**DOOR ASSISTS**

GAS SPRINGS

**CLANCEY – THE LEADER IN DESIGNING GAS SPRING SOLUTIONS**

**Computer Validated Design Assistance**
Clancey’s Application Specialists are trained in the use of computer simulation programs designed to reduce time and costs from prototypes through production.

By applying technology we can “dial in” the desired features for your application.
- opening force
- closing force
- handle load
- auto-rise
- control for temperature

**Highest Quality Product**
Clancey partners with the best manufacturers in the business. We insist on automotive industry quality levels. When you are selecting a partner for your gas springs consider the two parts of the gas spring that have the greatest impact on its life:

**Rod Quality:**
Our rods are treated with the “Ni-slide” salt bath nitrating process, resulting in a rod that is exceptionally smooth and corrosion resistant. When compared with industry standard chrome rods, the gas spring you select from Clancey will have a much longer life.

**Seal Package:**
Clancey offers a seal package designed for the longest life. In addition to the highest quality orifice and piston stack, Clancey’s gas springs offer a special seal guide system that promotes straight entry and exit resulting in longer life.

**Largest Product Variety – Design Flexibility**
For custom gas springs based on application volume, Clancey offers customers the widest variety of configurations, hundreds more than other distributors. Here are but a few:

**Inter-Stop**
Gas spring which locks in 2 distinct positions.

**Bloc-o-Lift**
Multi-position, remote actuated locking gas spring.

**Electro-Lift**
Allows electrical current to transmit through the gas spring acting as a switch.

**Stainless Steel**
316 stainless steel construction for maximum corrosion resistance.

**Heavy Duty**
20 mm x 40 mm Rod and tube configurations allows forces up to 1000 lbs.

**End-Fittings**
Wide variety to suit all applications.

A small sample of our offering.

www.clancey.com • 1-800-747-7405
Here is the information we will be looking for to assist you in selecting a gas spring that will work well in your application.

**Application (Door) Type** - 
Select from the following drawings the door that best matches your application.

- **VERTICAL DOOR**
- **OFFSET DOOR**
- **HORIZONTAL DOOR**

**Hinge Point:** Represented by \( X = 0, \) and \( Y = 0 \) on a coordinate graph in all applications.
- This is the key reference point of measurement in the application.

**Center of Gravity:** Measurement is taken with the door in the closed position.
- If your door is uniform construction, the middle of the door.

**Handle Point:** Measurement is taken with the door in the closed position.
- The point where you will be lifting from (not necessarily the end of the door).

**Desired Opening Angle:** in degrees from closed position.

**Weight of the Door:** Total weight of door and hardware.
- Note: measured with a hand scale while door is hinged the result is (2) times the weight shown on the scale.

**Desired Handle Loads:**
- How much force required to lift or close the door.

**Desired Actions:** By selecting different mounting locations and forces, we can make the gas spring perform in a variety of ways.

**Following is a listing of many of the areas your Application Specialist can control or change.**

- "Autorise" – gas spring opens the door completely with release of the latch
  - Yes _____, No ______
- "Hold Open" – gas spring holds the door open with only its own force
  - Yes _____, No ______
- "Stay Down" – door stays down in the closed position
  - Yes _____, No ______
- "Self Closing" – gas spring assists in closing the door beyond a determined angle
  - Yes _____, No ______
- "Counterbalance" – user must assist gas spring through range of motion
  - Yes _____, No ______

**Desired Dampening:** Dampening is created by the oil in the gas spring passing through the piston system (see page 170). Dampening slows down, or "cushions" the action of the gas spring. Dampening has a big impact on how the gas spring "feels" in the application. Custom dampening features may be subject to application volume.

- "Extension" – gas spring slows down as it becomes fully extended (opened)
  - Yes _____, No ______
- "Compression" – gas spring slows down as it is compressed (closed)
  - Yes _____, No ______
- "Dual Dampening" – gas spring slows down in both opening and closing
  - Yes _____, No ______
- "Heavy Dampening" – dampening is significantly greater than normal
  - Yes _____, No ______
- "Minimal Dampening" – dampening is significantly less than normal
  - Yes _____, No ______

You will find a worksheet to remove from the catalog and fax to us on page 356. You can also use web based application assistant at www.clancey.com.
**6 mm ROD X 15 mm TUBE COMPOSITE END-FITTINGS**

**Part Number**  | **“L” Extended Length** | **“S” Stroke** | **Available Forces (in pounds)**
---|---|---|---
06-195-060-XX | 195mm (7.68") | 60mm (2.36") | 10, 20, 35, 45, 60, 70, 80, 90
06-235-080-XX | 235mm (9.25") | 80mm (3.15") | 10, 20, 35, 45, 60, 70, 80, 90
06-244-080-XX | 244mm (9.60") | 80mm (3.15") | 65
06-275-100-XX | 275mm (10.83") | 100mm (3.94") | 10, 20, 35, 45, 60, 70, 80, 90
06-305-089-XX | 305mm (12.00") | 89mm (3.50") | 60
06-315-120-XX | 315mm (12.40") | 120mm (4.72") | 10, 20, 35, 45, 60, 70, 80, 90
06-275-150-XX | 375mm (14.76") | 150mm (5.91") | 10, 20, 35, 45, 60, 70, 80, 90
06-381-139-XX | 381mm (15.00") | 139mm (5.50") | 60, 90
06-431-152-XX | 431mm (17.00") | 152mm (6.00") | 60

**Part Number**  | **“L” Extended Length** | **“S” Stroke** | **Available Forces (in pounds)**
---|---|---|---
06-245-080-XXX | 245mm (9.66") | 80mm (3.15") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-285-100-XXX | 285mm (11.22") | 100mm (3.94") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-305-089-XXX | 305mm (12.00") | 89mm (3.50") | 60
06-325-120-XXX | 325mm (12.80") | 120mm (4.72") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-325-152-XXX | 325mm (12.80") | 152mm (6.00") | 90, 110
06-470-184-XXX | 470mm (18.50") | 184mm (7.25") | 45, 60
06-485-200-XXX | 485mm (19.09") | 200mm (7.87") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-508-203-XXX | 508mm (20.00") | 203mm (7.99") | 20, 30, 60, 90, 120
06-536-216-XXX | 536mm (21.00") | 216mm (8.50") | 70, 100
06-585-250-XXX | 585mm (23.03") | 250mm (9.84") | 20, 35, 45, 60, 70, 80, 90, 110, 135

**10 mm COMPOSITE**

Order 10 mm ball studs or brackets.

**Place the force in pounds in place of “XX”. Add “-SS” for stainless steel.**

**8 mm ROD X 18 mm TUBE COMPOSITE END-FITTINGS**

**Part Number**  | **“L” Extended Length** | **“S” Stroke** | **Available Forces (in pounds)**
---|---|---|---
06-245-080-XXX | 245mm (9.66") | 80mm (3.15") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-285-100-XXX | 285mm (11.22") | 100mm (3.94") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-305-089-XXX | 305mm (12.00") | 89mm (3.50") | 60
06-325-120-XXX | 325mm (12.80") | 120mm (4.72") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-325-152-XXX | 325mm (12.80") | 152mm (6.00") | 90, 110
06-470-184-XXX | 470mm (18.50") | 184mm (7.25") | 45, 60
06-485-200-XXX | 485mm (19.09") | 200mm (7.87") | 20, 35, 45, 60, 70, 80, 90, 110, 135
06-508-203-XXX | 508mm (20.00") | 203mm (7.99") | 20, 30, 60, 90, 120
06-536-216-XXX | 536mm (21.00") | 216mm (8.50") | 70, 100
06-585-250-XXX | 585mm (23.03") | 250mm (9.84") | 20, 35, 45, 60, 70, 80, 90, 110, 135

**10 mm COMPOSITE**

Order 10 mm ball studs or brackets.

**Place the force in pounds in place of “XX”. Add “-SS” for stainless steel.**

**CLANCEY IS THE LEADER IN STAINLESS STEEL GAS SPRINGS.**

www.clancey.com • 1-800-747-7405
GAS SPRINGS, COMPOSITE END-FITTINGS

- Ni-Slide corrosion resistant rod.
- Corrosion resistant composite end-fitting.
- Easy “snap-on” installation.
- Many lengths, strokes, and forces are available.
- Stainless steel springs available in many sizes.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Extended Length</th>
<th>Stroke</th>
<th>Available Forces (in pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-486-200-XXX</td>
<td>485mm (19.09&quot;)</td>
<td>200mm (7.87&quot;)</td>
<td>35, 45, 60, 70, 80, 90, 110, 135, 160, 180, 200, 225, 260</td>
</tr>
<tr>
<td>10-585-250-XXX</td>
<td>585mm (23.03&quot;)</td>
<td>250mm (9.84&quot;)</td>
<td>35, 45, 60, 70, 80, 90, 110, 135, 160, 180, 200, 225, 260</td>
</tr>
<tr>
<td>10-685-300-XXX</td>
<td>685mm (26.97&quot;)</td>
<td>300mm (11.81&quot;)</td>
<td>35, 45, 60, 70, 80, 90, 110, 135, 160, 180, 200, 225, 260</td>
</tr>
<tr>
<td>10-785-350-XXX</td>
<td>785mm (30.90&quot;)</td>
<td>350mm (13.78&quot;)</td>
<td>35, 45, 60, 70, 80, 90, 110, 135, 160, 180, 200, 225, 260</td>
</tr>
<tr>
<td>10-885-400-XXX</td>
<td>885mm (34.84&quot;)</td>
<td>400mm (15.75&quot;)</td>
<td>35, 45, 60, 70, 80, 90, 110, 135, 160, 180, 200, 225, 260</td>
</tr>
</tbody>
</table>

- Spring loaded mechanism locks into place when spring is at full extension.

<table>
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<th>Part Number</th>
<th>Extended Length</th>
<th>Stroke</th>
<th>Available Forces (in pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-437-157-XXX</td>
<td>437mm (17.20&quot;)</td>
<td>157mm (6.18&quot;)</td>
<td>20, 30, 40, 50, 70, 80, 90, 110, 130</td>
</tr>
<tr>
<td>08-669-260-XXX</td>
<td>669mm (26.33&quot;)</td>
<td>260mm (10.23&quot;)</td>
<td>30, 70, 120, 160, 190, 240</td>
</tr>
</tbody>
</table>

- Place the force in pounds in place of “XX”. Add “-SS” for stainless steel.

**CLANCEY RESOURCES**

You are about to select the finest gas spring available. Don’t make the mistake of going it alone. Fill out the form on page 356 (also available at www.clancey.com). Your Clancey application specialist will simulate your application in the computer saving you valuable time in product selection and development.

www.clancey.com • 1-800-747-7405
DOOR ASSISTS

GAS SPRINGS, METAL END-FITTINGS

Select the force in pounds place of “XXX” add “-SS for stainless steel.

### 10 mm METAL END-FITTINGS

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</thead>
<tbody>
<tr>
<td>08-M-244-080-XXX</td>
<td>8mm</td>
<td>19mm</td>
<td>244mm (9.60”)</td>
<td>80mm (3.20”)</td>
<td>20, 30, 35, 45, 50, 60, 80, 85, 90, 100, 110, 120, 150</td>
</tr>
<tr>
<td>08-M-388-149-XXX</td>
<td>8mm</td>
<td>19mm</td>
<td>388mm (15.27”)</td>
<td>149mm (5.86”)</td>
<td>20, 30, 40, 50, 60, 90, 150</td>
</tr>
<tr>
<td>10-M-669-260-XXX</td>
<td>10mm</td>
<td>22mm</td>
<td>669mm (26.33”)</td>
<td>260mm (10.23”)</td>
<td>30, 40, 45, 50, 60, 80, 90, 100, 120, 150, 180, 190, 220, 240, 260</td>
</tr>
</tbody>
</table>

Select the force in pounds place of “XXX”

### 13 mm METAL END-FITTINGS

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</thead>
<tbody>
<tr>
<td>10-M-512-200-XXX</td>
<td>10mm</td>
<td>22mm</td>
<td>512mm (20.15”)</td>
<td>200mm (7.87”)</td>
<td>70, 100, 120, 130, 150, 180, 200, 240</td>
</tr>
<tr>
<td>10-M-922-386-XXX</td>
<td>10mm</td>
<td>22mm</td>
<td>922mm (36.29”)</td>
<td>386mm (15.19”)</td>
<td>40, 60, 80, 90, 100, 120, 130, 150, 180</td>
</tr>
</tbody>
</table>

Be sure to order 2 safety clips per gas spring.

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**DOOR ASSISTS**

**GAS SPRINGS, METAL END-FITTINGS**

- Largest commercial available gas springs.
- Wide range of strokes to suit nearly any application.
- Ball studs and safety clips are included.

**HEAVY-DUTY GAS SPRINGS**

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</thead>
<tbody>
<tr>
<td>14-M-335-100-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>335mm (13.18&quot;)</td>
<td>100mm (3.93&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-435-150-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>435mm (17.13&quot;)</td>
<td>150mm (5.91&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-535-200-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>535mm (21.06&quot;)</td>
<td>200mm (7.87&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-635-250-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>635mm (25.00&quot;)</td>
<td>250mm (9.84&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-735-300-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>735mm (28.94&quot;)</td>
<td>300mm (11.81&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-835-350-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>835mm (32.87&quot;)</td>
<td>350mm (13.78&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-935-400-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>935mm (36.81&quot;)</td>
<td>400mm (15.75&quot;)</td>
<td>290, 335, 380, 425, 470</td>
</tr>
<tr>
<td>14-M-1135-500-XXX</td>
<td>14mm</td>
<td>28mm</td>
<td>1135mm (44.69&quot;)</td>
<td>500mm (19.69&quot;)</td>
<td>110, 135, 155, 180, 200, 225, 245, 290, 335, 380</td>
</tr>
</tbody>
</table>

Select the force in pounds place of "XXX"

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