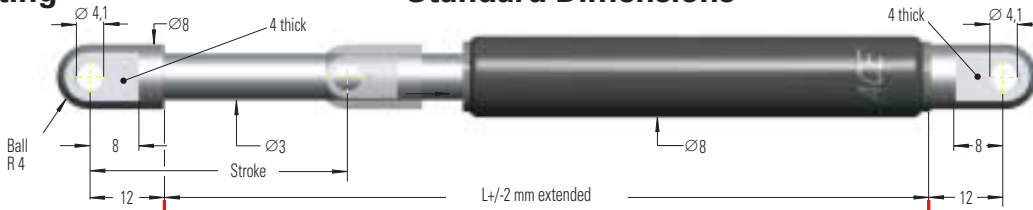


End Fitting

Standard Dimensions

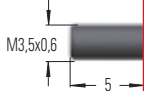
End Fitting

A3.5



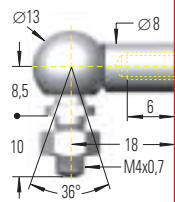
A3.5

B3.5



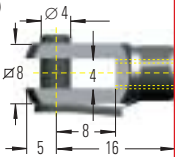
B3.5

C3.5



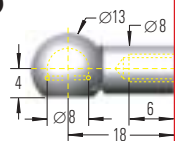
DIN 71802 C3.5

D3.5



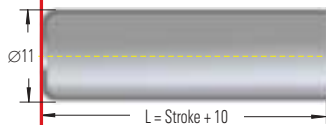
DIN 71752 D3.5

G3.5



DIN 71805 G3.5

W3.5-8
Rod Shroud



Dimensions

Type	Stroke mm	L Extended
GS-8-20	20	72
GS-8-30	30	92
GS-8-40	40	112
GS-8-50	50	132
GS-8-60	60	152
GS-8-80	80	192

Ordering Example

GS-8-30-AC-V-30

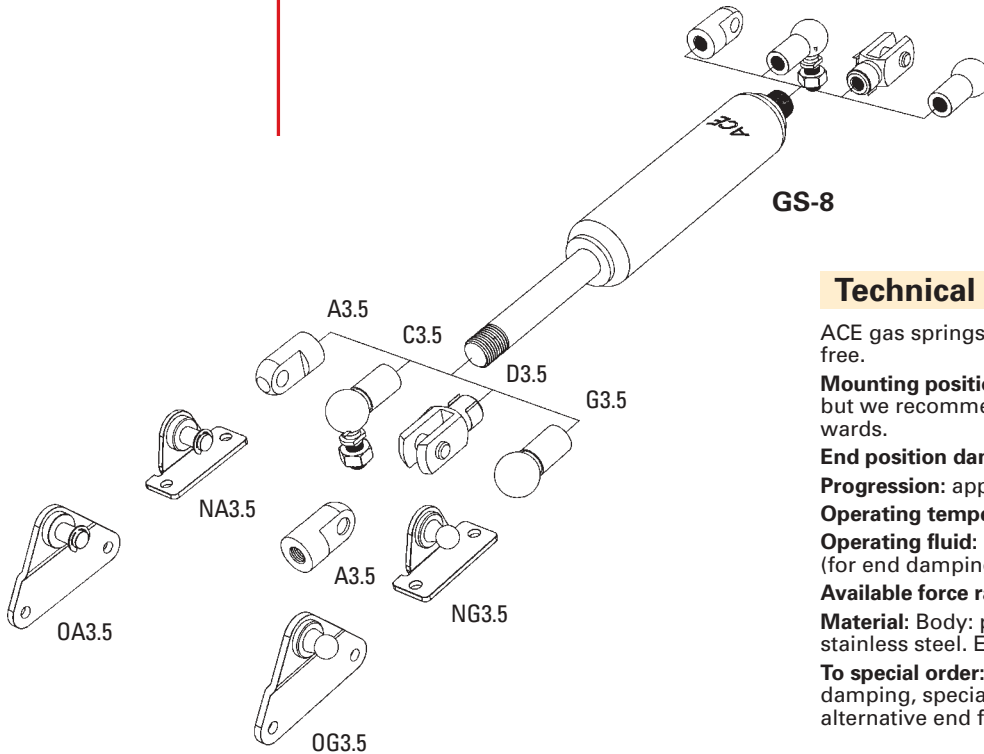
Type (Push Type) _____
 Body ø (8 mm) _____
 Stroke (30 mm) _____
 Piston Rod End Fitting A3.5 _____
 Body End Fitting C3.5 _____
 Valve V3.5 _____
 Nominal Force F1 30 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 122.

U3.5
Adjuster Knob

V3.5
Adjustment Valve

GS-8



Technical Data

ACE gas springs are self-contained and maintenance free.

Mounting position: Can be mounted in any position but we recommend mounting with piston rod downwards.

End position damping length: approx. 10 mm.

Progression: approx. 28%, F₂ max. 130 N.

Operating temperature range: -20°C to +80°C.

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

Available force range F₁ at 20°C: 10 to 100 N.

Material: Body: powder coated steel. Piston rod: stainless steel. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths, alternative end fittings.

End Fitting

Standard Dimensions

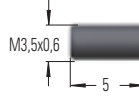
End Fitting

A3.5



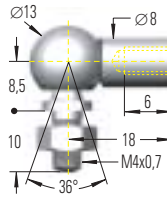
A3.5

B3.5



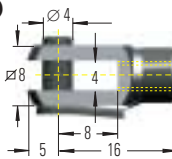
B3.5

C3.5



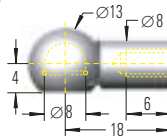
DIN 71802 C3.5

D3.5



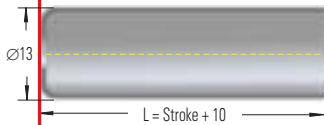
DIN 71752 D3.5

G3.5



DIN 71805 G3.5

W3.5-10
Rod Shroud



U3.5
Adjuster Knob

V3.5
Adjustment Valve

Dimensions

Type	Stroke mm	L Extended
GS-10-20	20	72
GS-10-30	30	92
GS-10-40	40	112
GS-10-50	50	132
GS-10-60	60	152
GS-10-80	80	192

Ordering Example

GS-10-80-AC-V-60

Type (Push Type) _____
 Body \varnothing (10 mm) _____
 Stroke (80 mm) _____
 Piston Rod End Fitting A3.5 _____
 Body End Fitting C3.5 _____
 Valve V3.5 _____
 Nominal Force F_1 60 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 122.

GS-10

Technical Data

ACE gas springs are self-contained and maintenance free.

Mounting position: Can be mounted in any position but we recommend mounting with piston rod downwards.

End position damping length: approx. 5 mm.

Progression: approx. 20 %, F_2 max. 120 N.

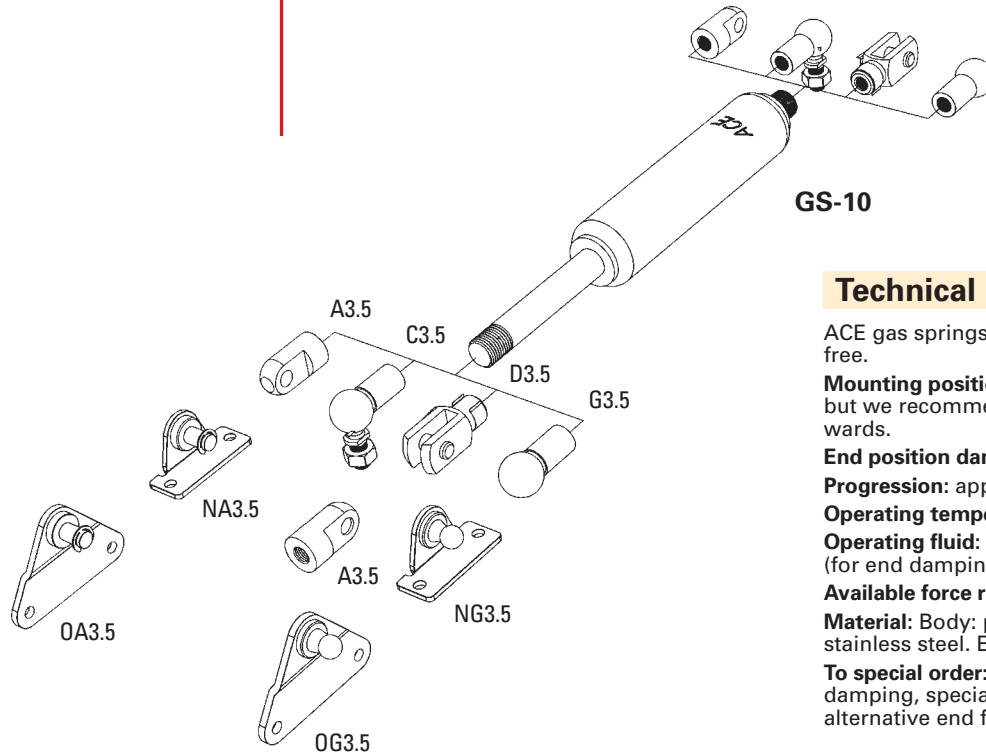
Operating temperature range: -20°C to +80°C.

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

Available force range F_1 at 20°C: 10 to 100 N.

Material: Body: powder coated steel. Piston rod: stainless steel. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths, alternative end fittings.



End Fitting

Standard Dimensions

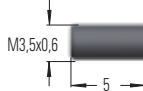
End Fitting

A3.5



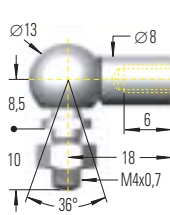
A3.5

B3.5



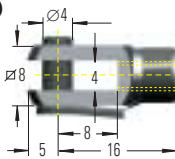
B3.5

C3.5



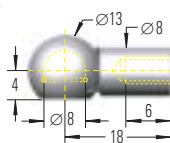
DIN 71802 C3.5

D3.5



DIN 71752 D3.5

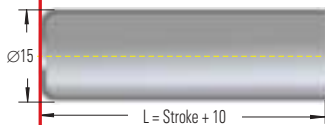
G3.5



DIN 71805 G3.5

W3.5-12

Rod Shroud



Dimensions

Type	Stroke mm	L Extended	Max. F ₁
GS-12-20	20	72	180 N
GS-12-40	40	112	180 N
GS-12-50	50	132	180 N
GS-12-60	60	152	180 N
GS-12-80	80	192	150 N
GS-12-100	100	232	150 N
GS-12-120	120	272	120 N
GS-12-150	150	332	100 N

Ordering Example

Type (Push Type) _____
 Body ø (12 mm) _____
 Stroke (100 mm) _____
 Piston Rod End Fitting A3.5 _____
 Body End Fitting A3.5 _____
 Valve V3.5 _____
 Nominal Force F₁ 30 N _____

GS-12-100-AA-V-30

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 122.

U3.5
Adjuster Knob

V3.5
Adjustment Valve

GS-12

Technical Data

ACE gas springs are self-contained and maintenance free.

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 position damping length: approx. 10 mm.

Progression: approx. 25 %, F₂ max. 225 N.

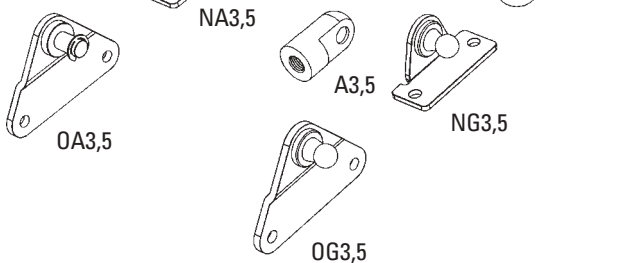
Operating temperature range: -20°C to +80°C.

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

Available force range F₁ at 20°C: 10 to 180 N.

Material: Body: powder coated steel. Piston rod: stainless steel. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths (max. 150 mm stroke), alternative end fittings.

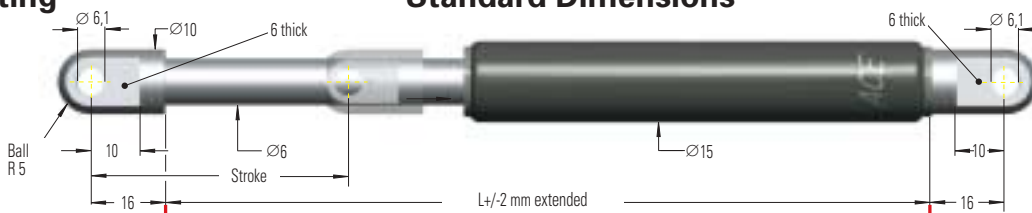


End Fitting

Standard Dimensions

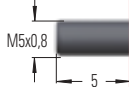
End Fitting

A5



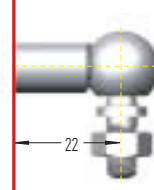
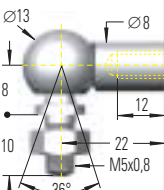
A5

B5



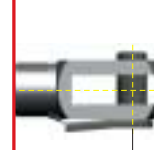
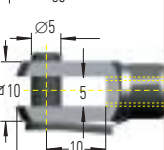
B5

C5



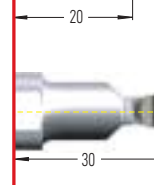
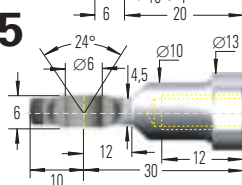
DIN 71802 C5

D5



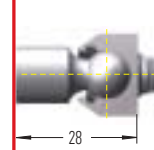
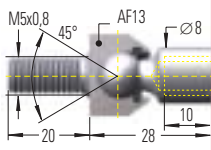
DIN 71752 D5

E5



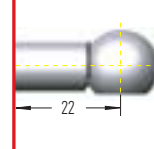
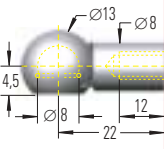
DIN 648 E5

F5



F5

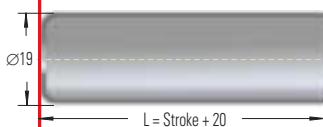
G5



DIN 71805 G5

W5-15

Rod Shroud



Dimensions

Type	Stroke mm	L Extended
GS-15-20	20	66
GS-15-40	40	106
GS-15-50	50	126
GS-15-60	60	146
GS-15-80	80	186
GS-15-100	100	226
GS-15-120	120	266
GS-15-150	150	326

Ordering Example GS-15-150-AC-V-400

Type (Push Type) _____
 Body ø (15 mm) _____
 Stroke (150 mm) _____
 Piston Rod End Fitting A5 _____
 Body End Fitting C5 _____
 Valve V5 _____
 Nominal Force F1 400 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 122.

GS-15

V5

Adjustment Valve

U5
Adjuster Knob

Technical Data

ACE gas springs are self-contained and maintenance free.

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 position damping length: approx. 10 mm.

Progression: approx. 27 %, F₂ max. 500 N.

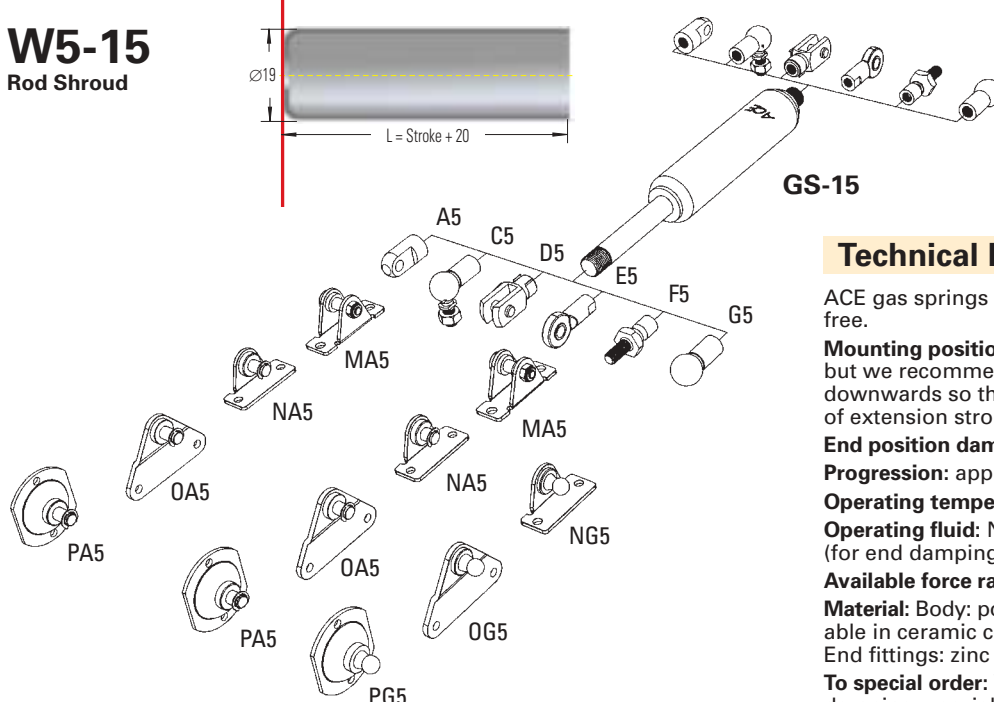
Operating temperature range: -20°C to +80°C.

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

Available force range F₁ at 20°C: 10 to 400 N.

Material: Body: powder coated steel. Piston rod: available in ceramic coated steel and hard chrome plated. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths (max. 250 mm stroke), alternative end fittings.



NEW

End Fitting

Standard Dimensions

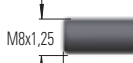
End Fitting

A8



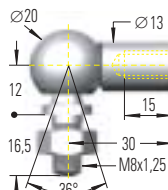
A8

B8



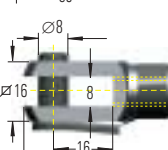
B8

C8



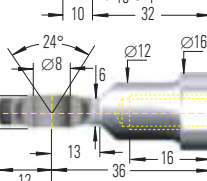
DIN 71802 C8

D8



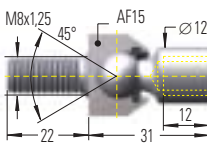
DIN 71752 D8

E8



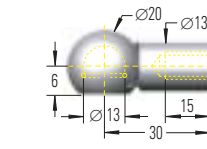
DIN 648 E8

F8



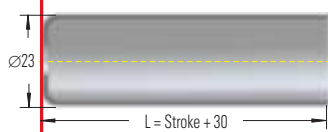
F8

G8



DIN 71805 G8

W8-19 Rod Shroud



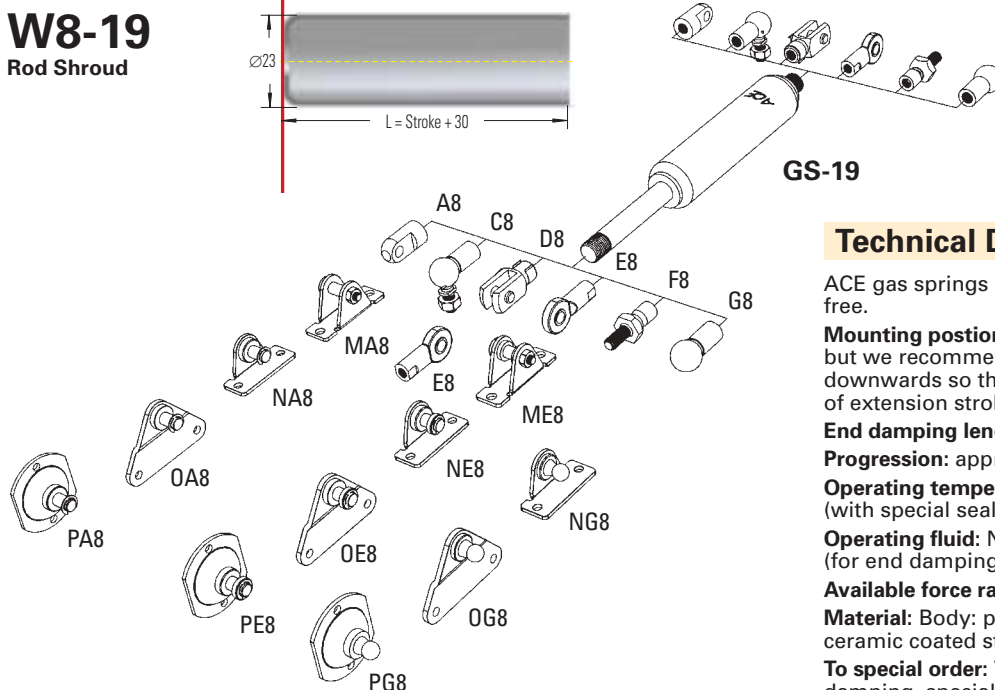
Dimensions

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-V-600

Type (Push Type) _____
 Body ø (19 mm) _____
 Stroke (150 mm) _____
 Piston Rod End Fitting A8 _____
 Body End Fitting C8 _____
 Valve V8 _____
 Nominal Force F1 600 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 123.



GS-19

V8 Adjustment Valve

Technical Data

ACE gas springs are self-contained and maintenance free.

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. 10 mm.

Progression: approx. 33 %, F₂ max. 930 N.

Operating temperature: -20°C to +80°C (with special seals up to 200°C).

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

Available force range F₁ at 20°C: 50 to 700 N.

Material: Body: powder coated steel. Piston rod: ceramic coated steel. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths, alternative end fittings.

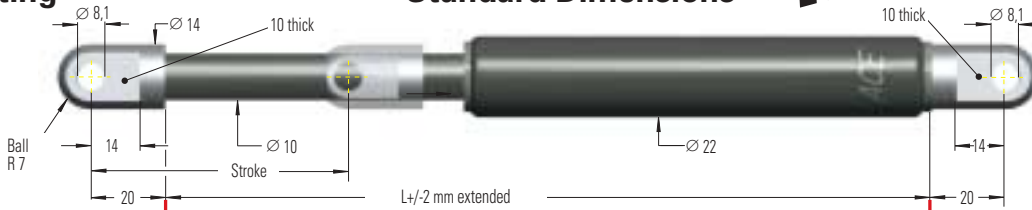
NEW

End Fitting

Standard Dimensions

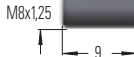
End Fitting

A8



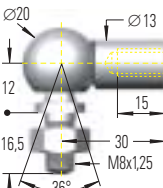
A8

B8



B8

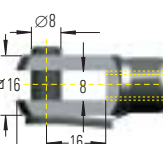
C8



DIN 71802 C8

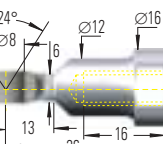
(Max. permitted force 1200 N)

D8



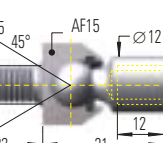
DIN 71752 D8

E8



DIN 648 E8

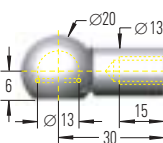
F8



F8

(Max. permitted force 1200 N)

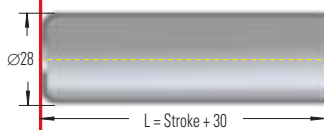
G8



DIN 71805 G8

(Max. permitted force 1200 N)

W8-22
Rod Shroud



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-V-800

Type (Push type) _____
 Body \varnothing (22 mm) _____
 Stroke (150 mm) _____
 Piston Rod End Fitting A8 _____
 Body End Fitting E8 _____
 Valve V8 _____
 Nominal Force F_1 800 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 123.

V8

Adjustment Valve

GS-22

Technical Data

ACE gas springs are self-contained and maintenance free.

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

End damping length: approx. 10 mm.

Progression: approx. 38%, F_2 max. 1800 N.

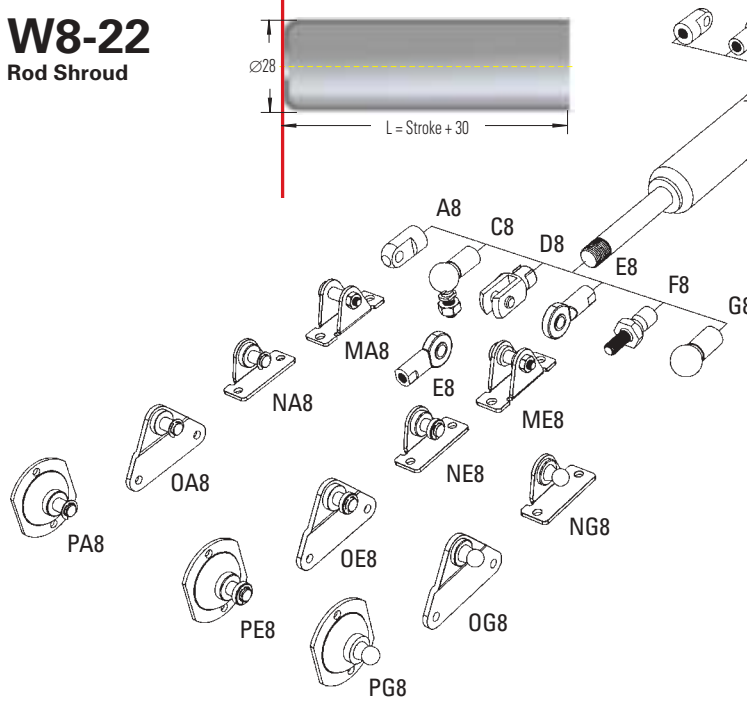
Operating temperature range: -20°C to +80°C (with special seals up to 200°C).

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

Available force range F_1 at 20°C: 80 to 1300 N.

Material: Body: powder coated steel. Piston rod: ceramic coated steel. End fittings: zinc plated steel.

To special order: Without damping, extended length, damping, special force curves, special lengths, alternative end fittings.



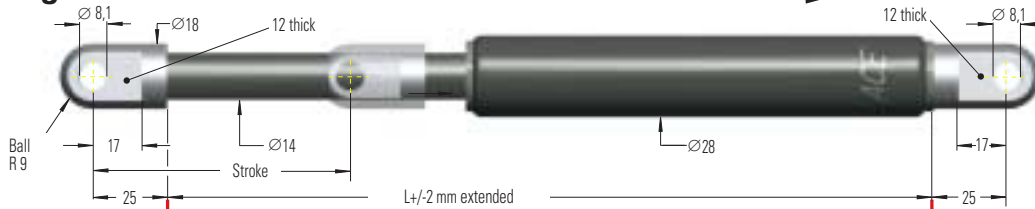
NEW

End Fitting

Standard Dimensions

End Fitting

A10



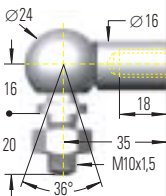
A10

B10

M10x1.5

9

C10



DIN 71802 C10

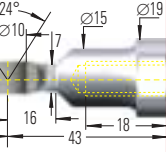
(Max. permitted force 1800 N)

D10



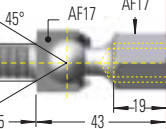
DIN 71752 D10

E10



DIN 648 E10

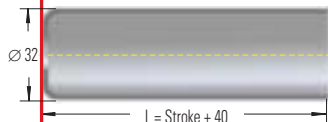
F10



F10

(Max. permitted force 1800 N)

W10-28
Rod Shroud



Dimensions

Type	Stroke mm	L Extended
GS-28-100	100	262
GS-28-150	150	362
GS-28-200	200	462
GS-28-250	250	562
GS-28-300	300	662
GS-28-350	350	762
GS-28-400	400	862
GS-28-450	450	962
GS-28-500	500	1062
GS-28-550	550	1162
GS-28-600	600	1262
GS-28-650	650	1362
GS-28-700	700	1462
GS-28-750	750	1562

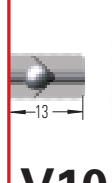
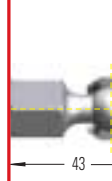
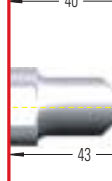
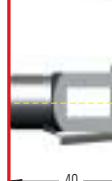
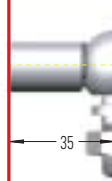
Ordering Example GS-28-150-EE-V-1200

Type (Push type) _____
 Body ϕ (28 mm) _____
 Stroke (150 mm) _____
 Piston Rod End Fitting E10 _____
 Body End Fitting E10 _____
 Valve V10 _____
 Nominal Force F_1 1200 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 123.



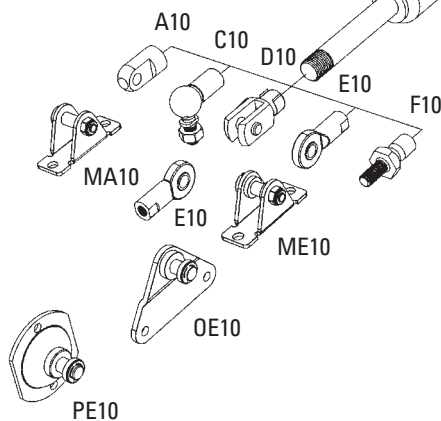
B10



U10
Adjuster Knob

V10
Adjustment Valve

GS-28



Technical Data

ACE gas springs are self-contained and maintenance free.

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

End damping length: approx. 10 mm.

Progression: approx. 52 %, F_2 max. 3800 N.

Operating temperature range: -20°C to +80°C (with special seals up to 200°C).

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

Available force range F_1 at 20°C: 100 to 2500 N.

Material: Body: powder coated steel. Piston rod: ceramic coated steel. End fittings: zinc plated steel.

To special order: without damping, extended length damping, special force curves, special lengths, alternative end fittings.

NEW

End Fitting

Standard Dimensions

End Fitting

A14



B14

C14

D14

E14

F14

W14-40
Rod Shroud

Dimensions

Type	Stroke mm	L Extended
GS-40-100	100	317
GS-40-150	150	417
GS-40-200	200	517
GS-40-300	300	717
GS-40-400	400	917
GS-40-500	500	1117
GS-40-800	800	1717
GS-40-1000	1000	2117

Ordering Example GS-40-150-DD-V-3500

Type (Push type) _____
 Body ø (40 mm) _____
 Stroke (150 mm) _____
 Piston Rod End Fitting D14 _____
 Body End Fitting D14 _____
 Valve V14 _____
 Nominal Force F₁ 3500 N _____

The end fittings are interchangeable.
 For adjustment valve add suffix -V.
 For mounting accessories see page 124.

A14

B14

DIN 71802 C14

(Max. permitted force 3200 N)

DIN 71752 D14

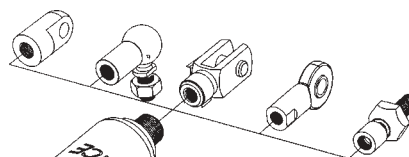
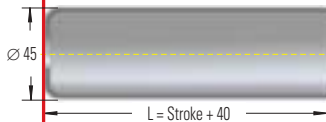
DIN 648 E14

F14

(Max. permitted force 3200 N)

U14
Adjuster Knob

V14
Adjustment Valve



GS-40

Technical Data

ACE gas springs are self-contained and maintenance free.

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

End damping length: approx. 10 mm.

Progression: approx. 30%, F₂ max. 6500 N.

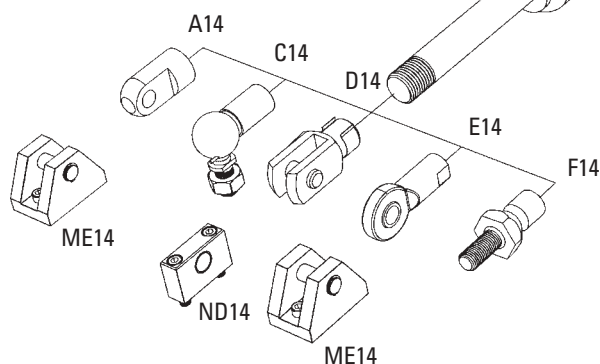
Operating temperature range: -20°C to +80°C (with special seals up to 200°C).

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

Available force range F₁ at 20°C: 500 to 5000 N.

Material: Body: powder coated steel. Piston rod: ceramic coated steel. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths, alternative end fittings.

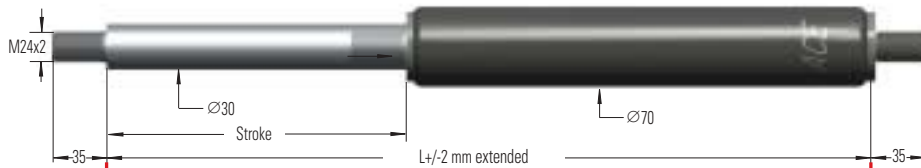


End Fitting

Standard Dimensions

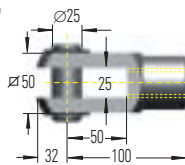
End Fitting

B24

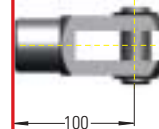


B24

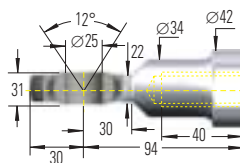
D24



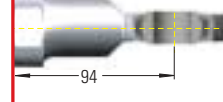
DIN 71752 **D24**



E24



DIN 648 **E24**



Dimensions

Type	Stroke mm	L Extended
GS-70-100	100	320
GS-70-200	200	520
GS-70-300	300	720
GS-70-400	400	920
GS-70-500	500	1120
GS-70-600	600	1320
GS-70-700	700	1520
GS-70-800	800	1720

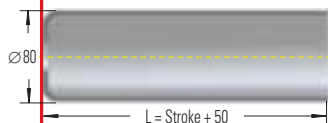
Ordering Example GS-70-200-EE-8000

Type (Push Type) _____
 Body \varnothing (70 mm) _____
 Stroke (200 mm) _____
 Piston Rod End Fitting E24 _____
 Body End Fitting E24 _____
 Nominal Force F_1 8000 N _____

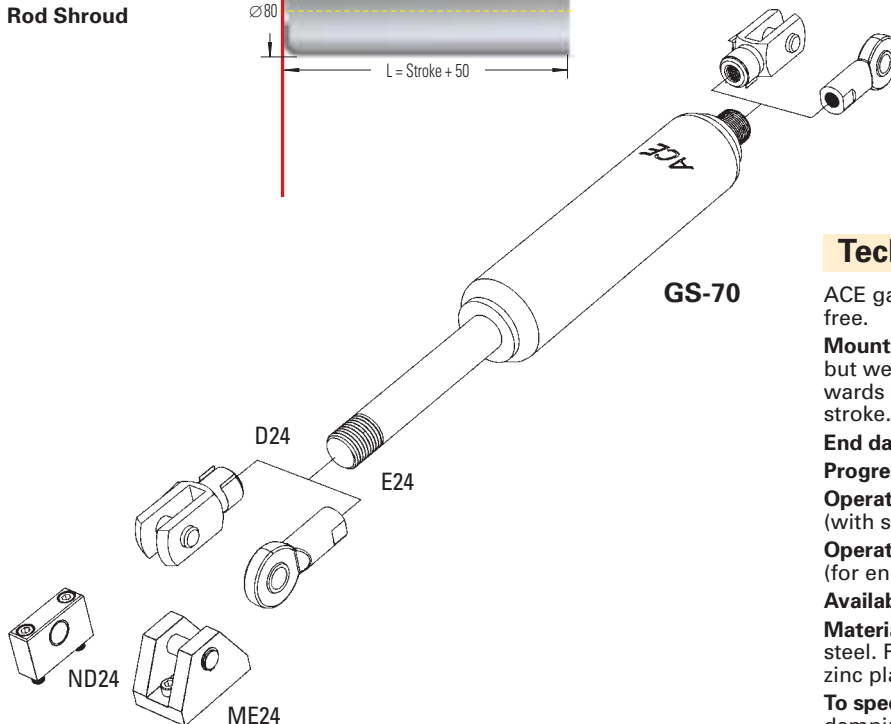
The end fittings are interchangeable.
 For mounting accessories see page 124.
 Standard version includes valve.

W24-70

Rod Shroud



GS-70



Technical Data

ACE gas springs are self-contained and maintenance free.

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

End damping length: approx. 10 mm.

Progression: approx. 25%, F_2 max. 16 250 N.

Operating temperature range: -20°C to +80°C (with special seals up to 200°C).

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

Available force range F_1 at 20°C: 2 000 to 13 000 N.

Material: Body: powder coated steel or zinc plated steel. Piston rod: hard chrome plated. End fittings: zinc plated steel.

To special order: Without damping, extended length damping, special force curves, special lengths, alternative end fittings.