



SK SPRINGTM
Technologies Private Limited

GAS SPRINGS WITH ADVANCE DAMPING TECHNOLOGY





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DAMPING TESTING MACHINE



About Us

Sk Spring co. being a 40 year old enterprise has managed to become a renowned name in Automotive industry for its precision quality products. With a capacity of shaping 7000 tons of steel into products each year SK SPRING CO. has become a leading OE manufacturer and exporter of Precision Coil Springs , Gas Shocks , Wire Forms , Brake Shoe Hardware kits, Automotive Oil , Fuel and Air Filters , Fabricated sheet metal assemblies and pressings and stampings.

SKS has capabilities to cold coiling of springs up to 16.00mm (0.630 inch) for various applications ranging from Automotive, Agriculture , Industrial, Medical, Aerospace, Electrical, White Goods and Railways. With 3 dedicated plants catering to Springs, Filters and Sheet Metal fabrications for world over customers.

Presence in Automotive, Railways, Defense, Medical, Electrical, White goods, After Markets segments.

**“Best solution for lifting
Lids, Hoods, Panels and Guards
for wide range of applications”**

- AEROSPACE
- AMBULANCES
- AMUSEMENT PARK RIDES
- ARMORED CARS
- AWNINGS
- BELT TENSIONING
- BOTTLING
- BUSES
- CAMPERS & TRAVEL
- CAR BOOT
- CONVEYOR
- CARGO DOORS
- COUNTERBALANCE

- FIRE ESCAPE HATCHES
- FIRE TRUCKS
- FITNESS EQUIPMENT
- FOLDING BEDS
- FOLDING TREADMILLS
- FURNITURE CHEST LIDS.
- GURNEY BEDS
- LIDS, HOPPERS & FEEDERS
- MACHINE GUARDS
- MEDICAL EQUIPMENT
- MILITARY VEHICLES
- OFF ROAD MACHINERY
- PRINTING

- RECREATIONAL VEHICLES
- ROOF VENTILATION HATCHES
- SAFETY COVERS
- SEAT DAMPING
- SEATS
- SKYLIGHTS
- SUN ROOFS
- STAIR LIFTS
- TOOLBOXES
- TRUCK/BUS ENGINE COVERS
- WINDOWS
- WALKTHROUGHS

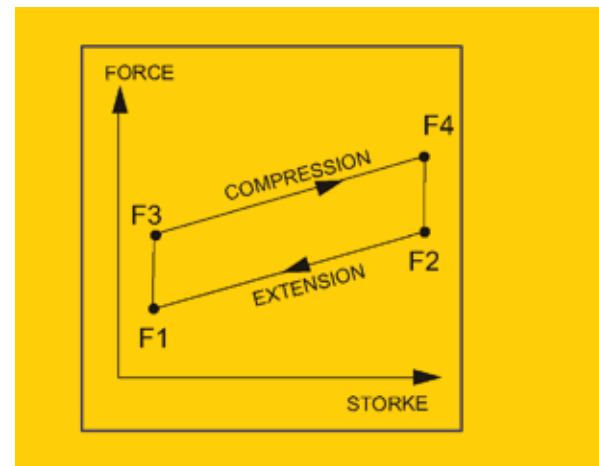
As compared to coil springs, gas spring has an extremely flat, nearly linear characteristic curve, which facilitates uniform comfortable adjustment or pivoting movement.

Also, its another advantage over mechanical spring, is damping. When gas spring is installed piston rod facing downwards, during extension it first travels through gas portion & then through oil portion. The oil dampens the movement & reduces the speed considerably.

However, the extension speed & damping characteristics can be adjusted as per applications requirement.

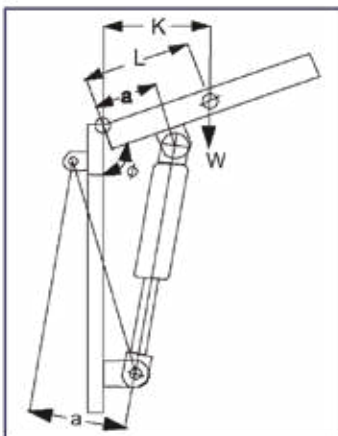
Other advantages & benefits are:

- Automatic & damped, force supported opening
- Secure holding in place
- Compact design
- Easy to mount
- Maintenance Free
- Modern Technology
- Fatigue Free
- Single person can lift heavy doors easily.



SK SPRING gas springs are maintenance-free. DO NOT oil or grease the piston rod! The piston rod must be protected from any hits, scratches or dirt and especially paint. Damage to the surface finish of the piston rod will destroy the sealing system and cause loss of pressure. The outer body must not be deformed or mechanically damaged.

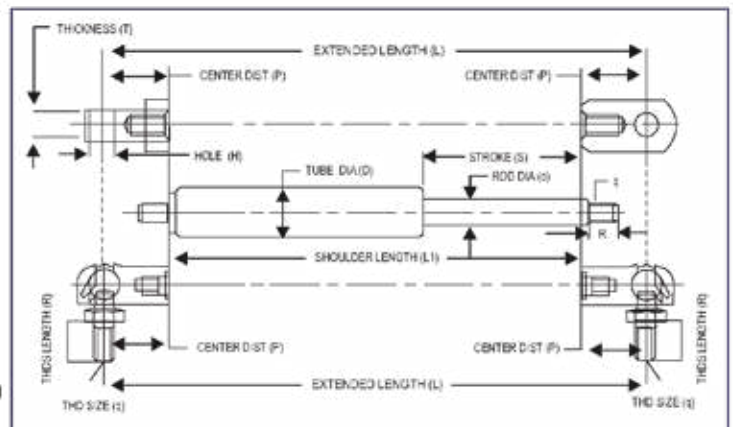
SK SPRING gas springs can be stored in any position. Experience has shown that long storage periods do not result in loss of pressure. However you may experience some "stiction" requiring a higher effort to move the gas spring for the first time after a long storage period.



Calculations for Force F1 in Newton

$$F1 = \frac{W \times K}{a \times n} \times 13 \text{ (N)}$$

- W = Weight of flap in Kg
- L = Distance of center of gravity from hinge in mm
- a = Effective lever arm of gas spring in mm, flap open
- 13 = Constant
- K = Effective lever arm of center of gravity flap open
- n = No of gas springs (Normally n = 2)
- φ = Opening Angle

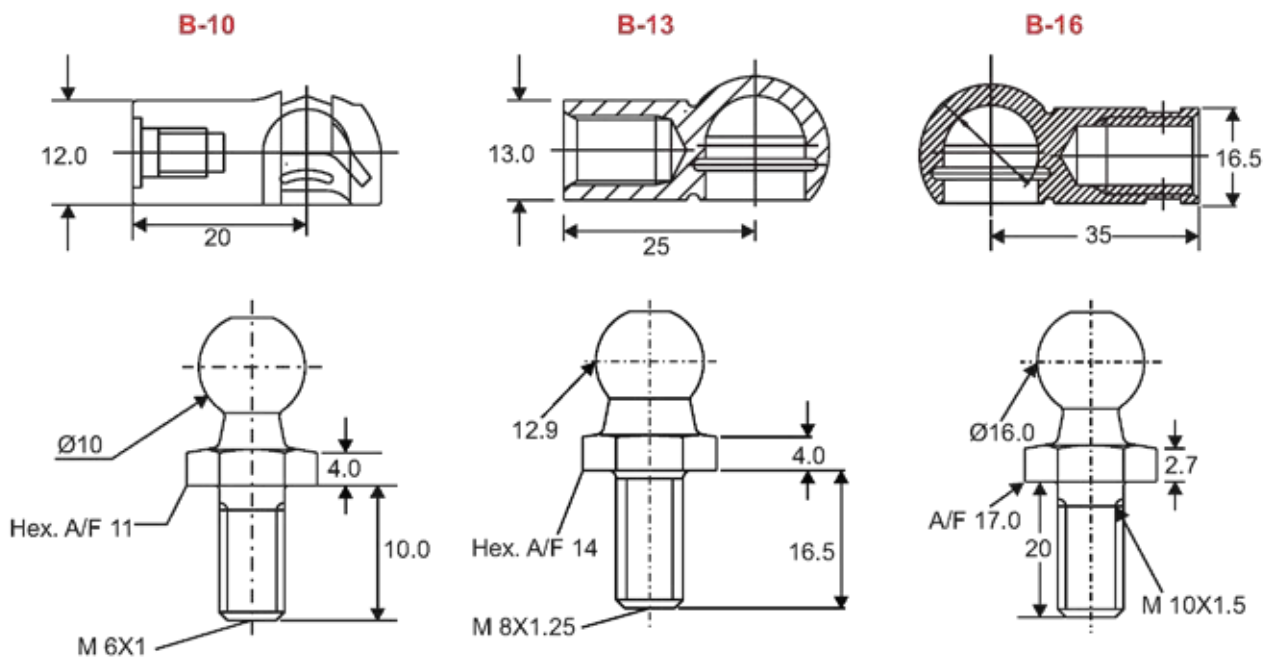


CAPACITY CHART:

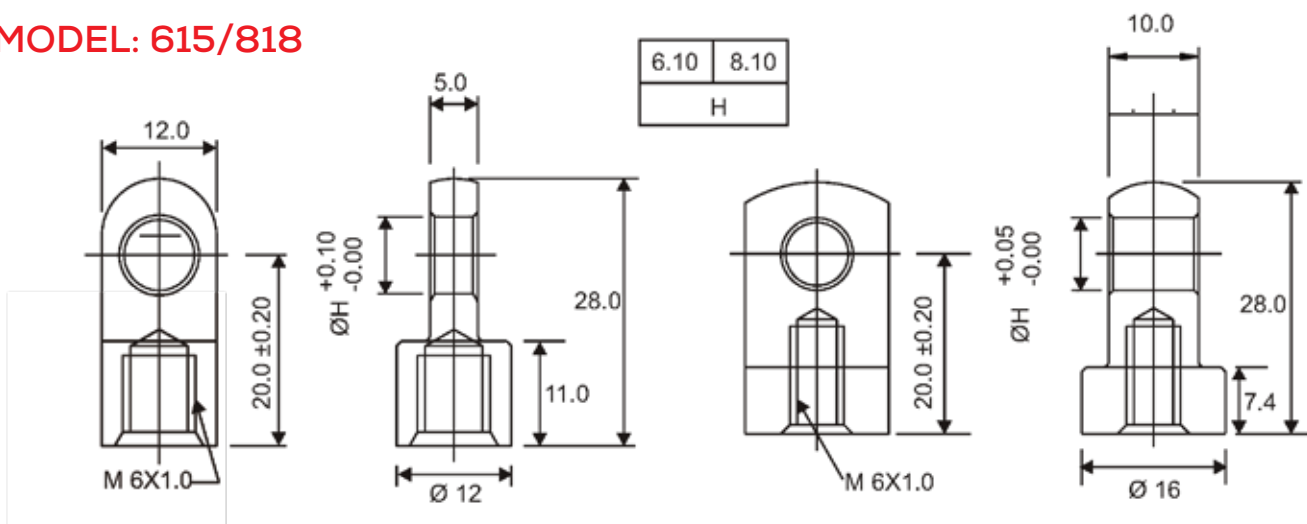
MODEL	EXT LENGTH(mm)		STROKE(mm)		FORCE(N) (F1)		STANDARD STROKES
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
615	86.0	360.0	25.0	140.0	50.0	300.0	60,94,140
818	91.0	725.0	25.0	300.0	50.0	500.0	60,94,140
1021	141.0	800.0	25.0	350.0	100.0	800.0	100,150,277
1028	210.0	820.0	25.0	350.0	100.0	800.0	100,150,200
1428	210.0	820.0	50.0	350.0	200.0	1750.0	100,250,300



END FITTINGS:

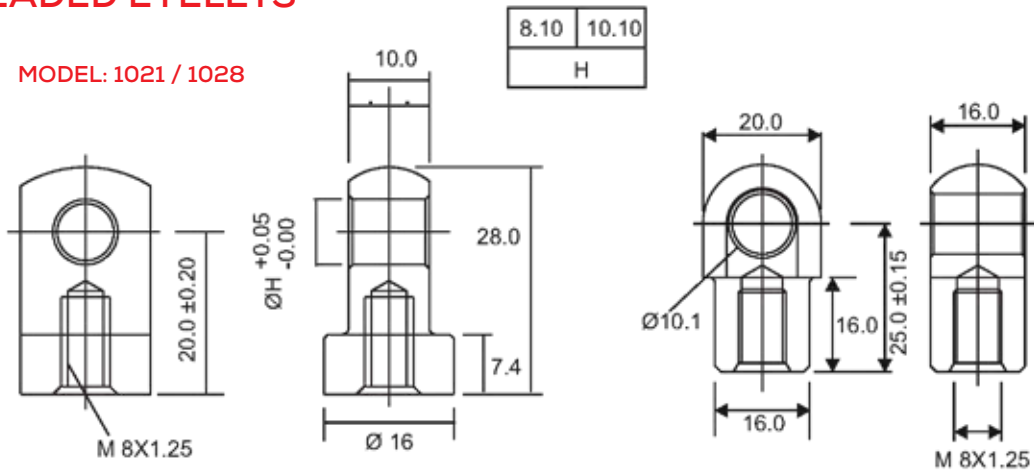


MODEL: 615/818

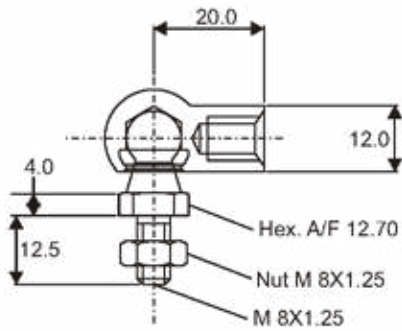


THREADED EYELETS

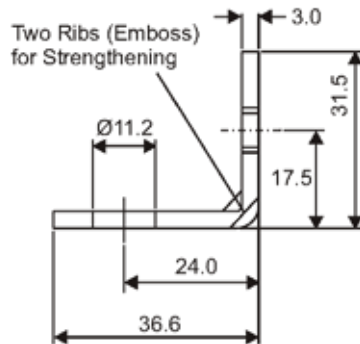
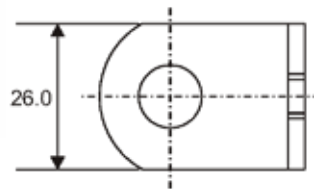
MODEL: 1021 / 1028



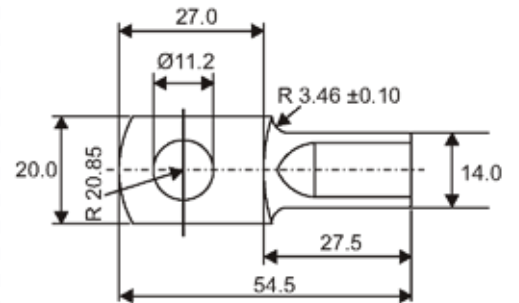
B-10 METALLIC BALL JOINT



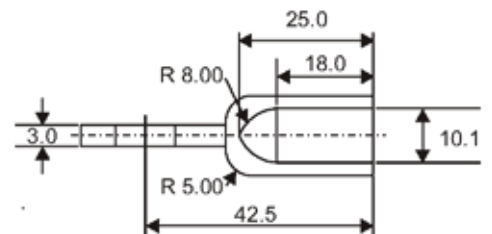
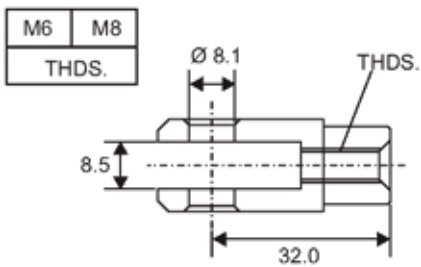
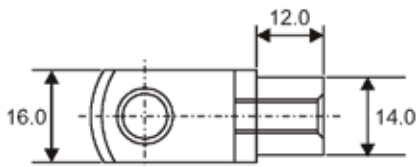
L-BRACKET



END BRACKET



FORK



Industrial Gas Springs



Automotive Applications



Other Applications



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The piston rod must be protected from any hits, scratches or dirt and especially paint. Damage to the surface finish of the piston rod will destroy the sealing system and cause loss of pressure. The outer body must not be deformed or mechanically damaged.

SK Spring gas springs can be stored in any position. Experience has shown that long storage periods do not result in loss of pressure. However you may experience some "stiction" requiring a higher effort to move the gas spring for the first time after a long storage period. Generally, SK Spring gas springs are tested to 70,000 strokes. Depending upon the application and operating environment, the service life of these gas springs may be much longer. 500,000 strokes or more have been achieved on some applications.

TESTED
70 000*
STROKES





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