



High performance of "Gas spring". Creative, Energy, Comfortable



# GAS SPRING MANUFACTURER



**G&S Korea**

Gas & Spring Korea

[WWW.GNSKOREA.CO.KR](http://WWW.GNSKOREA.CO.KR)

# Company Overview

New standards for a comfortable life. To a better future with G&S KOREA  
The future of sustainable growth, Gas Spring Korea



Creative, Energy, Comfortable  
High performance of "Gas spring", "Gas struts", "Gas lift"

A first-class company that customers can trust  
We will provide differentiated and customized services with various experiences and expertise.

The modern lifestyle is causing drastic changes with incredible speed.  
Continuous innovative movements toward a better life in an atypical era grow G&S KOREA.

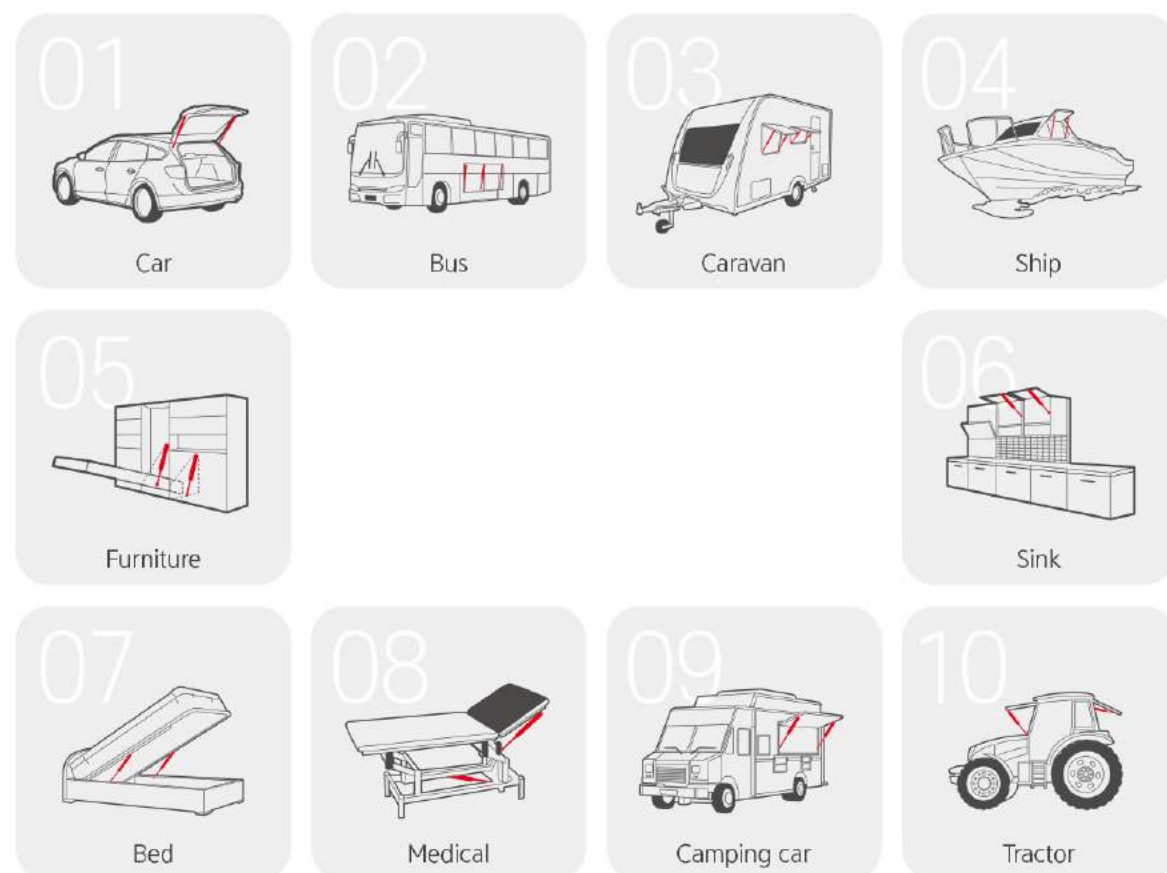
In order to create new values, we will fill the links with our clients by listening to our customers with a business mind of win/win partnership.

To create an optimal space and comfortable life, G&S KOREA will extend to the world with a pride of the highest quality products.



## Company Overview

## Application



\*This image is to help your understanding, and may differ from the actual installation result.

## Certificatesheld

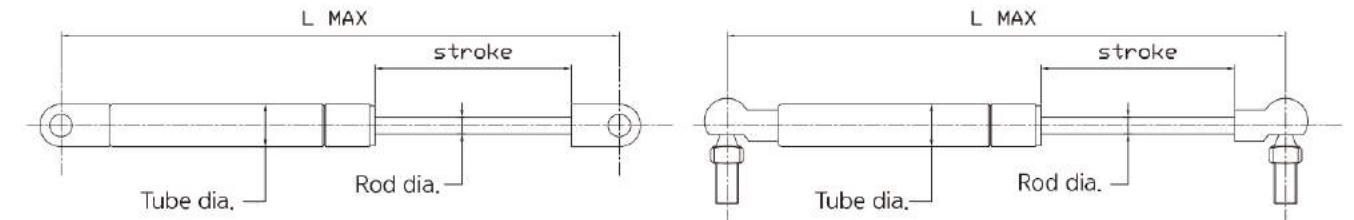


## Company Overview





## Gas Spring specification



| Type | Force(N)  | Max. Length (mm) | Stroke (mm) | Rod dia. | Tube dia. | Material |               |                |
|------|-----------|------------------|-------------|----------|-----------|----------|---------------|----------------|
|      |           |                  |             |          |           | Code     | Rod           | Tube(Cylinder) |
| A    | 20~300    | 100~500          | 20~200      | 6        | 15        | A1       | S20-C(Chrome) | STKM11A        |
|      |           |                  |             |          |           | A2       | S20-C(Black)  | STKM11A        |
|      |           |                  |             |          |           | A3       | SUS316L       | STKM11A        |
|      |           |                  |             |          |           | A4       | SUS316L       | SUS316L        |
| B    | 50~500    | 100~1,000        | 20~450      | 8        | 18        | B1       | S20-C(Chrome) | STKM11A        |
|      |           |                  |             |          |           | B2       | S20-C(Black)  | STKM11A        |
|      |           |                  |             |          |           | B3       | SUS316L       | STKM11A        |
|      |           |                  |             |          |           | B4       | SUS316L       | SUS316L        |
| C    | 50~700    | 100~1,000        | 20~450      | 10       | 22        | C1       | S20-C(Chrome) | STKM11A        |
|      |           |                  |             |          |           | C2       | S20-C(Black)  | STKM11A        |
|      |           |                  |             |          |           | C3       | SUS316L       | STKM11A        |
|      |           |                  |             |          |           | C4       | SUS316L       | SUS316L        |
| D    | 200~2,000 | 100~1,500        | 20~700      | 12.5     | 27.4      | D1       | S20-C(Chrome) | STKM11A        |
|      |           |                  |             |          | 27        | D2       | S20-C(Black)  | STKM11A        |
|      |           |                  |             |          |           | D3       | SUS316L       | STKM11A        |
|      |           |                  |             |          |           | D4       | SUS316L       | SUS316L        |
| E    | 200~2,000 | 100~1,500        | 20~700      | 14       | 27.4      | E1       | S20-C(Chrome) | STKM11A        |
|      |           |                  |             |          | 27        | E2       | S20-C(Black)  | STKM11A        |
|      |           |                  |             |          |           | E3       | SUS316L       | STKM11A        |
|      |           |                  |             |          |           | E4       | SUS316L       | SUS316L        |

※ Other specifications can be discussed with our engineer before manufacturing.

## Gas Spring

GUIDE CODE **A**Rod dia.  $\phi 6$  x Tube dia.  $\phi 15$ 

▪ Recommended option : End fitting & Bracket - K1, K2, K3, M1, M3, M4, N1, N4, N7, P1, P2, P3, P4, A, B, C, D

GUIDE CODE **B**Rod dia.  $\phi 8$  x Tube dia.  $\phi 18$ 

▪ Recommended option : End fitting & Bracket - K1, K2, K3, L1, L2, L3, L4, L5, M1, M3, M4, N1, N4, N7, P1, P2, P3, P4, G

GUIDE CODE **C**Rod dia.  $\phi 10$  x Tube dia.  $\phi 22$ 

▪ Recommended option : End fitting & Bracket

K1, K2, K3, K6, M2, M5, M7, M8, L1, L2, L4, L5, F1, F2, N3, N5, N6, N8, U1, U2, G

GUIDE CODE **D**Rod dia.  $\phi 12.5$  x Tube dia.  $\phi 27.4$ 

▪ Recommended option : End fitting & Bracket

K3, K6, M2, M5, M7, M8, F1, F2, N3, N5, N6, N8, U1, U2, K

GUIDE CODE **E**Rod dia.  $\phi 14$  x Tube dia.  $\phi 27.4$ 

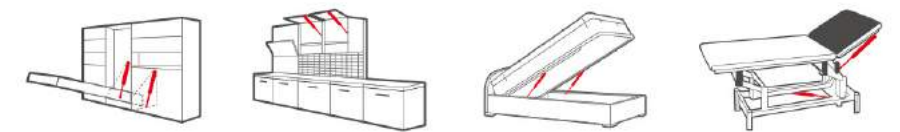
▪ Recommended option : End fitting & Bracket

N3, N5, N6, N8, F1, M5, M7, M8, U1, U2





## Furniture Gas Spring



▪ Recommended option : Bracket - A, B, C, D, E, F

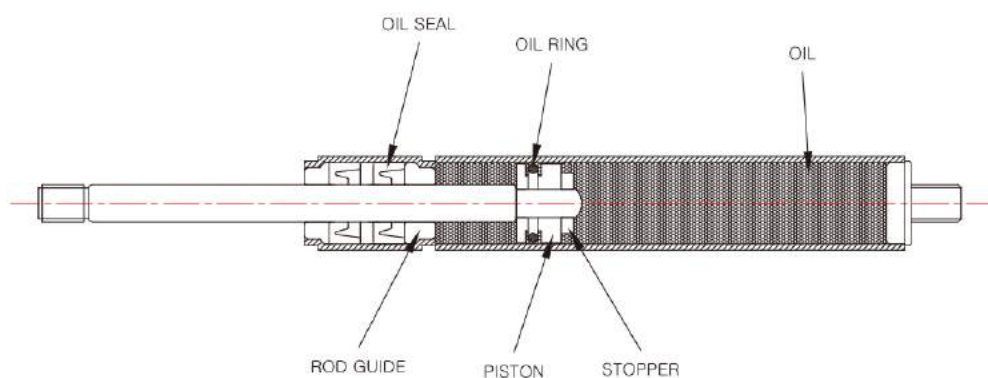
## Furniture Gas Spring



# Damper Spring



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## Damper Spring

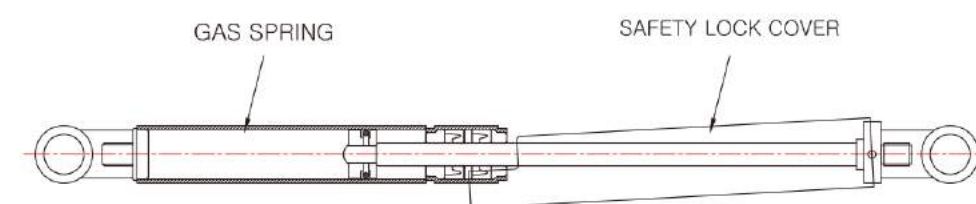


G&S damper spring allows you to maintain an appropriate speed when lowering heavy objects or heavy doors, which not only prevents rapid falls, but also provides convenience to life. More accurate manufacturing is possible if you provide a sample for reference given the characteristics of the damper products when placing an order for manufacturing, and if you want to change the speed, **please consult with our engineers.**

# Safety Lock



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## Safety Lock



The G&S safety lock has a safety device. It is a product that has added a safety cover those functions as a support to regular gas springs, and the safety cover prevents safety accidents in advance by preventing the gas spring from operating.

This not only ensures safety against sudden gas leakage, but also can prevent the door from closing caused by shifting of the center of gravity when used in asloped workplace.

\* Please place an order in consultation with our engineer.

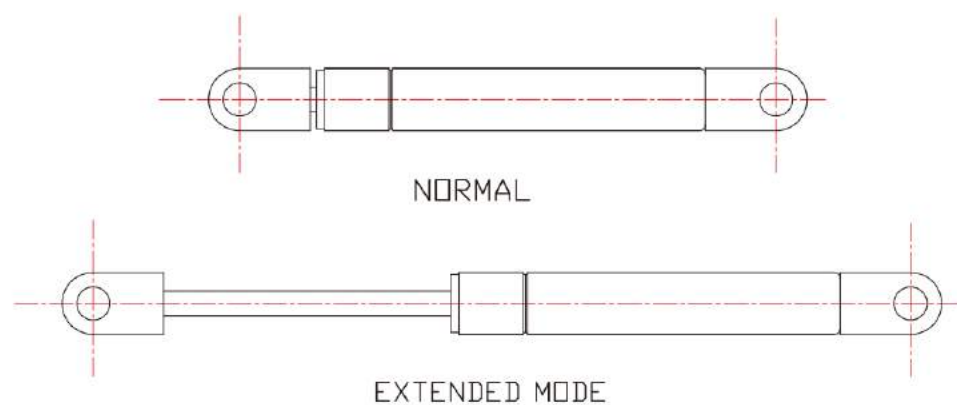


Safety lock video

# Traction Gas Spring



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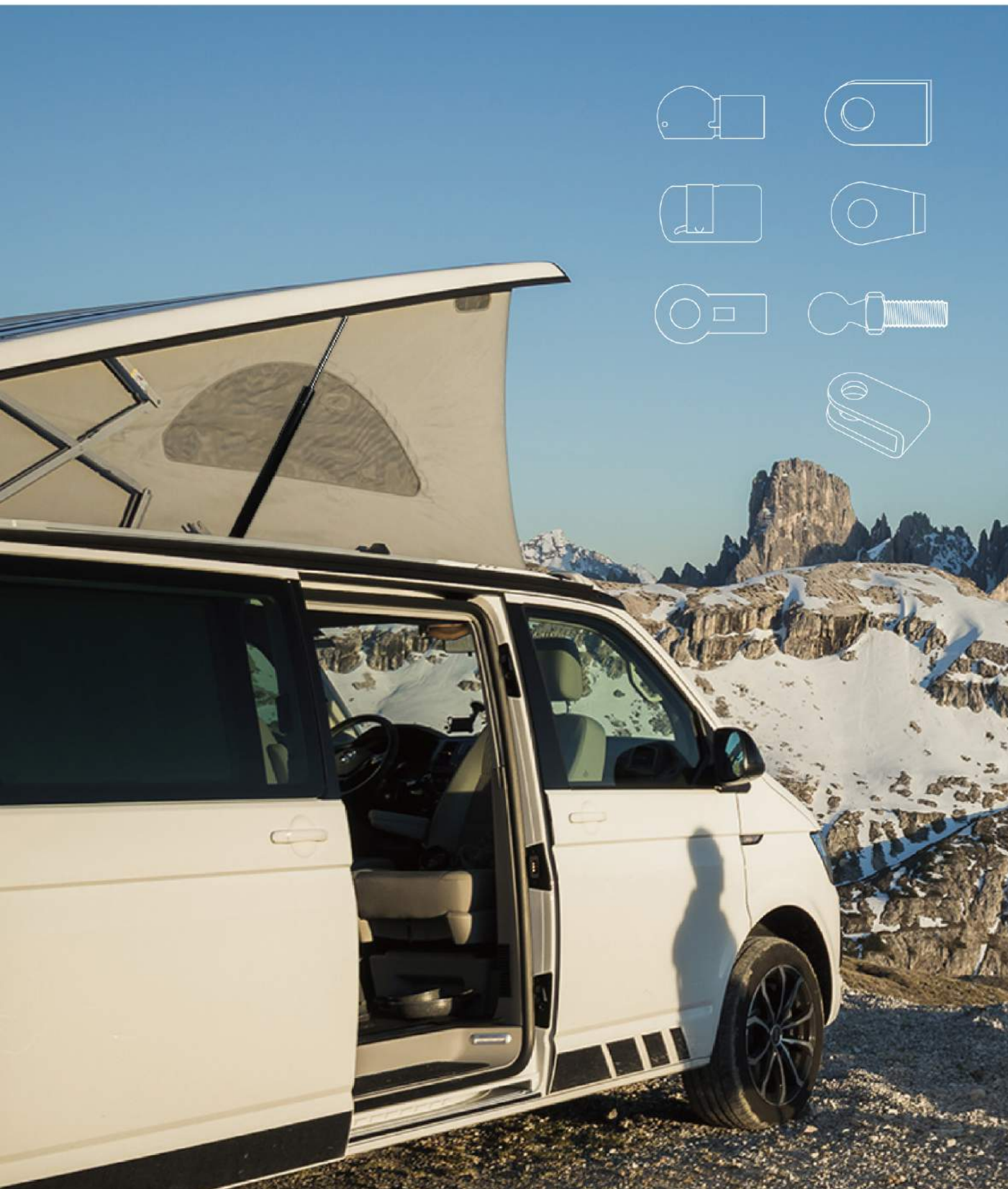


## Traction Gas Spring

This is a special type of gas spring, and the function is in reverse of a regular gas spring. The basic form is a contracted form with the rod inserted in the tube. When you apply force, it expands to the point of maximum extension. When you release the force, it returns to its normal state.

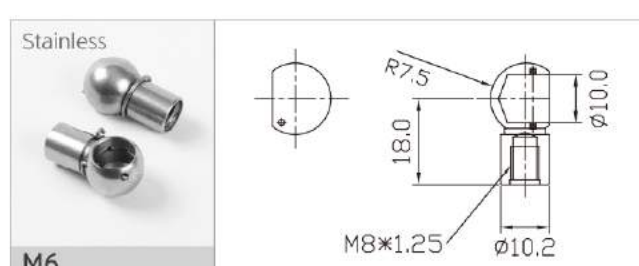
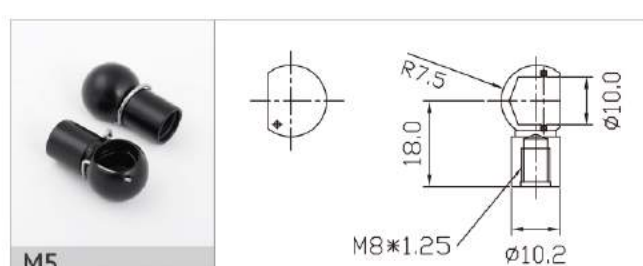
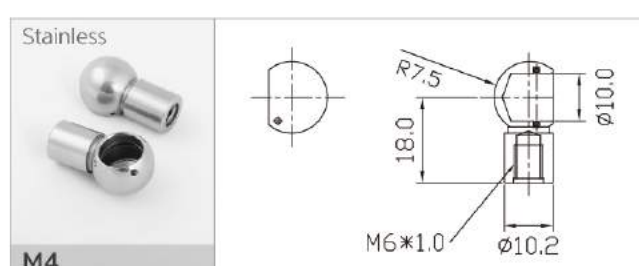
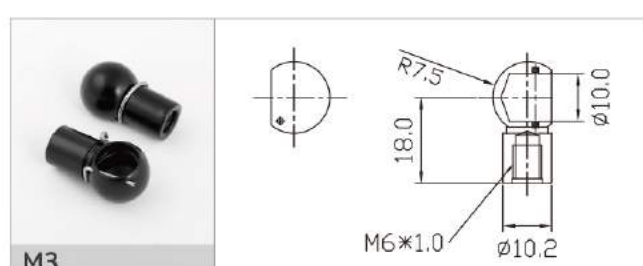
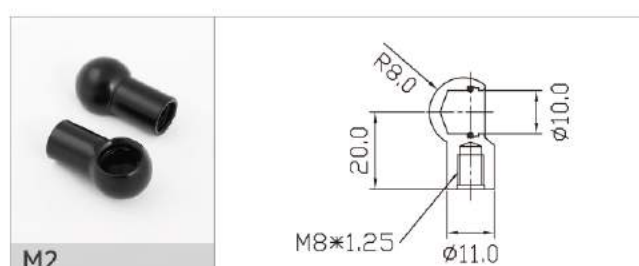
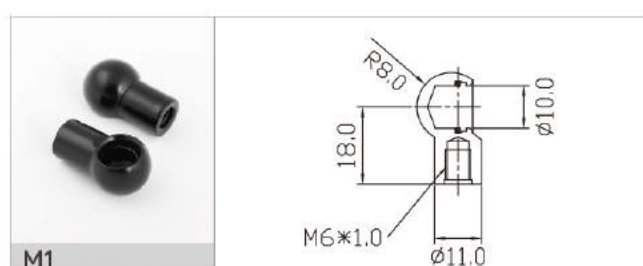
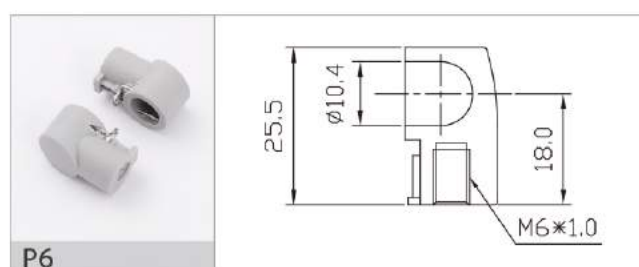
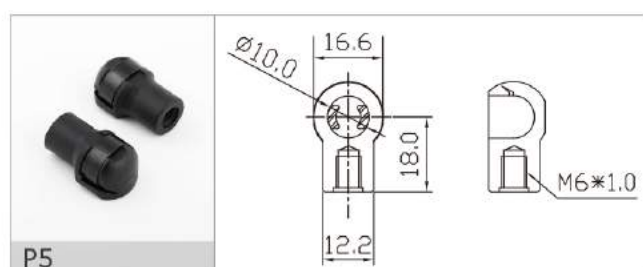
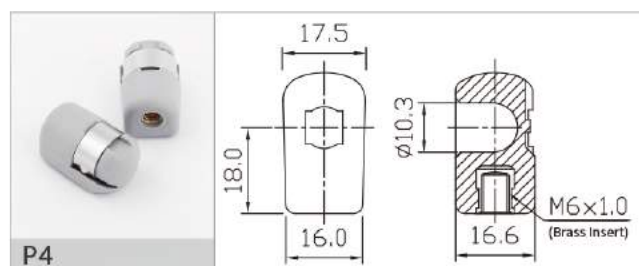
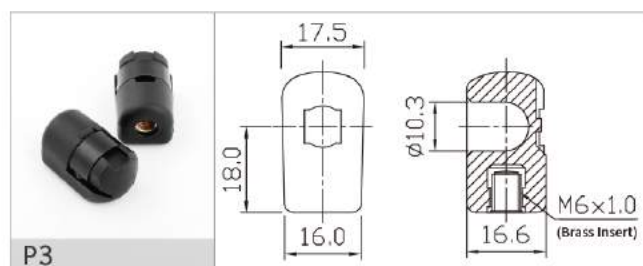
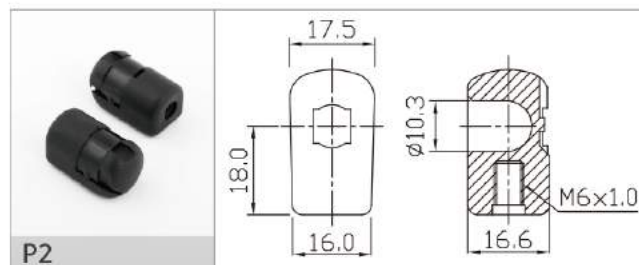
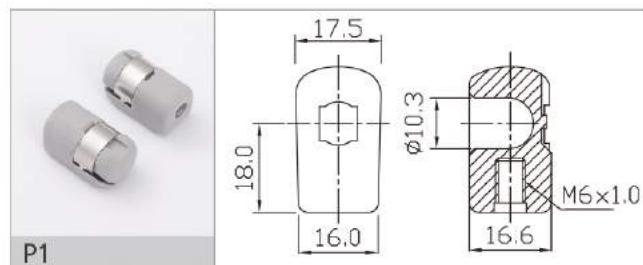
\* Please place an order in consultation with our engineer.





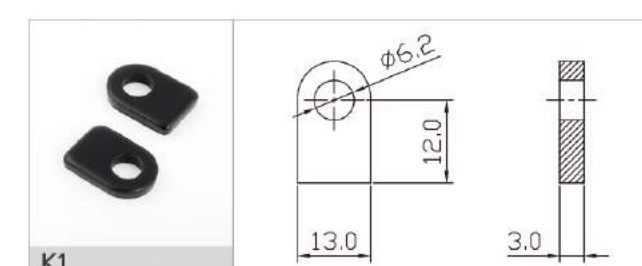
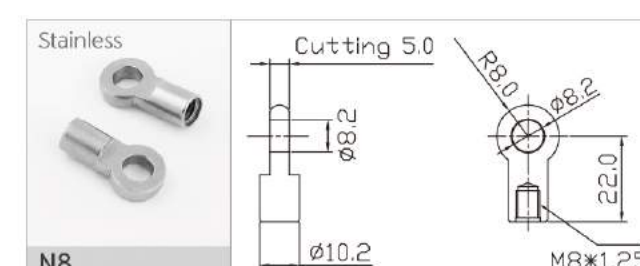
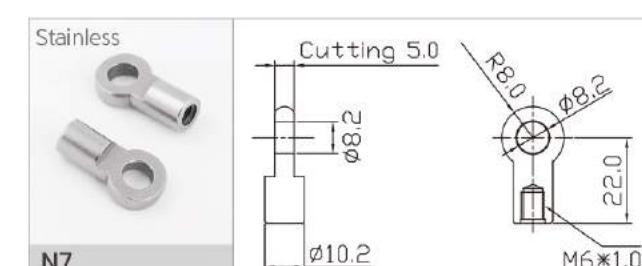
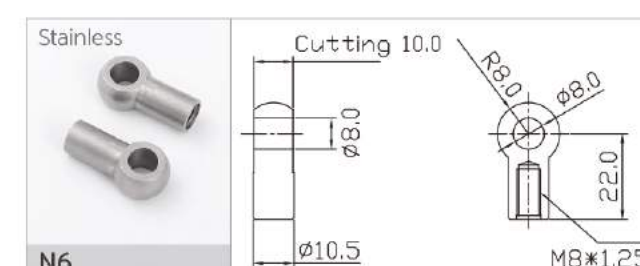
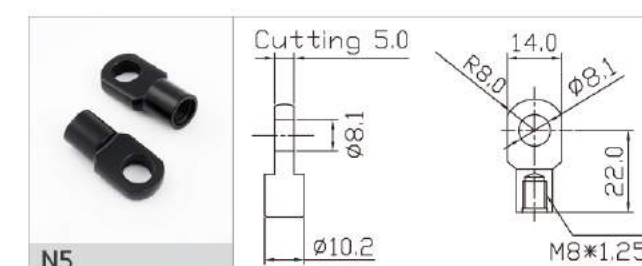
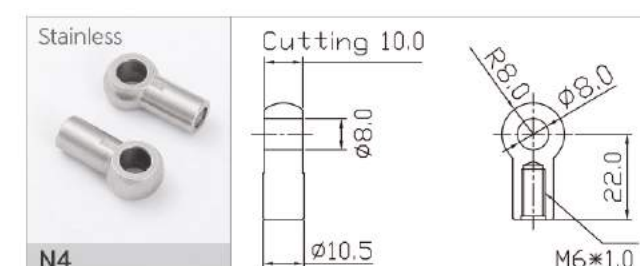
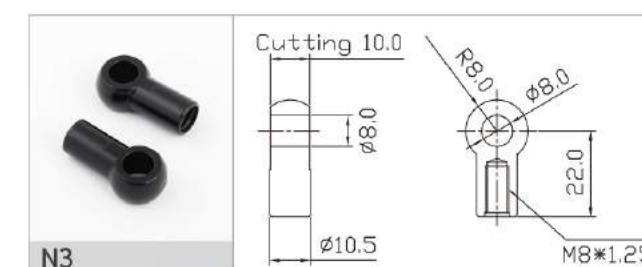
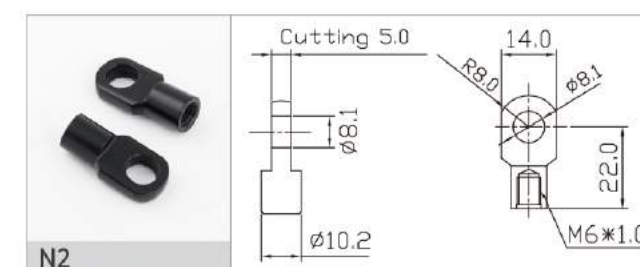
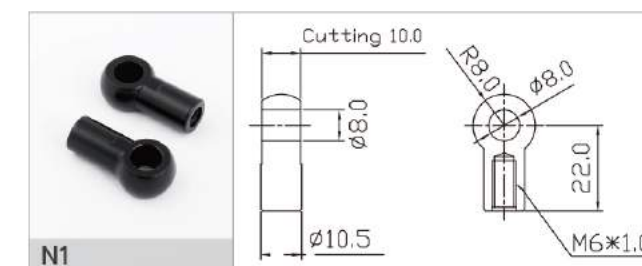
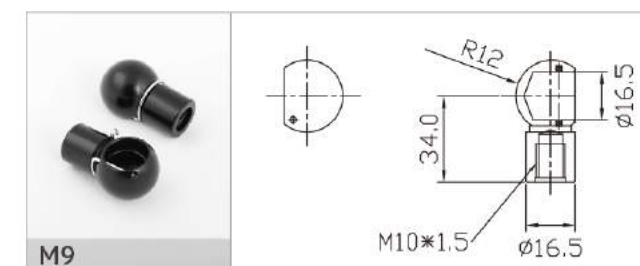
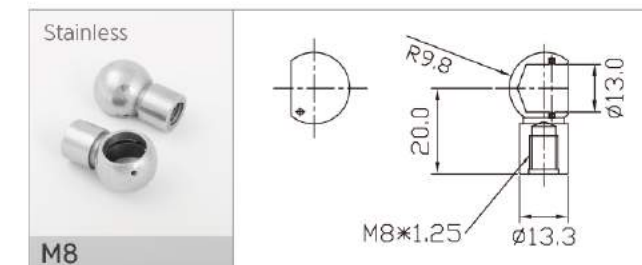
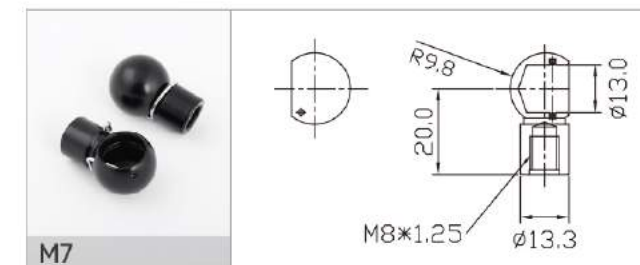
## End Fitting & Bracket

## End Fitting



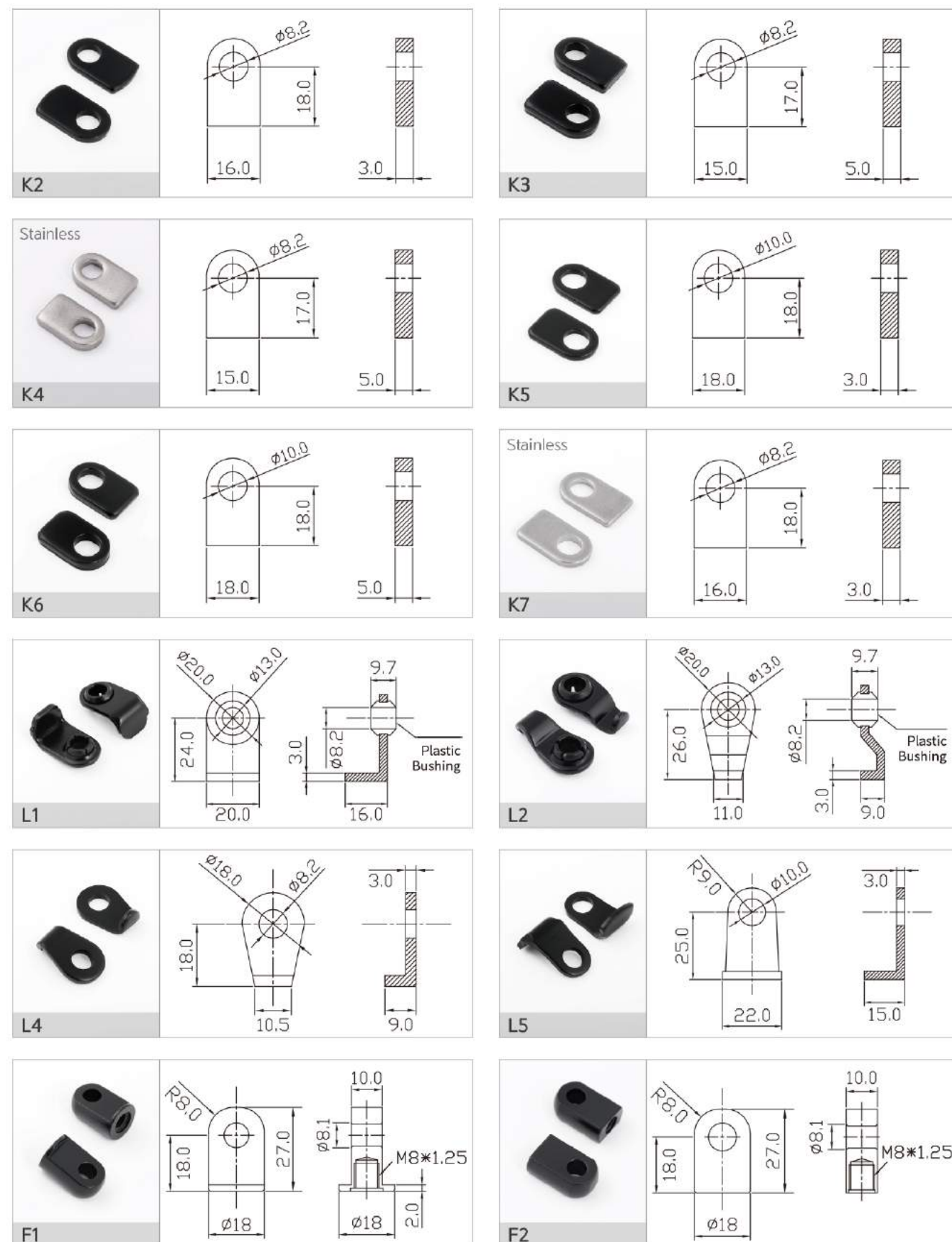
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## End Fitting

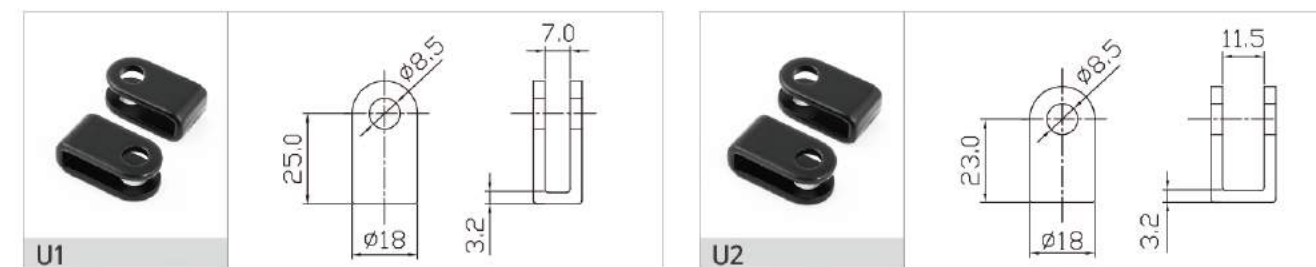


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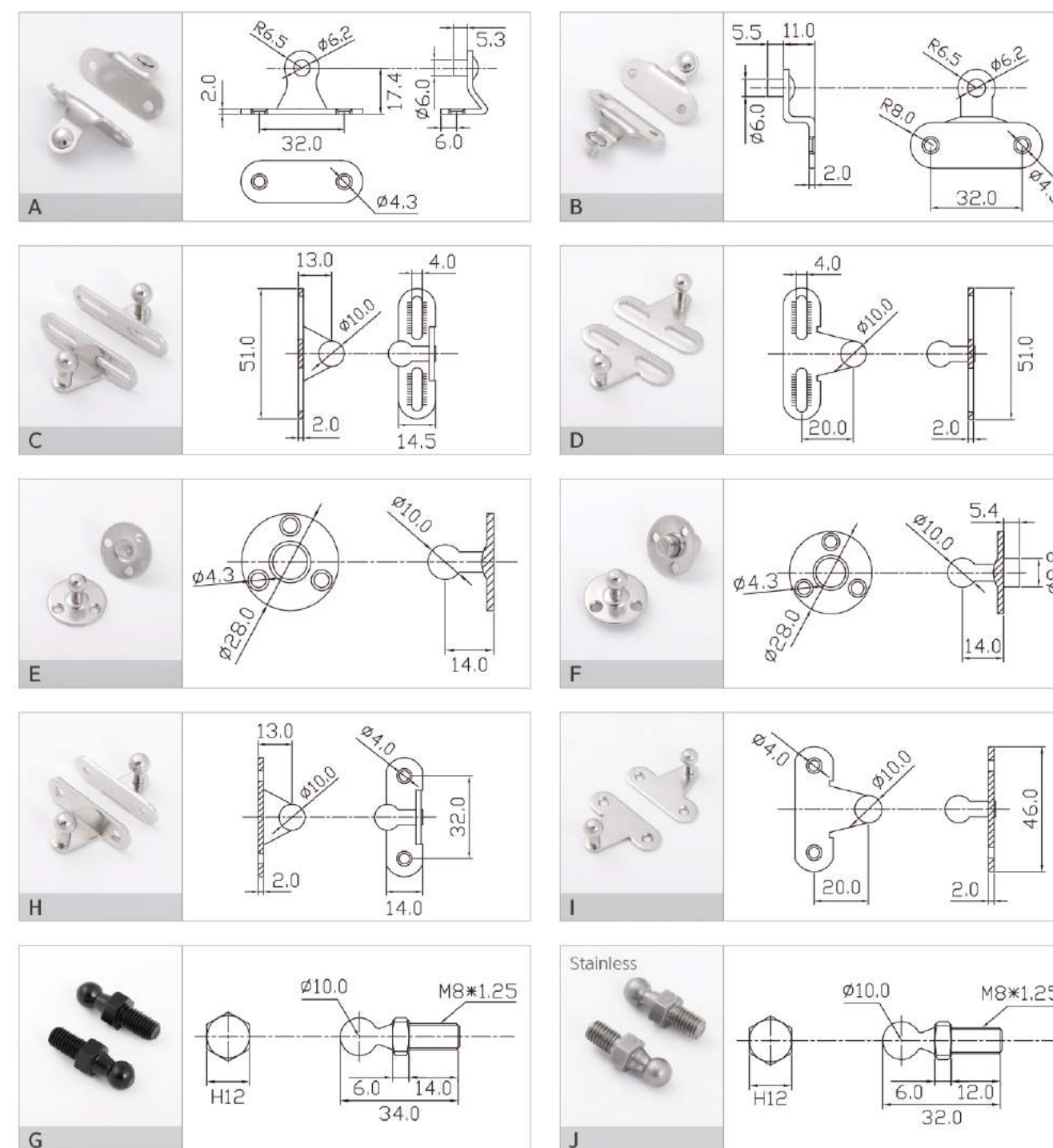
## End Fitting



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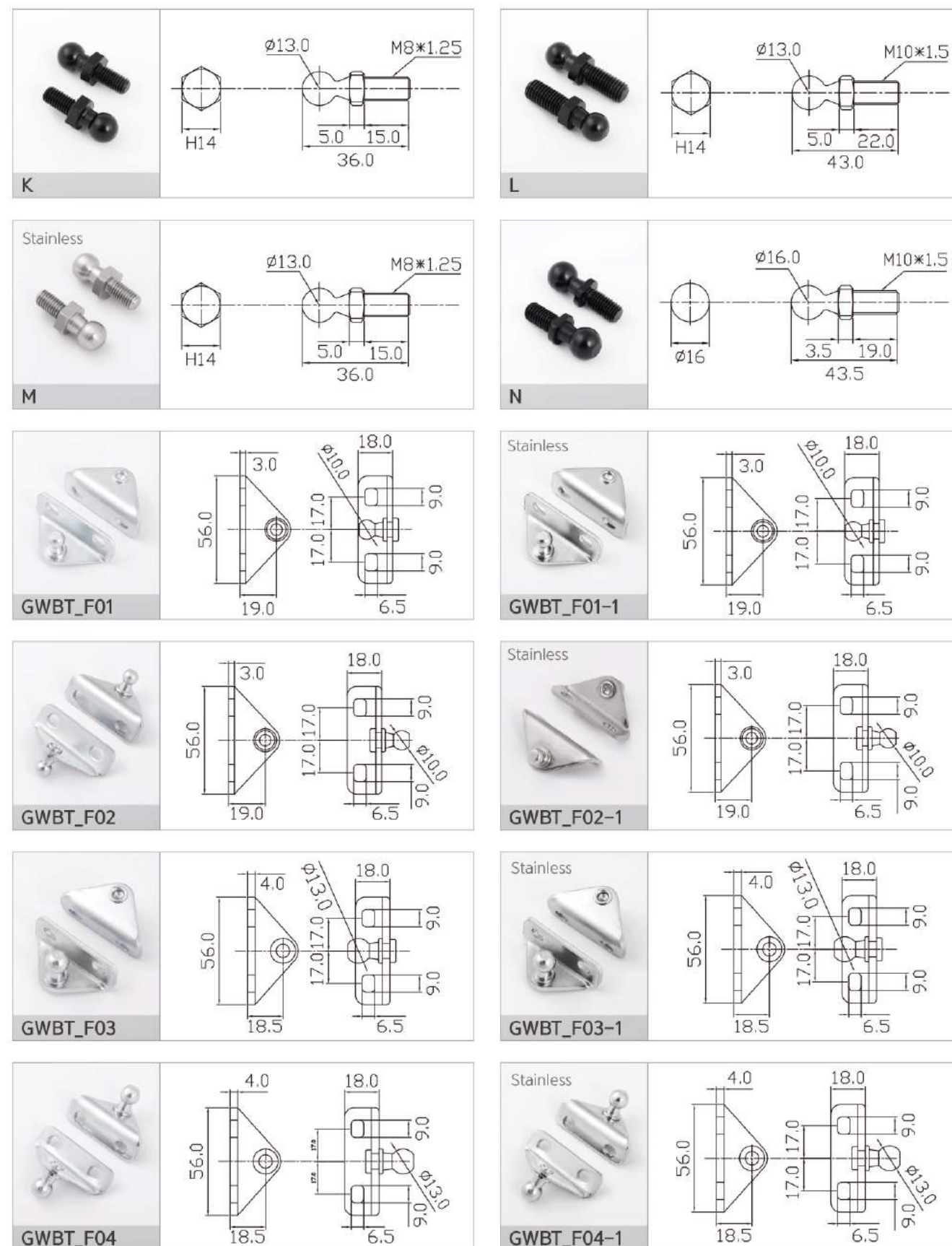


## Bracket



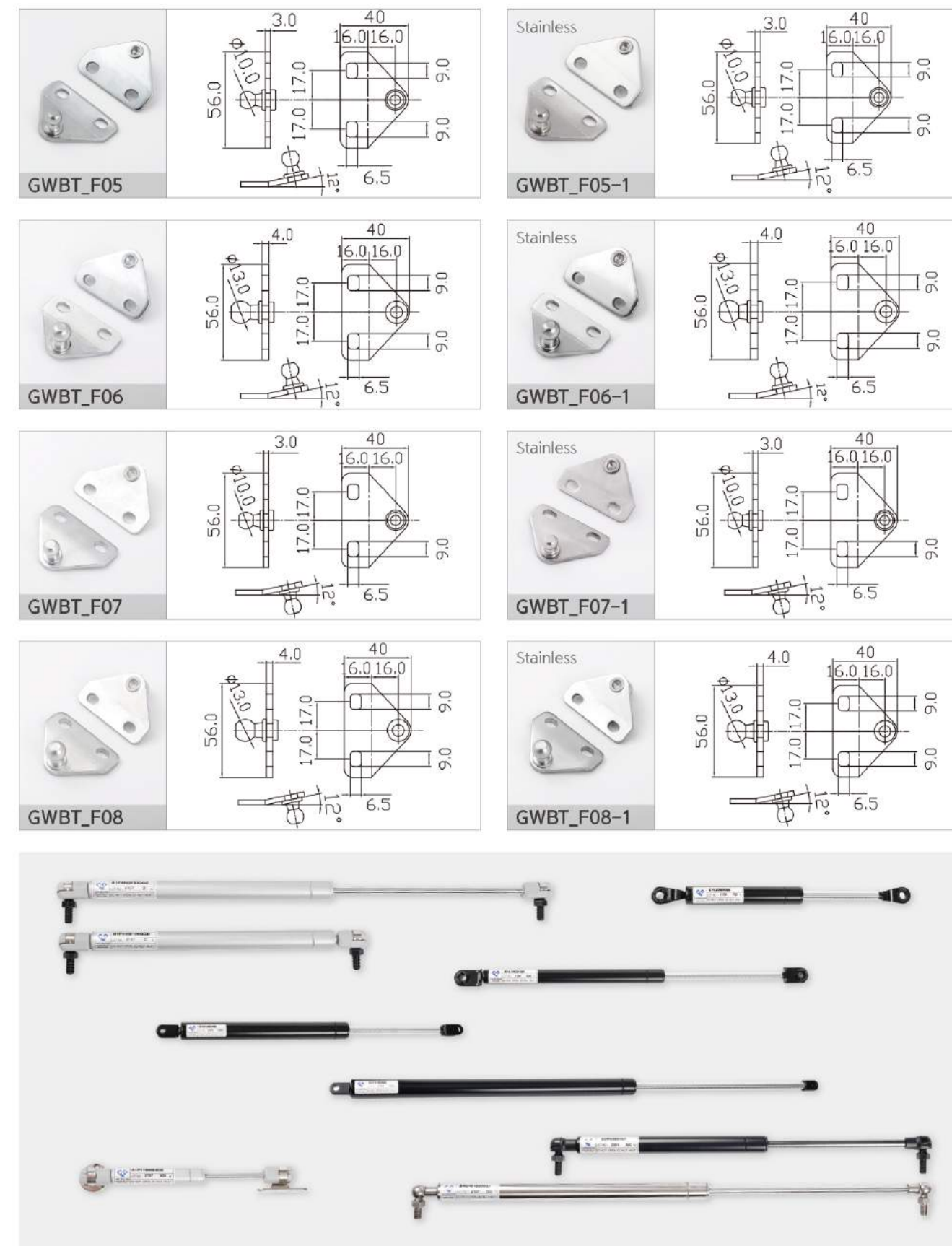
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## Bracket



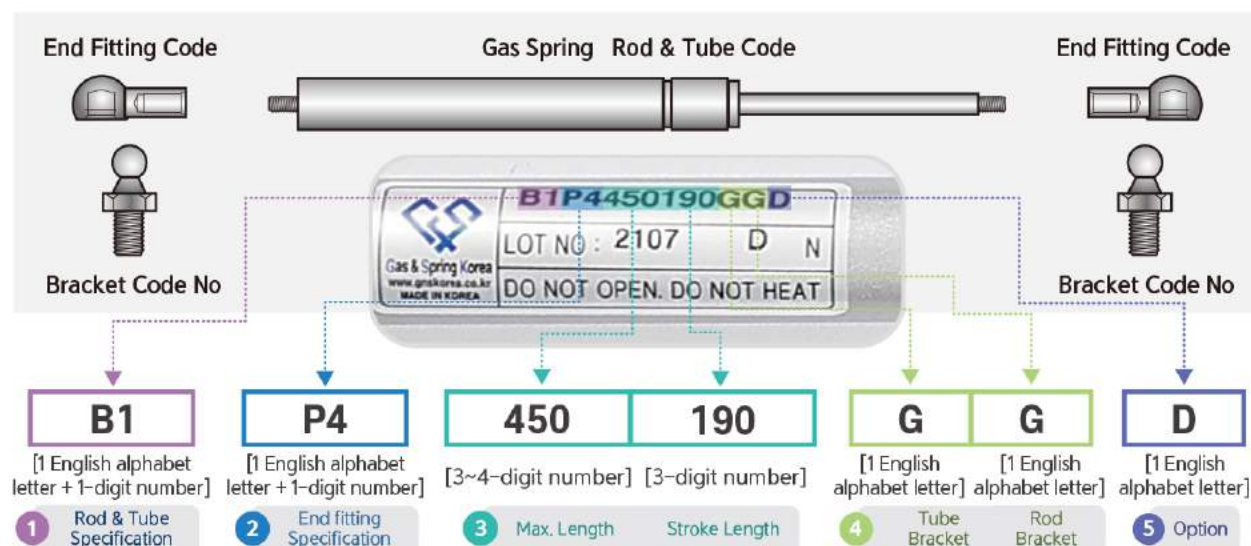
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## Bracket

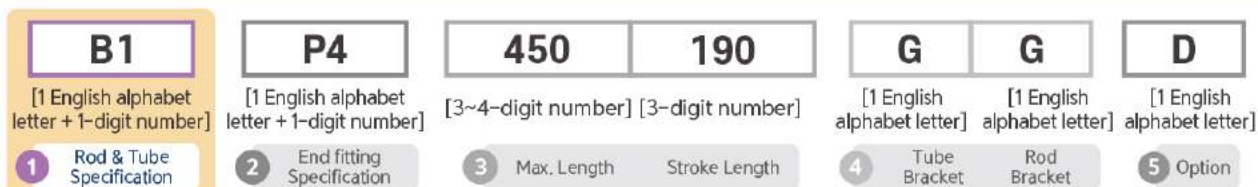


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# Code Table Guide



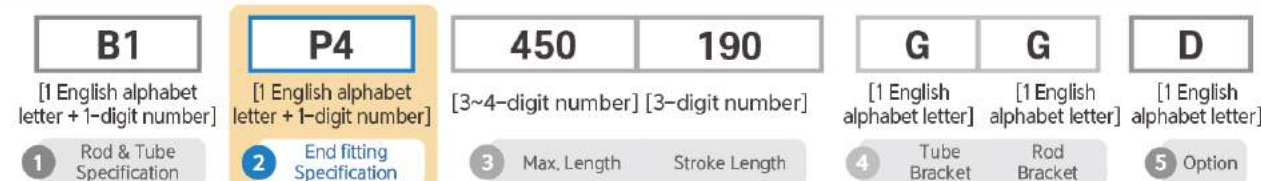
## Rod &amp; Tube Code No.



Check Rod and Tube on the code table page which are the first code.

| Code No. | Rod dia. | Tube dia. | Rod Mt        | Tube Mt |
|----------|----------|-----------|---------------|---------|
| A1       | 6        | 15        | S20-C(Chrome) | STKM11A |
| A2       | 6        | 15        | S20-C(Black)  | STKM11A |
| A3       | 6        | 15        | SUS316L       | STKM11A |
| A4       | 6        | 15        | SUS316L       | SUS316L |
| B1       | 8        | 18        | S20-C(Chrome) | STKM11A |
| B2       | 8        | 18        | S20-C(Black)  | STKM11A |
| B3       | 8        | 18        | SUS316L       | STKM11A |
| B4       | 8        | 18        | SUS316L       | SUS316L |
| C1       | 10       | 22        | S20-C(Chrome) | STKM11A |
| C2       | 10       | 22        | S20-C(Black)  | STKM11A |
| C3       | 10       | 22        | SUS316L       | STKM11A |
| C4       | 10       | 22        | SUS316L       | SUS316L |
| D1       | 12.5     | 27.4      | S20-C(Chrome) | STKM11A |
| D2       | 12.5     | 27.4      | S20-C(Black)  | STKM11A |
| D3       | 12.5     | 27        | SUS316L       | STKM11A |
| D4       | 12.5     | 27        | SUS316L       | SUS316L |
| E1       | 14       | 27.4      | S20-C(Chrome) | STKM11A |
| E2       | 14       | 27.4      | S20-C(Black)  | STKM11A |
| E3       | 14       | 27        | SUS316L       | STKM11A |
| E4       | 14       | 27        | SUS316L       | SUS316L |

## End Fitting Code No.



Check the end fitting code. (Models with only tap work done and no end fittings have no code for this part.)

| Code No. | End Fitting                   | Material       | Thread       |
|----------|-------------------------------|----------------|--------------|
| P1       | Gray Injection Hinge          | Plastic        | M6*1.0       |
| P2       | Black Injection hinge         | Plastic        | M6*1.0       |
| P3       | Black Injection hinge         | Plastic Insert | M6*1.0       |
| P4       | Gray Injection Hinge          | Plastic Insert | M6*1.0       |
| P5       | Black Injection hinge         | Plastic        | M6*1.0       |
| P6       | Gray Injection hinge          | Plastic        | M6*1.0       |
| M1       | 10M-Metal hinge               | S20C           | M6*1.0       |
| M2       | 10M-Metal hinge               | S20C           | M8*1.25      |
| M3       | 10M-Metal hinge (Safety Clip) | S20C           | M6*1.0       |
| M4       | 10M-Metal hinge (Safety Clip) | SUS304         | M6*1.0       |
| M5       | 10M-Metal hinge (Safety Clip) | S20C           | M8*1.25      |
| M6       | 10M-Metal hinge (Safety Clip) | SUS304         | M8*1.25      |
| M7       | 13M-Metal hinge (Safety Clip) | S20C           | M8*1.25      |
| M8       | 13M-Metal hinge (Safety Clip) | SUS304         | M8*1.25      |
| M9       | 16M-Metal hinge (Safety Clip) | S20C           | M10*1.5      |
| N1       | Cutter hinge                  | S20C           | M6*1.0*10T   |
| N2       | Cutter hinge                  | S20C           | M6*1.0*5T    |
| N3       | Cutter hinge                  | S20C           | M8*1.25*10T  |
| N4       | Cutter hinge                  | SUS304         | M6*1.0*10T   |
| N5       | Cutter hinge                  | S20C           | M8*1.25*5T   |
| N6       | Cutter hinge                  | SUS304         | M8*1.25*10T  |
| N7       | Cutter hinge                  | SUS304         | M6*1.0*5T    |
| N8       | Cutter hinge                  | SUS304         | M8*1.25*5T   |
| K1       | I-RINK                        | SPCC           | 3.2t*φ6*12   |
| K2       | I-RINK                        | SPCC           | 3.2t*φ8*18   |
| K3       | I-RINK                        | SPCC           | 5t*φ8*17     |
| K4       | I-RINK                        | SUS304         | 5t*φ8*17     |
| K5       | I-RINK                        | SPCC           | 3.2t*φ10*18  |
| K6       | I-RINK                        | SPCC           | 5t*φ10*17    |
| K7       | I-RINK                        | SUS304         | 3.2t*φ8*18   |
| L1       | L1-RINK                       | SPCC           | 3.2t*φ13*24  |
| L2       | L2-RINK                       | SPCC           | 3.2t*φ13*25  |
| L4       | L4-RINK                       | SPCC           | 3.2t*φ8*18   |
| L5       | L5-RINK                       | SPCC           | 3.2t*φ10*25  |
| F1       | Freelock Link                 | S20C           | 10t*φ8.1*18  |
| F2       | Freelock Link (No wing)       | S20C           | 10t*φ8.1*18  |
| U1       | □ (Small)                     | S20C           | 3.2t*φ8*7    |
| U2       | □ (Large)                     | S20C           | 3.2t*φ8*11.5 |

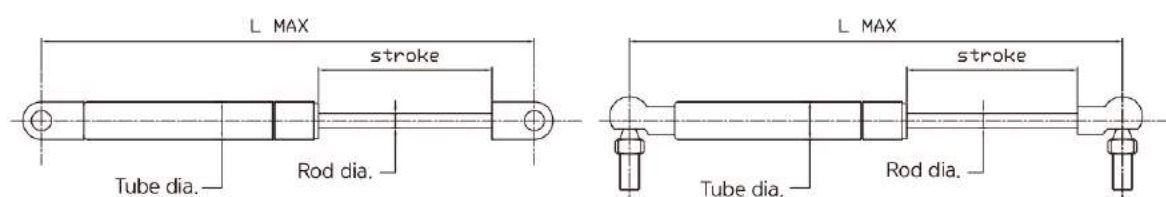
## L Max Code No. & Stroke Code No.

|                                              |                                              |                    |                  |                             |                             |                             |
|----------------------------------------------|----------------------------------------------|--------------------|------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>B1</b>                                    | <b>P4</b>                                    | <b>450</b>         | <b>190</b>       | <b>G</b>                    | <b>G</b>                    | <b>D</b>                    |
| [1 English alphabet letter + 1-digit number] | [1 English alphabet letter + 1-digit number] | [3~4-digit number] | [3-digit number] | [1 English alphabet letter] | [1 English alphabet letter] | [1 English alphabet letter] |
| 1 Rod & Tube Specification                   | 2 End fitting Specification                  | 3 Max. Length      | Stroke Length    | 4 Tube Bracket              | Rod Bracket                 | 5 Option                    |

It's a combination of [Maximum length + stroke] (unit mm).

### What is maximum length?

Assuming that there are hole-type end fittings at both ends when the gas spring is extended to the maximum, it is the length of the gap between the two-hole centers.



## Tube & Rod Bracket Code No.

|                                              |                                              |                    |                  |                             |                             |                             |
|----------------------------------------------|----------------------------------------------|--------------------|------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>B1</b>                                    | <b>P4</b>                                    | <b>450</b>         | <b>190</b>       | <b>G</b>                    | <b>G</b>                    | <b>D</b>                    |
| [1 English alphabet letter + 1-digit number] | [1 English alphabet letter + 1-digit number] | [3~4-digit number] | [3-digit number] | [1 English alphabet letter] | [1 English alphabet letter] | [1 English alphabet letter] |
| 1 Rod & Tube Specification                   | 2 End fitting Specification                  | 3 Max. Length      | Stroke Length    | 4 Tube Bracket              | Rod Bracket                 | 5 Option                    |

Two uppercase letters of English Alphabet represent brackets code.  
If a product does not have a bracket, there is no code attached to this part.

| Code No. | Bracket   | Material | Thread                                  |
|----------|-----------|----------|-----------------------------------------|
| A        | Bracket   | SPCC     | Spherical R-1 for furniture             |
| B        | Bracket   | SPCC     | Spherical R-2 for furniture             |
| C        | Bracket   | SPCC     | New model A for furniture               |
| D        | Bracket   | SPCC     | New model A-1 for furniture             |
| E        | Bracket   | SPCC     | New model B for furniture               |
| F        | Bracket   | SPCC     | New model B-1 for furniture             |
| H        | Bracket   | SPCC     | New model A for furniture(round type)   |
| I        | Bracket   | SPCC     | New model A-1 for furniture(round type) |
| G        | Ball Stud | S10C     | Φ10*M8*1.25                             |
| J        | Ball Stud | SUS304   | Φ10*M8*1.25                             |
| K        | Ball Stud | S10C     | Φ13*M8*1.25                             |
| L        | Ball Stud | S10C     | Φ13*M10*1.5                             |
| M        | Ball Stud | SUS304   | Φ13*M8*1.25                             |
| N        | Ball Stud | S10C     | Φ16*M10*1.5                             |

## Option Code No.

|                                              |                                              |                    |                  |                             |                             |                             |
|----------------------------------------------|----------------------------------------------|--------------------|------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>B1</b>                                    | <b>P4</b>                                    | <b>450</b>         | <b>190</b>       | <b>G</b>                    | <b>G</b>                    | <b>D</b>                    |
| [1 English alphabet letter + 1-digit number] | [1 English alphabet letter + 1-digit number] | [3~4-digit number] | [3-digit number] | [1 English alphabet letter] | [1 English alphabet letter] | [1 English alphabet letter] |
| 1 Rod & Tube Specification                   | 2 End fitting Specification                  | 3 Max. Length      | Stroke Length    | 4 Tube Bracket              | Rod Bracket                 | 5 Option                    |

| Code No. | Material      |
|----------|---------------|
| Z        | Traction      |
| SF       | Safety lock   |
| D        | Damper spring |





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