

GZ-15 to GZ-40

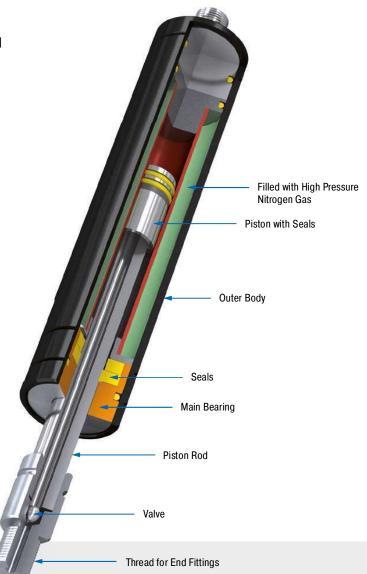
Very low progression rate

Valve Technology Traction force range 40 N to 5,000 N Stroke 20 mm to 650 mm

The solution to a lack of space: If standard push type gas springs cannot be used due to a lack of space, ACES' industrial pull type gas springs come into their own. They work in the opposite way to standard push type gas springs. The piston rod is retracted when the cylinder is unloaded. The gas pressure in the cylinder draws the piston rod in.

ACE pull type gas springs offer the maximum service life thanks to the solid chrome-plated piston rod and an integrated sliding bearing. The maintenance-free and ready-to-install products are available in body diameters of 15 to 40 mm as well as forces from 40 to 5,000 N and are available from stock with valve and large selection of accessories. The traction force can be subsequently adjusted using the valve.

Gas traction springs from ACE are used in industrial applications, especially in mechanical engineering and in medical technology as well as in the electronics and furniture industries.



Technical Data

Traction force: 40 N to 5,000 N Piston rod diameter: Ø 4 mm to Ø 28 mm Progression: approx. 12 % to 45 % Lifetime: Approx. 2,000 m

Operating temperature range: -20 °C to

+80 °C

Material: Outer body, End fittings: zinc plated steel; Piston rod: steel or stainless steel with

wear-resistant coating

Operating fluid: nitrogen gas **Mounting:** with piston rod upwards

End position damping length: Without damping. For end position damping use damping material (e.g. TUBUS or SLAB).

Positive stop: External positive stop at the end of stroke provided by the customer.

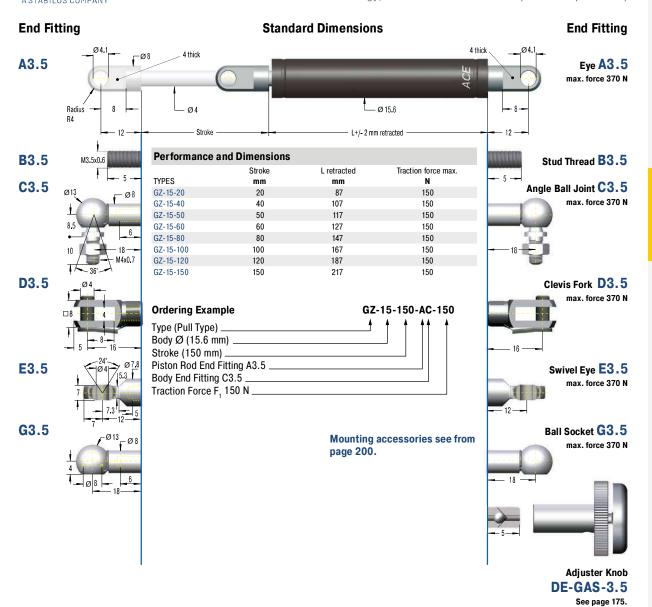
Application field: hoods, shutters, machine housing, conveyor systems, control boxes, furniture industry, shipbuilding, assembly stations, vehicle technology, folding elements

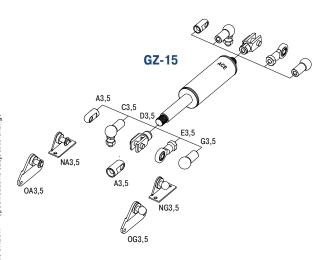
End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

On request: Special oils and other special options. Alternative accessories. Traction gas springs with end position damping also available on request.



Valve Technology, Traction force 50 N to 150 N (extended up to 183 N)





Technical Data

Traction force: 50 N to 150 N (extended up to 183 N)

Progression: Approx. 12 % to 22 % **Lifetime:** Approx. 2,000 m

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

Material: Outer body, End fittings: zinc plated steel; Piston rod:

stainless steel (1.4301/1.4305, AISI 304/303)

Mounting: with piston rod upwards

End position damping length: Without damping. For end position

damping use damping material (e.g. TUBUS or SLAB).

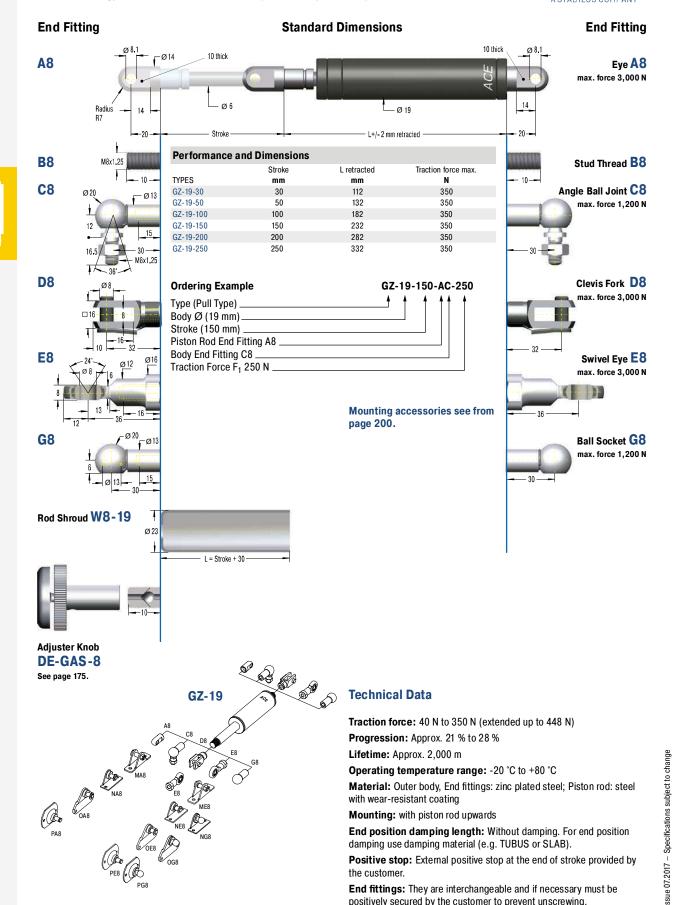
 $\textbf{Positive stop:} \ \, \textbf{External positive stop at the end of stroke provided by} \\$

the customer.

End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

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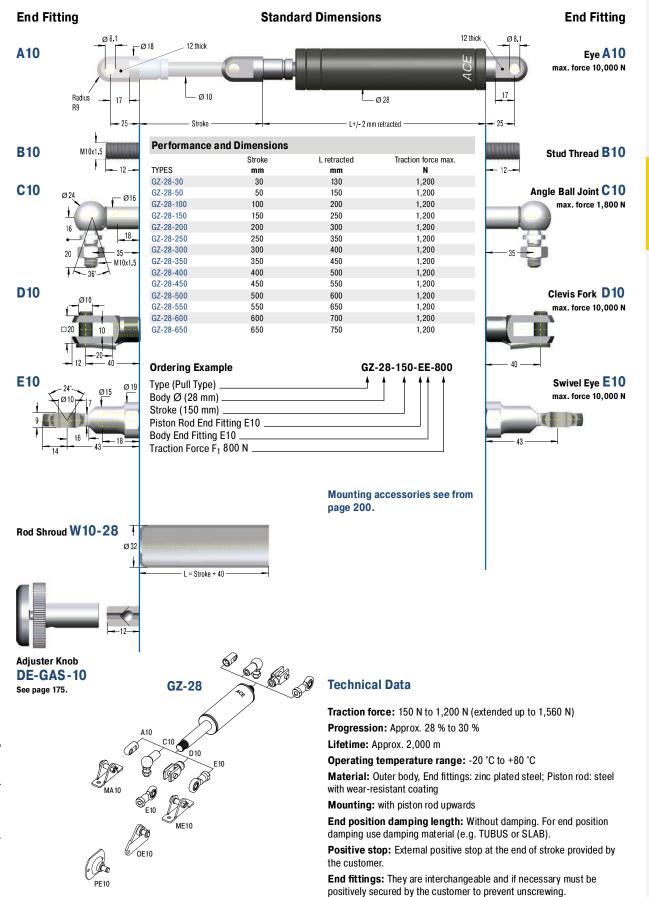
Valve Technology, Traction force 40 N to 350 N (extended up to 448 N)



End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.

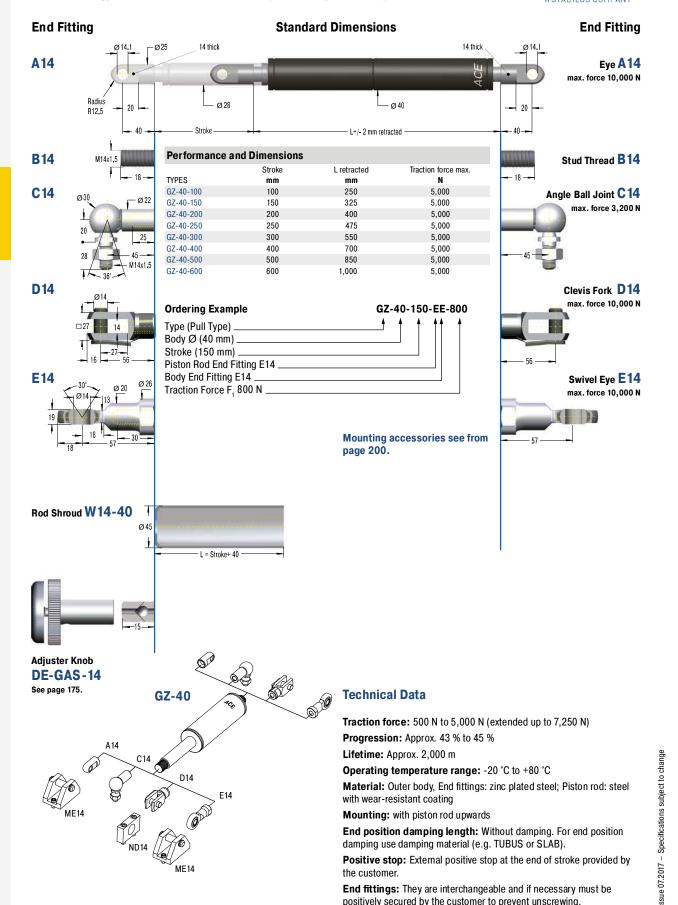


Valve Technology, Traction force 150 N to 1,200 N (extended up to 1,560 N)



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Valve Technology, Traction force 500 N to 5,000 N (extended up to 7,250 N)



End fittings: They are interchangeable and if necessary must be positively secured by the customer to prevent unscrewing.