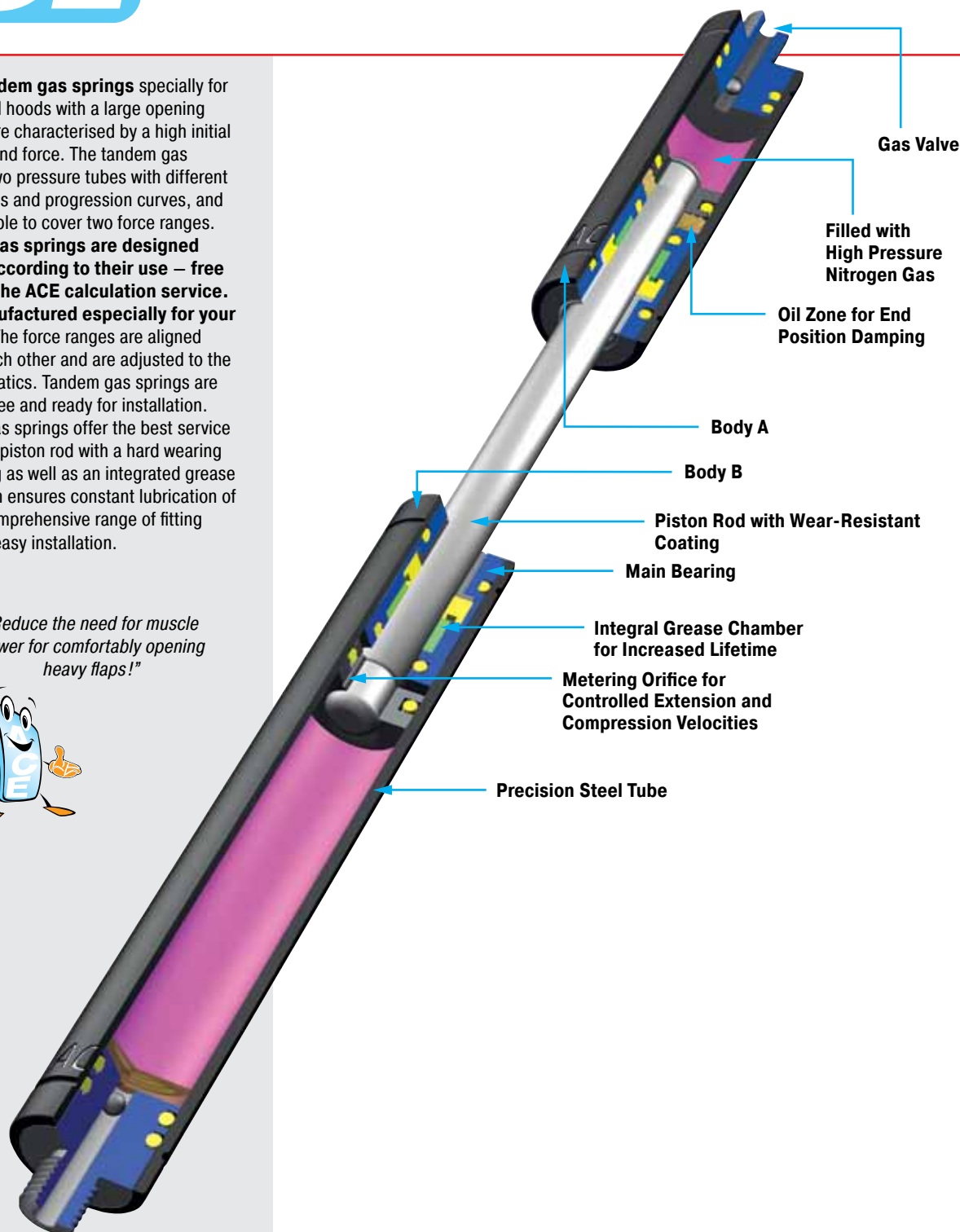


ACE offers **tandem gas springs** specially for heavy flaps and hoods with a large opening angle. These are characterised by a high initial force and low end force. The tandem gas springs have two pressure tubes with different extension forces and progression curves, and are therefore able to cover two force ranges.

**The tandem gas springs are designed individually according to their use – free of charge by the ACE calculation service.**

**They are manufactured especially for your application.** The force ranges are aligned precisely to each other and are adjusted to the required kinematics. Tandem gas springs are maintenance free and ready for installation. ACE tandem gas springs offer the best service life based on a piston rod with a hard wearing surface coating as well as an integrated grease chamber, which ensures constant lubrication of the seals. A comprehensive range of fitting parts ensures easy installation.

*"Reduce the need for muscle power for comfortably opening heavy flaps!"*



**Operating fluid:** Nitrogen gas and oil

**Material:** Piston rod: With wear-resistant coating. Bodies and end fittings: Zinc plated steel.

**Mounting:** According to calculation. Please adopt the mounting points determined by ACE.

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

**On request:** Material 1.4301/1.4305, AISI 304/303 (V2A) and material 1.4404/1.4571, AISI 316L/316Ti (V4A).

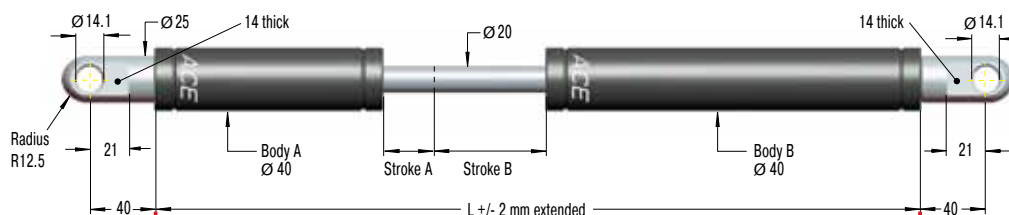


### End Fitting

### Standard Dimensions

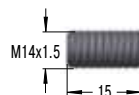
### End Fitting

**A14**



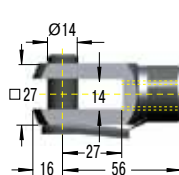
**Eye A14**  
max. force 10 000 N

**B14**



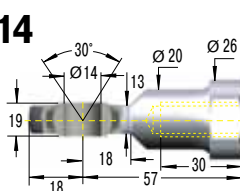
**Stud Thread B14**

**D14**



**Clevis Fork D14**  
max. force 10 000 N

**E14**



**Swivel Eye E14**  
max. force 10 000 N

#### Dimensions

Type	Stroke A mm	Stroke B mm	L extended
GST-40-50-100	50	100	485
GST-40-50-150	50	150	585
GST-40-50-200	50	200	685
GST-40-70-250	70	250	825
GST-40-70-300	70	300	925
GST-40-70-350	70	350	1 025
GST-40-70-400	70	400	1 125

#### Ordering Example

**GST-40-50-150-AD-900N-2500N**

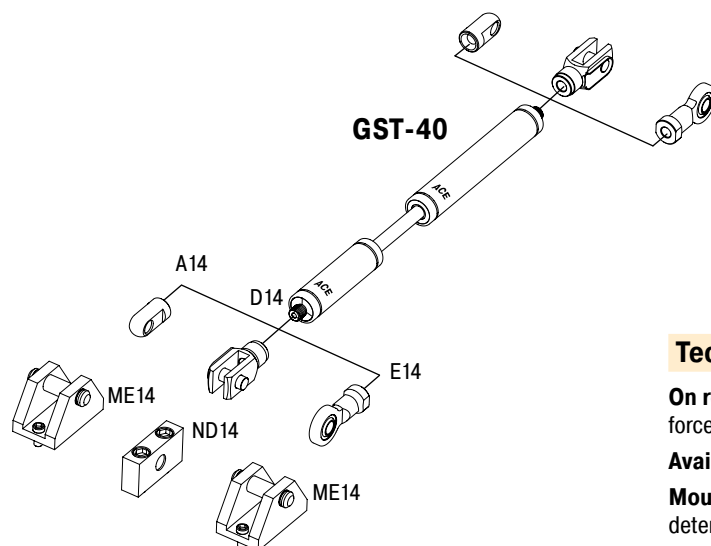
Type (Tandem Gas Spring) \_\_\_\_\_  
 Body Ø (40 mm) \_\_\_\_\_  
 Stroke A (50 mm) \_\_\_\_\_  
 Stroke B (150 mm) \_\_\_\_\_  
 Body A End Fitting, A14 \_\_\_\_\_  
 Body B End Fitting, D14 \_\_\_\_\_  
 Nominal Force Body A, 900 N \_\_\_\_\_  
 Nominal Force Body B, 2500 N \_\_\_\_\_

The end fittings are interchangeable.

These gas springs are tailored to the relevant application and are therefore not available ex stock.

For mounting accessories see page 187.

### GST-40



For mounting  
accessories  
see page 187.

#### Technical Data

**On request:** Without damping, standard end position damping, special force curves, special lengths, alternative end fittings, wiper.

**Available force range  $F_1$  at 20 °C:** 300 N to 5000 N

**Mounting:** According to calculation. Please adopt the mounting points determined by ACE.

**End position damping length:** Application-specific end position damping and extension speed.

**Material:** Piston rod: With wear-resistant coating. Bodies and end fittings: Zinc plated steel.

**Progression:** According to calculation relating to your application.