

Reference Part Number:

**ST 250 0180 VD8**

## Product Description

Standard steel compression gas spring from the 8-18 series. This device is designed for controlled lifting, lowering, and counterbalancing of lids, hatches, and industrial equipment. Features a nitrided steel rod for superior friction control and corrosion resistance.

## Technical Specifications (8-18 Series)

Rod Diameter (d)	8 mm
Cylinder Diameter (D)	18 mm
Stroke (S)	250 mm
Nominal Force (F1)	180 Newtons (N)
Extended Length (EL)	~585 mm (Center to Center)
End Fittings (V/D8)	Welded Eyelets (Ø 8 mm hole)
Material (Body)	Black Epoxy Coated Steel
Material (Rod)	Nitrided Steel (Black)

## Operational Characteristics

- **Temperature Range:** -30°C to +80°C.
- **Force Variation:** Approximately 3.3% per 10°C deviation from 20°C.
- **Damping:** Integrated hydraulic end-of-travel damping (final 20-30mm).
- **Maximum Speed:** ~0.5 m/s.

## Installation Guidelines

For optimal longevity and performance, the gas spring must be installed with the **piston rod pointing downwards** in its most frequent resting position. This ensures the internal oil provides lubrication to the seals and hydraulic damping at the end of the stroke.

**SAFETY NOTICE:** Gas springs contain high-pressure Nitrogen gas. Do not open, puncture, or expose to high heat. Avoid any lateral forces on the rod to prevent bending or seal failure. Ensure all mounting hardware is securely fastened.