

## SWIFT & SURE



Swift & Sure is one of ArvinMeritor's most popular Gas Springs and is available in an extensive range of sizes and end fittings for a wide variety of applications.

Swift & Sure is an entirely self-contained, maintenance free, hydro pneumatic ram which is charged under pressure with an inert gas. It has the characteristics of a compression spring which, coupled with a small change in force as it extends, provides a controlled rate of movement. At the end of the extension stroke, oil damping occurs due to a hydraulically cushioned zone. These features help protect hinges and mounts by applying constant force with a damped end of travel.

ArvinMeritor prides itself on its service to customers, with design engineers on hand to work with you using the latest CAD/CAE techniques. Recognising that no two applications are the same, ArvinMeritor provides engineered solutions to meet your exact requirement.

Together, we can select the most appropriate Gas Spring for your application, and provide prototypes quickly for testing on your application.

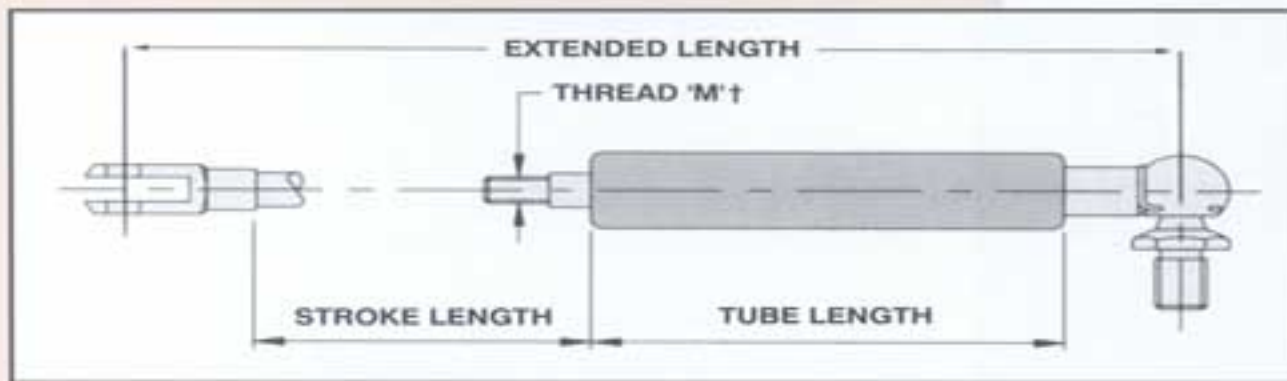
ArvinMeritor's Swift & Sure Gas Springs are ideally suited for use on car tailgates/bonnets, lockers, machine guards, access panels, hood supports and hatch covers.

### Benefits

- Self Contained unit and maintenance free
- Safe to use with easy finger-tip control
- Custom design, sized to your application
- Custom force setting or adjust-yourself option
- Over 2,500 different combinations
- BS EN ISO 9001 Registered Company

## An extensive range of sizes and forces

Swift & Sure Size Range	Range of Stroke Lengths (in 5mm increments)	Range of Tube Lengths (in 1mm increments)	Force Range (in 10 Newton increments)	Thread Type (M)†
SWF6-SWV6 (note 1) (6mm dia. rod, 15mm tube)	40-200	75-235	50-400 (11-90lbs)	M5 x 0.8
SW(note 3)8 (8mm dia. rod, 18mm tube)	40-300	85-345	100-650 (22-146lbs)	M6 x 1.0
SW(note 3)1 (10mm dia. rod, 23mm tube)	40-400	85-445	150-1200 (34-269lbs)	M8 x 1.25
SWF4/SWV4 (note1) (14mm dia. rod, 28mm tube)	40-500	95-555	200-2500 (45-562lbs)	M10 x 1.5



## Specifically engineered for your application

† See our End Fittings leaflet for the comprehensive range available with full dimensions.

If you have any questions about specifying gas springs, please call our Sales Office on 0116 274 3622/3623

### Note 1

For Vari-Lift:

Add 5mm for the valve when calculating extended length. Force is set to maximum as standard but can be pre-set lower as required. Part numbering example: Replace F with V (e.g. SWV6, SWV4). For SW(8-18) and SW(10-23), see Note 3 (Y or Z).

### Note 2

SW\*6 Add 30mm to stroke length to obtain minimum tube length  
 SW(note 3)8 Add 45mm to stroke length to obtain minimum tube length  
 SW(note 3)1 Add 45 mm to stroke length to obtain minimum tube length  
 SW\*4 Add 55mm to stroke length to obtain minimum tube length

### Note 3 (8-18 and 10-23 sizes only - part number example)

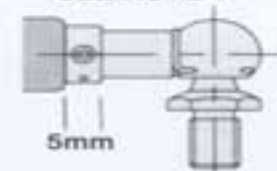
SWA8 or 1 = Fixed, High Force  
 SWB8 or 1 = Fixed, Low Force  
 SWY8 or 1 = Vari-Lift, High Force  
 SWZ8 or 1 = Vari-Lift, Low Force

High Force = above 300N (8-18) or above 400N (10-23)

Low Force = 300N and below (8-18) or 400N and below (10-23)

## With any combination of end fittings

### Vari-Lift Valve SEE NOTE 1



### Nylon Ball Joint



### Nylon Eye



### Flat Steel Eye



### Nylon Ball Cup



### Clevis Fork



### Steel Ball Joint



### Zinc Eye

