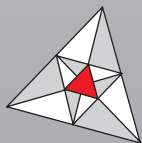


# GAS SPRINGS & GAS STRUTS

- GB SERIES
- GH SERIES
- GL SERIES



**Akcelport industries**

ISO 9001 : 2015 & OHSAS 18001 : 2007 Certified Company

13, Shah Industrial Estate, Deonar, Chembur,  
Mumbai - 400 088, India.

Tel.: +91 - 22 - 255 5888, Telefax : +91 - 22 - 2506 4667

E-mail : [mail@akcelport.com](mailto:mail@akcelport.com), Web : [www.akcelport.com](http://www.akcelport.com)

## GB SERIES

**GB SERIES** is a lockable gas spring, which can be blocked in any desired position in the extension or compression travel. They provide high rigidity when the shaft is pulled or compressed and offer high resistance to jerks & shocks.

These gas springs can be designed for rigid & elastic locking in both extension & compression movement. The piston rod of this lockable gas spring can be adjusted in every required position of the whole stroke by actuating the release pin. The gas spring thus provides comfort & secure locking in seating and reclining application.

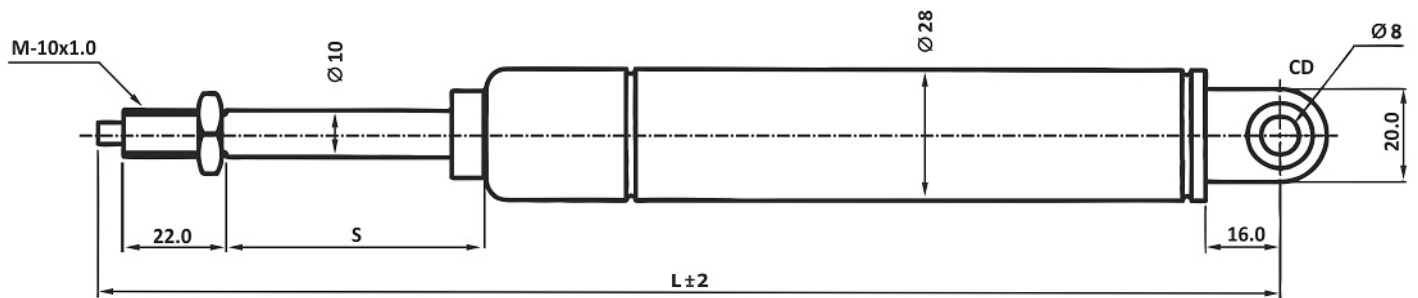
### Areas of Application

- Recliner for luxury bus seats, car seats, train seats
- Dental equipment and ophthalmic seats
- In swivel chairs for back rest adjustment
- Beauty parlor chairs, wheel chairs drafting tables, work benches
- Hospital beds and operation tables



### Advantages

- Smooth, jerk-free and speed controlled movement
- Light weight, compact and easy installation
- Easy back rest adjustment for optimum comfort for the seat occupant



**GB SERIES** standard selection chart

MODEL	S (stroke) mm	L (extended length) mm	F Force (N)
GB 2810 - 50	55	253	300 to 500
GB 2810 - 100	105	392	300 to 500
GB 2810 - 150	155	517	300 to 500
GB 2810 - 200	205	642	300 to 500

# GH SERIES

**GH SERIES** gas springs are used for office chairs & various other systems where step-less height adjustment is required. Until the introduction of gas springs, the heights of chairs were adjusted manually. But of late, gas springs are being widely used as compact elements for chair height adjustments. This gas spring facilitates ergonomic characteristics in seating systems. When the chair is under load, on pressing the lever, the chair slides downward and when the chair is off load it rises up at a constant speed. The desired height can be achieved by pressing the lever in both the upward or downward movement. This gas spring adds more comfort by giving a cushioning effect while seating on the chair. The cushioning effect resists or reduces the pressure on the back while sitting or occupying the chair for a long period.

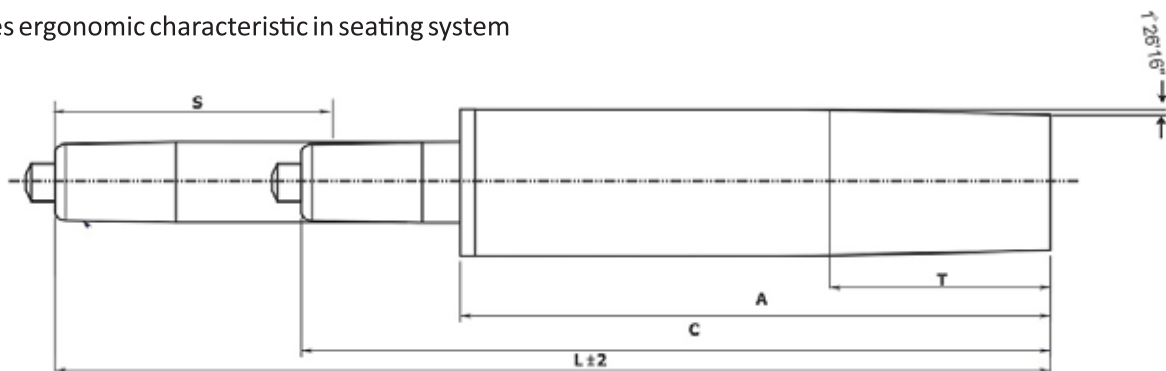
## Areas of Application

- Swivel Chairs for efficient and infinite adjustment
- Industrial chairs and stools for ergonomic seating in the industry
- Dental stools, Work tables, Beauty parlour and ophthalmic chairs
- Driver seats for buses, tractors and construction equipments



## Advantages

- Ease of height adjustment to suit the mood of the occupant and to achieve the operational height for comfort and better productivity
- Slight cushioning effect in the block condition reduces the pressure on the back while occupying the chair for a long period
- Easy Installation
- Facilitates ergonomic characteristic in seating system



**GH SERIES** standard selection chart

MODEL	A (Tube Length) mm	L (Extended length) mm	C (Compressed length) mm	S (Stroke) mm	T Taper Length	F Force (N)
GH-75	160	295	220	75	73	300 to 500
GH-75 (Extra taper)	160	295	220	75	82	300 to 500
GH-100	197	339	244	100	73	300 to 500
GH-120	197	392	272	120	73	300 to 500
GH-250 (Chrome plated)	380	693	450	250	73	300 to 500

## GL SERIES

**GL SERIES** gas springs are non-lockable, having a hydro pneumatic ram which is charged under pressure with an inert gas. It has the characteristics of a compression spring with a small change in force as it extends and provides a controlled rate of movement. At the end of the extension stroke, oil damping occurs due to a hydraulic cushioned zone. These features help protect hinges and mounts by applying constant force with a damped cushioning effect at the end of the stroke.

The gas springs are used for various types of lifting or opening of flaps shutters, covers, hoods etc., thereby acting as counter weight with a smooth travel. This spring makes the lifting or opening very convenient and easy thereby eliminating the actual load or weight to zero or negligible.

### Areas of Application

- Flaps, Shutters, Covers, Hoods, Canopy doors etc.
- Automobile Hatch-back, Bonnet & Passenger Buses Luggage Boots
- Various Machines, Clamping Fixtures, Textile Machine, Counter Balancer
- Furniture Cabinet, Windows, Home Appliances & Health care equipments

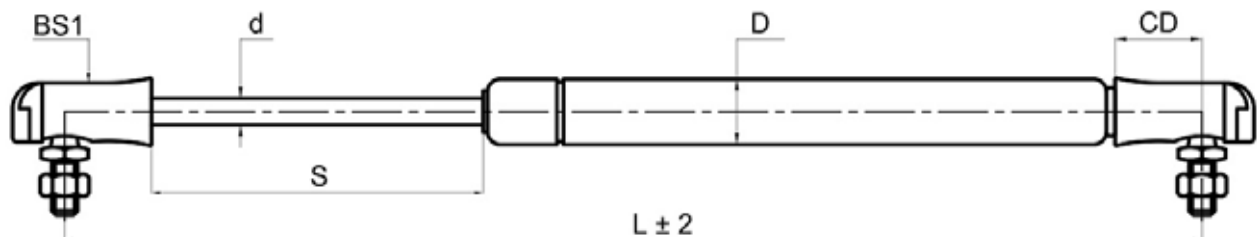


### Advantages

- Single person can lift heavy doors easily
- Automatic & Damped opening
- Hinge points subjected to lower force
- Various end-fittings for different applications

### Features

- It is sleek & compact in design
- Smooth operation (No mechanical friction, noise and shock during compression and extension)
- Installation as well as operation is easy



**GL SERIES** standard selection chart

MODEL	D Tube (Dia)	d Shaft (Dia)	s (Stroke) mm	End Socket	CD Centre Distance	L (Extended length) mm	F Force (N)
GL 2210-18	22	10	175	BS2	30	460	750
GL 2210-21	22	10	203	BS2	30	516	500
GL 2210-24	22	10	243	BS2	30	593	750
GL 2814-24	28	14	243	BS3	35	612	1000, 1250, 1500
GL 2814-24	28	14	340	BS3	35	845	1000, 1250, 1500, 2000
GL 156-6	15	6	38	BS1	20	152	50, 100, 150
GL 156-10	15	6	85	BS6	8	254	50, 100, 150, 200, 250
GL 156-12	15	6	110	BS1	20	305	250
GL 2110-12	21	10	102	BS5	22	302	250
GL 2110-16	21	10	153	BS5	22	410	350
GL 2110-26	21	10	273	BS5	22	660	600
GL 188-12	18	8	110	BS1	20	300	50, 100, 150, 200, 250, 300, 350
GL 188-15	18	8	135	BS1	20	360	50, 100, 150, 200, 250, 300, 350, 500
GL 188-18	18	8	175	BS1	20	460	350, 500