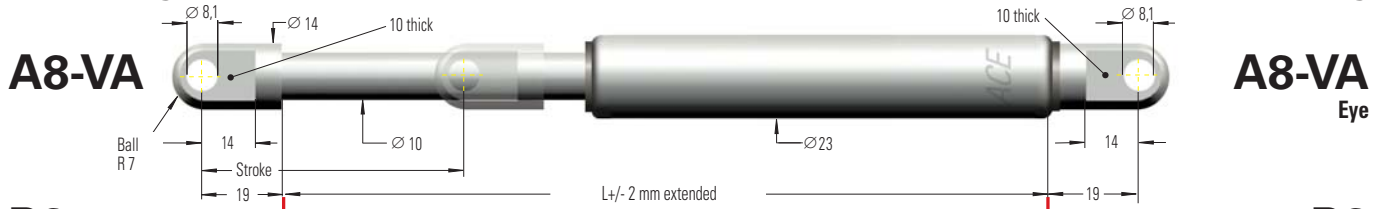
**Material:** Piston rod, body and end fittings: material 1.4301/1.4305.

**To special order:** Without damping, increased end position damping, lockable rod shroud, special force curves, special lengths, alternative end fittings.

### End Fitting

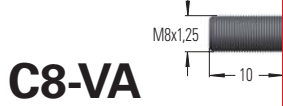
### Standard Dimensions

### End Fitting



### B8

### Stud Thread B8

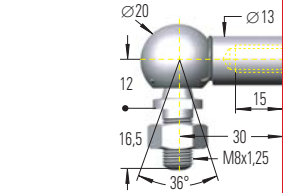


### C8-VA



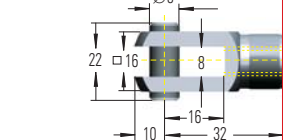
### Angle Ball Joint C8-VA

(Max. permitted force 1200 N)



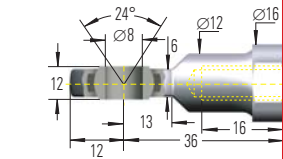
### D8-VA

### Clevis Fork D8-VA



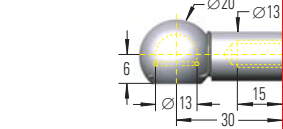
### E8-VA

### Swivel Eye E8-VA



### G8-VA

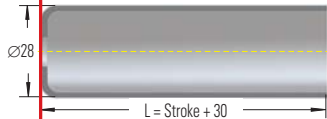
### Ball Socket G8-VA



(Max. permitted force 1200 N)

### W8-22-VA

Rod Shroud



### U8

Adjuster Knob



See page 120.

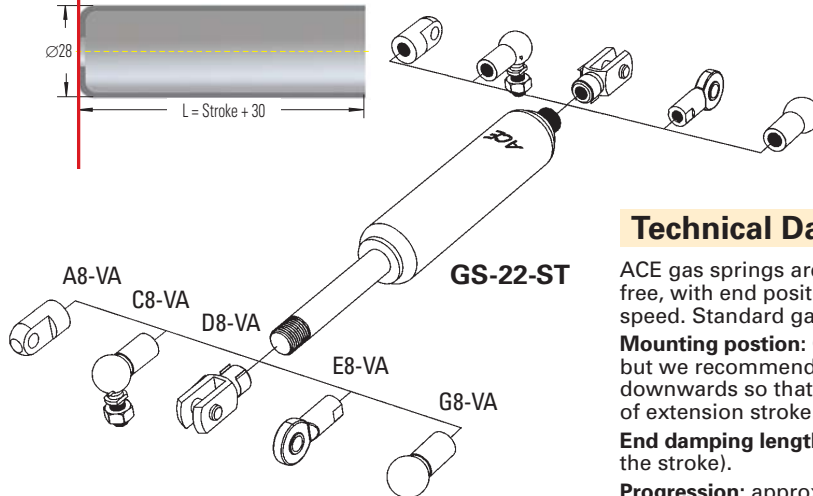
### Dimensions

Type	Stroke mm	L Extended
GS-22-50	50	164
GS-22-100	100	264
GS-22-150	150	364
GS-22-200	200	464
GS-22-250	250	564
GS-22-300	300	664
GS-22-350	350	764
GS-22-400	400	864
GS-22-450	450	964
GS-22-500	500	1064
GS-22-550	550	1164
GS-22-600	600	1264
GS-22-650	650	1364
GS-22-700	700	1464

### Ordering Example GS-22-150-AE-800-ST

Type (Push Type) \_\_\_\_\_  
 Body ø (23 mm) \_\_\_\_\_  
 Stroke (150 mm) \_\_\_\_\_  
 Piston Rod End Fitting A8-VA \_\_\_\_\_  
 Body End Fitting E8-VA \_\_\_\_\_  
 Nominal Force F<sub>1</sub> 800 N \_\_\_\_\_  
 Indicates stainless steel \_\_\_\_\_

The end fittings are interchangeable.



### Technical Data

ACE gas springs are self-contained and maintenance free, with end position damping and normal extension speed. Standard gas springs with valve.

**Mounting position:** Can be mounted in any position but we recommend mounting with the piston rod downwards so that the damping is effective at end of extension stroke.

**End damping length:** approx. 20 mm (depending on the stroke).

**Progression:** approx. 32 %, F<sub>2</sub> max. 1560 N

**Operating temperature:** -20°C to 80°C.

**Operating fluid:** Nitrogen gas and oil (for end damping).

**Available force range F<sub>1</sub> at 20°C:** 100 to 1200 N

**Material:** Piston rod, body and end fittings: material 1.4301/1.4305.

**To special order:** Without damping, increased end position damping, lockable rod shroud, special force curves, special lengths, alternative end fittings.