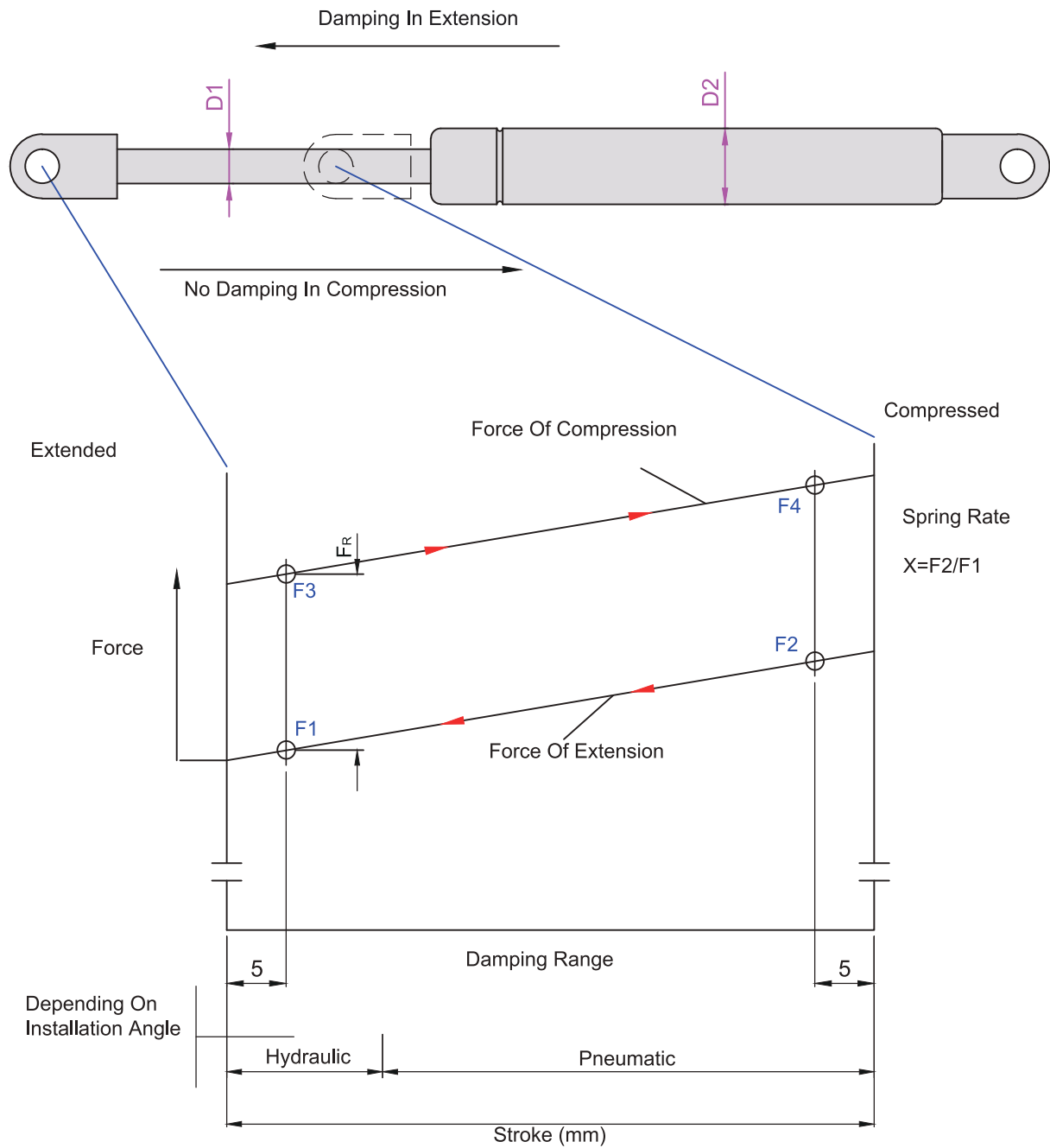




PRODUCT CATALOG



GAS SPRING FORCE DIAGRAM



SPRING FORCE ACTUAL ROD READING AT 5 mm OR 10 mm FORM EACH END OF STROKE

F3=COMPRESSION FORCE PISTON ROD EXTENDED

F4=COMPRESSION FORCE PISTON ROD RETRACTED

F2=EXTENSION FORCE PISTON ROD RETRACTED

F1=EXTENSION FORCE PISTON ROD EXTENDED

FR=FRICTION FORCE = $F3 - F1$, $F4 - F2$

SPRING RATE (X)= $F2/F1$

THE VALUE F1 MEASURED AT $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ WITH THE PISTON ROD SHOWING DOWNWARDS.

Lifting, lowering, moving, adjusting

The gas spring can be designed with an approximately linear, progressive or degressive spring rate curve, to match the special request.

The characteristic curve of the spring describes the progression of the force of the gas spring over the stroke, from the extended to the compressed state and vice versa.

If the spring rate is flat and progresses in a practically linear manner, the force of the gas spring consequently rises only slightly over the entire spring travel.

Spring rate: $X=F2:F1$

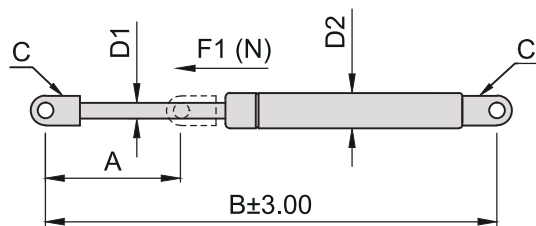
The force diagram on the left shows the line of the extension and compression force with a flat spring rate. The difference between the two lines is the result of the system friction produced during compression and extension.

The measuring points F1 and F4 are each located 5~10 mm before the fully extended and compressed stroke. The measurements were conducted at a temperature of $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$.

You can get details regarding tolerances from the technical drawings or on demand.

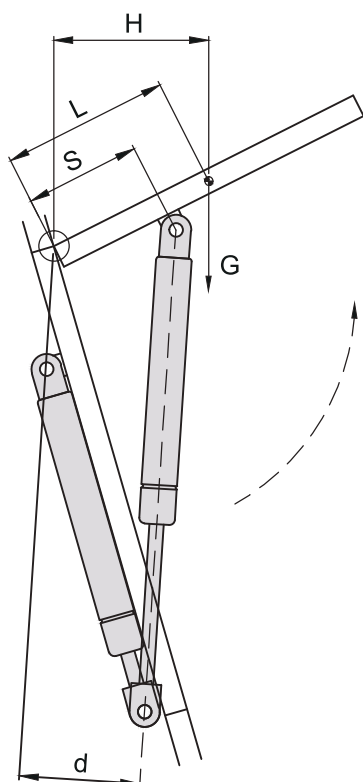


INSTALLATION & CALCULATING



We Hope To Help You Choose The Right Gas Spring For Your Application, You Can Use The Following Approximation Formula And Application Sketch.

- The Stroke A (mm)
- The Extended Length B (mm)
- The Extension Force F1 (N)
- And The Type Of Connection Parts (C)



Determining The Extension Force F1 (N) At 25°C ±3°C

$$F1 = \frac{G \times H}{d \times n} \times 13 \text{ (N)}$$

G = Weight Of Flap In KG

L = Distance From Center Of Gravity To Pivot Point In mm

d = Effective Lever Arm Of Gas Spring In mm, Flap Open.

13 = Conversion Factor KG-N+Safety Margin

S = Flap Attachment (Suggest Approx. 2/3 L)

n = Number Of Gas Spring (Standard : n=2 Pcs)

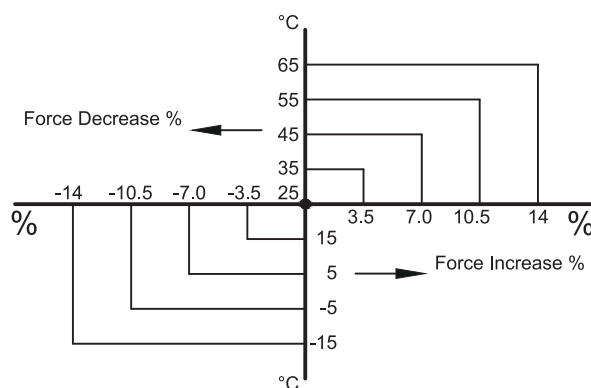
H = Effective Leverarm Of Gravity In mm, Flap Open.

Example :

G=30KG, H=400mm, d=200mm, n=2

$$F1 = \frac{30 \times 400}{200 \times 2} \times 13 \text{ (N)} = 390\text{N}$$

Our General Extension Force Tolerance Is +40N/-20N ±5~7%, Physically, The Actual Force Of Gas Spring Depends On The Temperature. For Each 10°C, The Force Changes About 3.5%. Size And Extension Force Can Be Made According To Your Requirements.

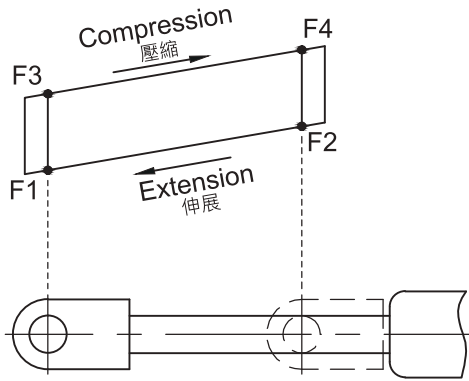


INSTALLATION INSTRUCTIONS :

- Install Without Twisting
- Pivot Only At The Connection Provided
- Avoid Lateral Forces
- It Is Recommended To Install The Unit With The Piston Rod Facing Down, If Possible
- Protect Piston Rod From Dirt, Paint And Damage
- Do Not Perform Any Metal-Cutting Work On The Unit

STAINLESS STEEL GAS SPRING

LIFT-O-MAT Product Range

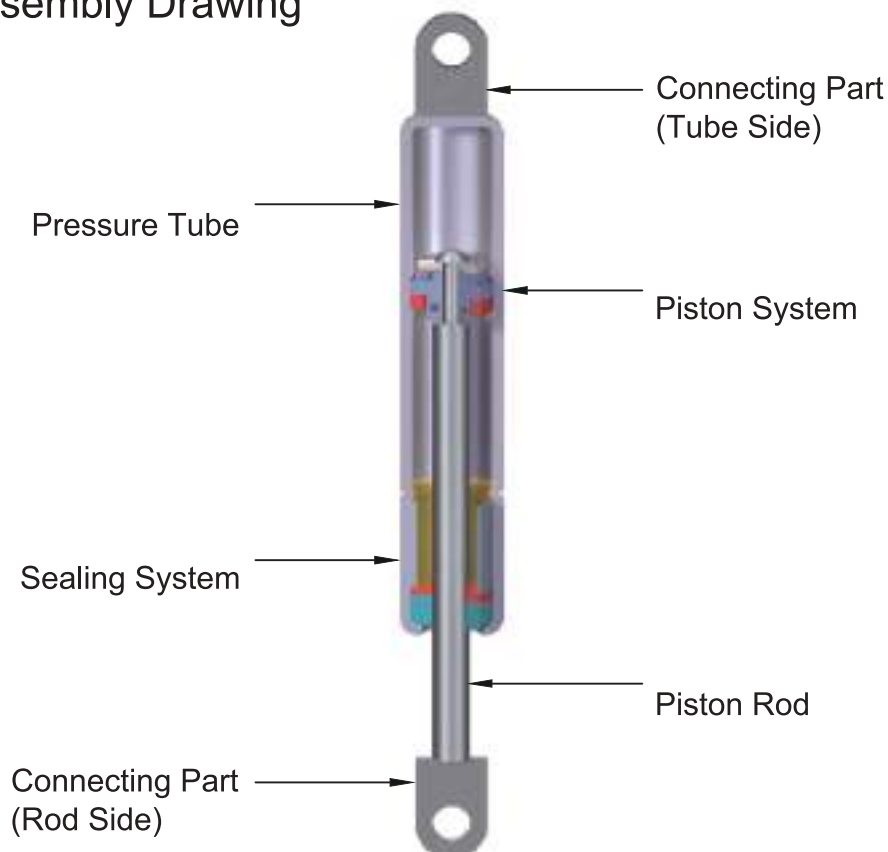


Piston Rod (φ) 軸心	Cylinder (φ) 外管	Stroke (mm) 行程	Force (N) 壓力
4 mm	12 mm	15 ~ 100	10 ~ 80
6 mm	15 mm	40 ~ 150	50 ~ 300
8 mm	18 mm	60 ~ 250	100 ~ 650
10 mm	22 mm	100 ~ 400	100 ~ 1000
14 mm	28 mm	100 ~ 400	300 ~ 2500

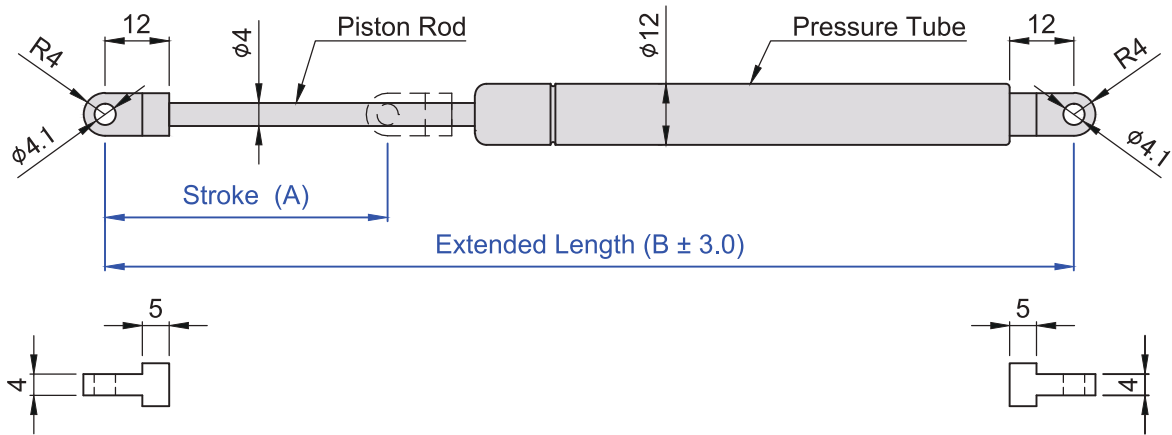
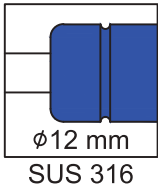
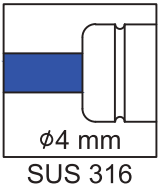
9.8Newton(N)=1Kg=2.2LBS

- A choice can be made between the standard versions with eyelet end fittings or ball sockets.
- Further connection variants available on request.
- Standard features are the proven inside piston rod for extended life, with high resistance to corrosion and an environmentally friendly design.
- Special gas spring types available with protective tube.
- Roll-closed as standard at the pressure tube end to ensure optimal seal without weld seams and high resistance to corrosion.
- With different sets of seals, depending upon the application.
- With hydraulic damping control as a result of patented labyrinth pistons (damping during extension and/or compression of the piston rod).
- With dynamic damping system for achieving the desired degree of damping over the entire stroke of the gas spring.

Gas Spring Assembly Drawing



STAINLESS STEEL GAS SPRING



SUS 303 Eyelet

SUS 303 Eyelet

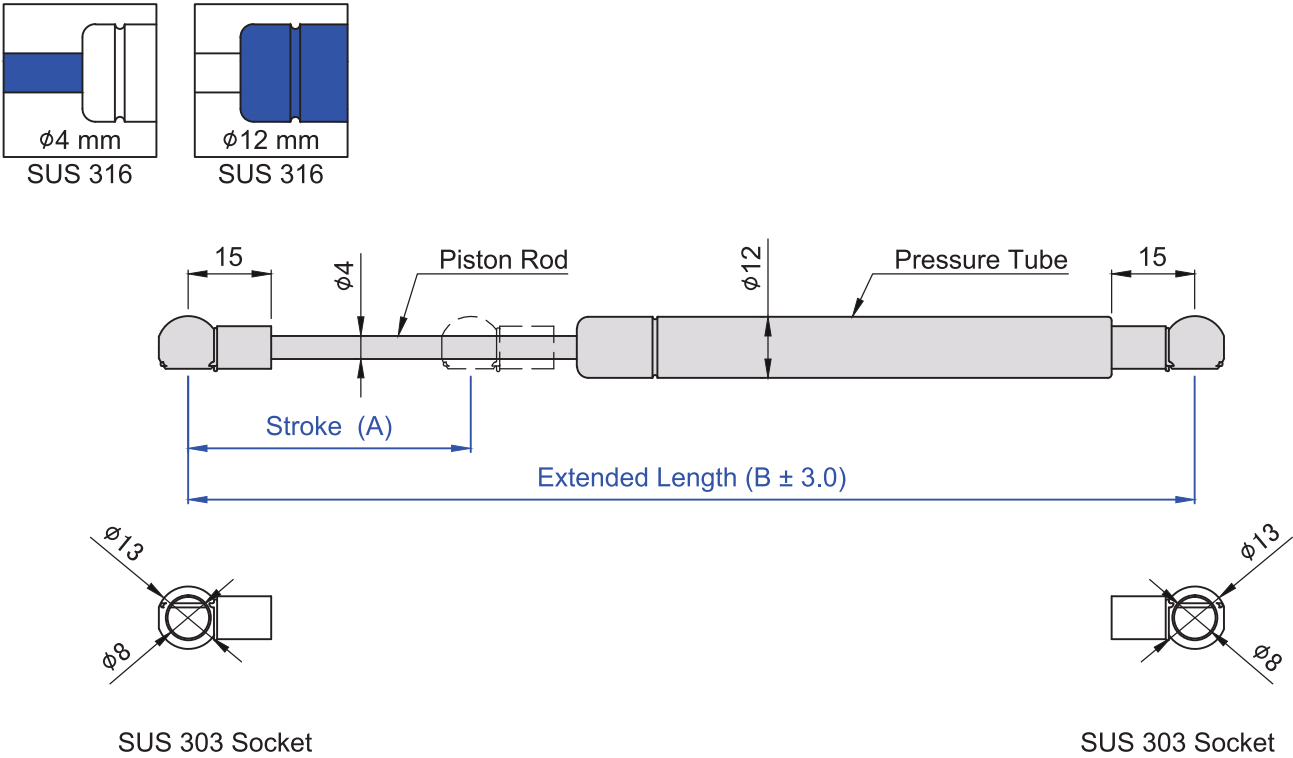
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
KS015079-L1ASM4-XXXN	15	79	10~80
KS020089-L1ASM4-XXXN	20	89	
KS030109-L1ASM4-XXXN	30	109	
KS040129-L1ASM4-XXXN	40	129	
KS050149-L1ASM4-XXXN	50	149	
KS060169-L1ASM4-XXXN	60	169	
KS070189-L1ASM4-XXXN	70	189	
KS080209-L1ASM4-XXXN	80	209	
KS090229-L1ASM4-XXXN	90	229	
KS100249-L1ASM4-XXXN	100	249	

- When you making inquiry , Please advise us the F1(NEWTON) force ,Other size also available ,Please contact us for further information.
- Recommend to reserve 5~10mm space on stroke when full compressed to avoid impact.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.



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STAINLESS STEEL GAS SPRING



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

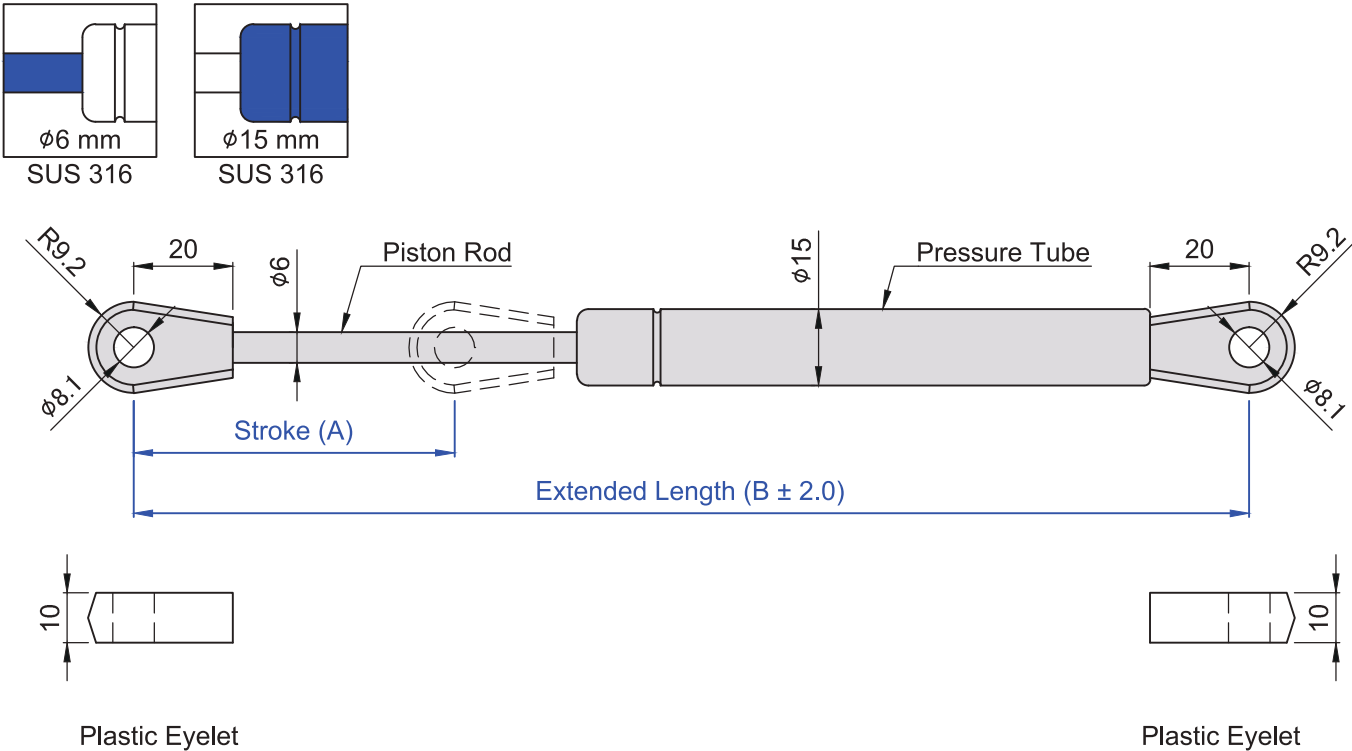
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
KS015085-C13S15-XXXN	15	85	10~80
KS020095-C13S15-XXXN	20	95	
KS030115-C13S15-XXXN	30	115	
KS040135-C13S15-XXXN	40	135	
KS050155-C13S15-XXXN	50	155	
KS060175-C13S15-XXXN	60	175	
KS070195-C13S15-XXXN	70	195	
KS080215-C13S15-XXXN	80	215	
KS090235-C13S15-XXXN	90	235	
KS100255-C13S15-XXXN	100	255	

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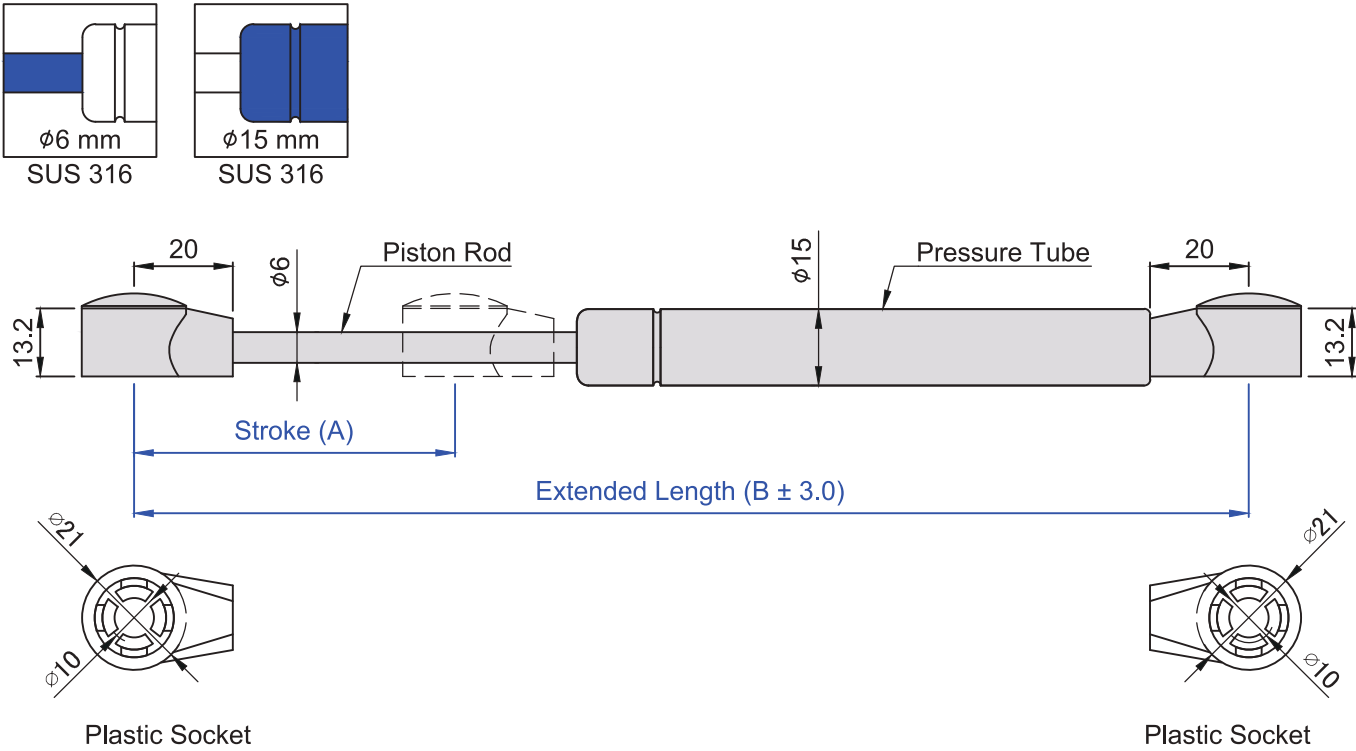
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
AS040155-SS1-XXXN	40	155	50~300
AS060195-SS1-XXXN	60	195	
AS080240-SS1-XXXN	80	240	
AS090255-SS1-XXXN	90	255	
AS100280-SS1-XXXN	100	280	
AS120315-SS1-XXXN	120	315	
AS150375-SS1-XXXN	150	375	

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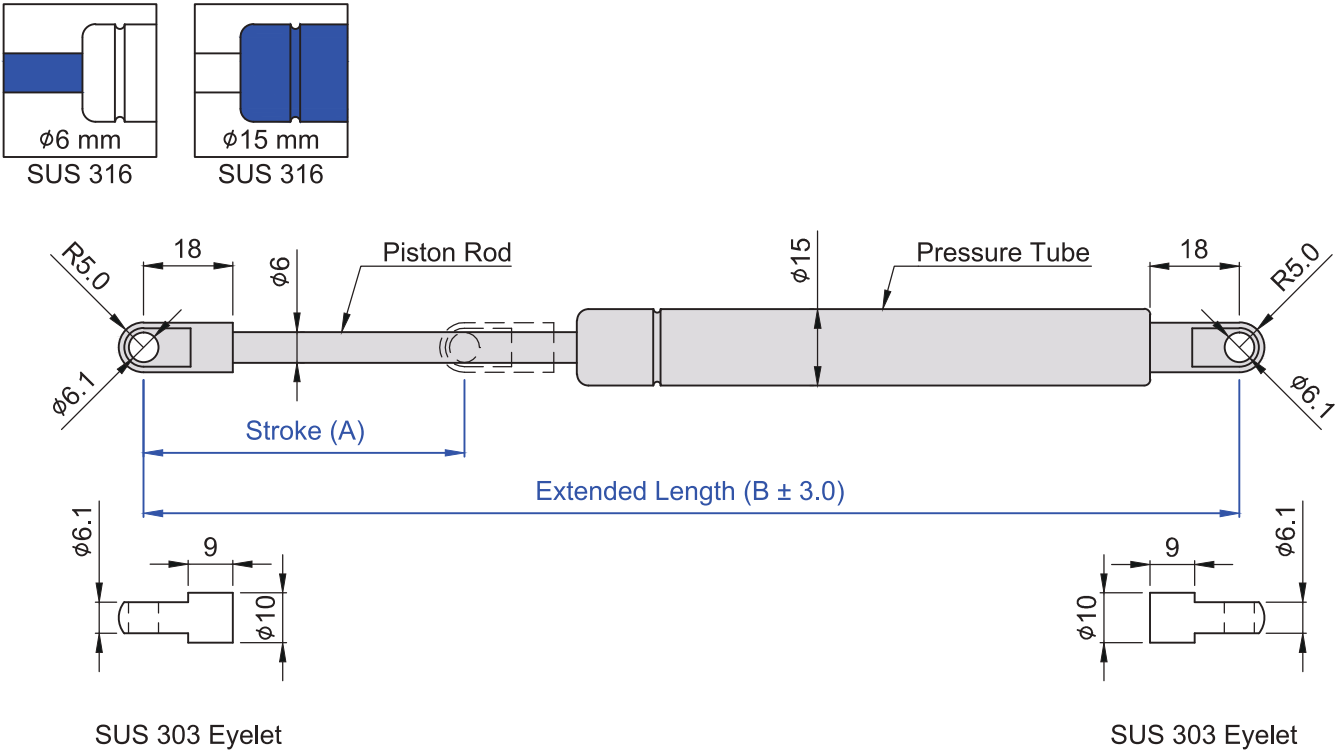
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
AS040155-SS2-XXXN	40	155	50~300
AS060195-SS2-XXXN	60	195	
AS080240-SS2-XXXN	80	240	
AS090255-SS2-XXXN	90	255	
AS100280-SS2-XXXN	100	280	
AS120315-SS2-XXXN	120	315	
AS150375-SS2-XXXN	150	375	

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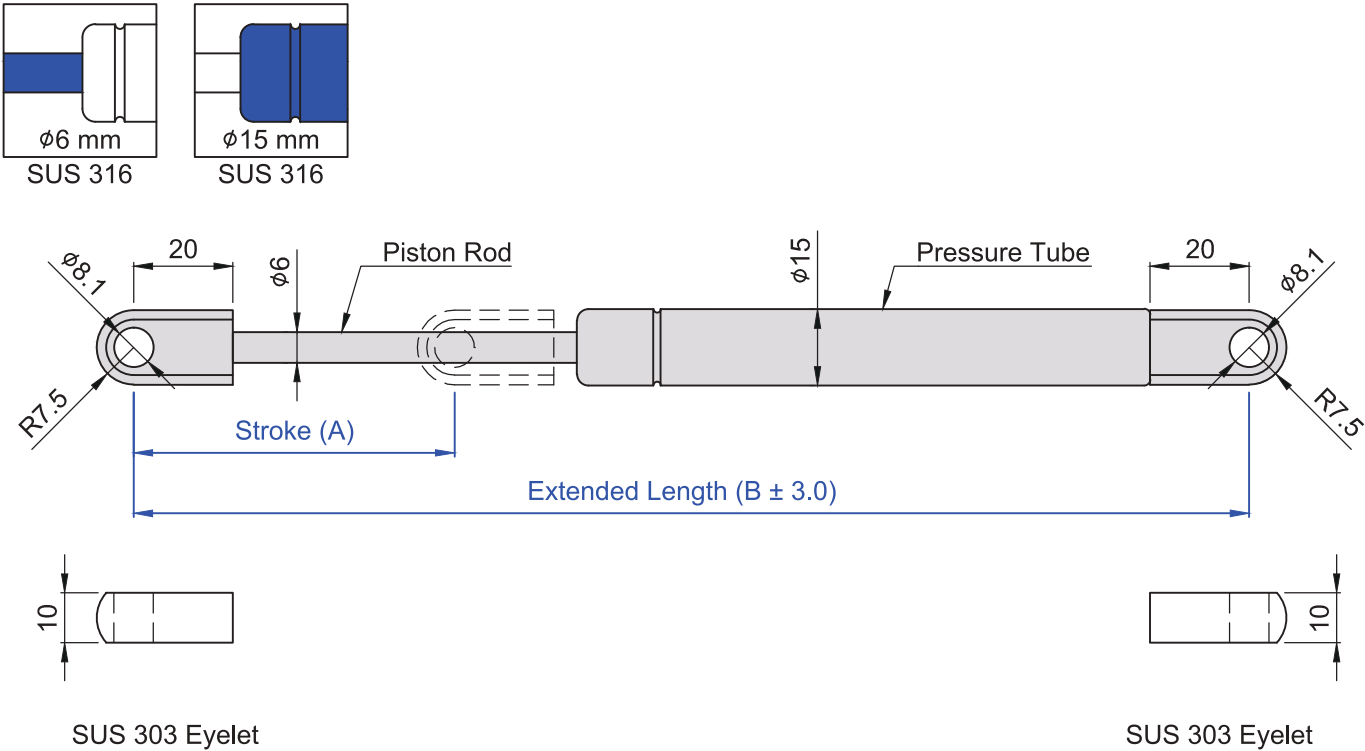
Unit : mm 9.8 Newton(N) = 1 Kg = 2.2 LBS			
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
AS040151-L1S-XXXN	40	151	50~300
AS060191-L1S-XXXN	60	191	
AS080236-L1S-XXXN	80	236	
AS090251-L1S-XXXN	90	251	
AS100276-L1S-XXXN	100	276	
AS120311-L1S-XXXN	120	311	
AS150371-L1S-XXXN	150	371	

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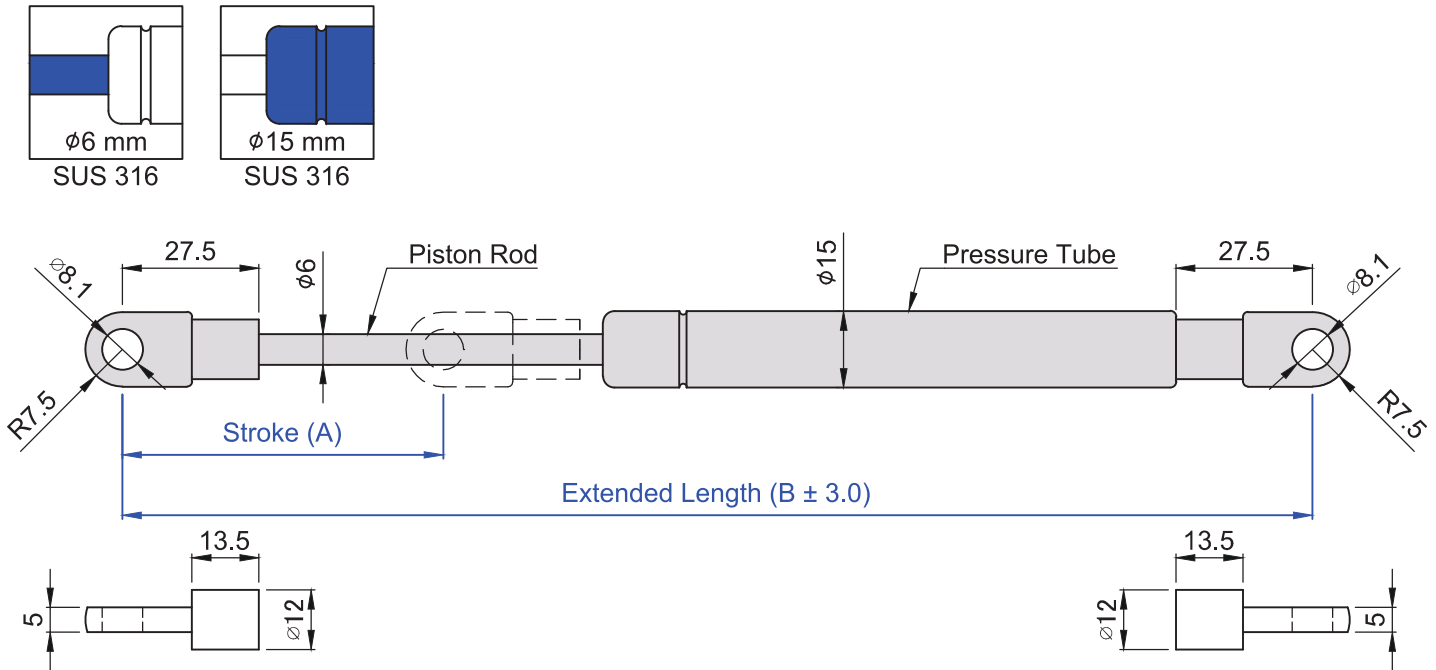
Unit : mm 9.8 Newton(N) = 1 Kg = 2.2 LBS			
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
AS040155-L5S08-XXXN	40	155	50~300
AS060195-L5S08-XXXN	60	195	
AS080240-L5S08-XXXN	80	240	
AS090255-L5S08-XXXN	90	255	
AS100280-L5S08-XXXN	100	280	
AS120315-L5S08-XXXN	120	315	
AS150375-L5S08-XXXN	150	375	

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STAINLESS STEEL GAS SPRING



SUS 303 Eyelet

SUS 303 Eyelet

Unit : mm

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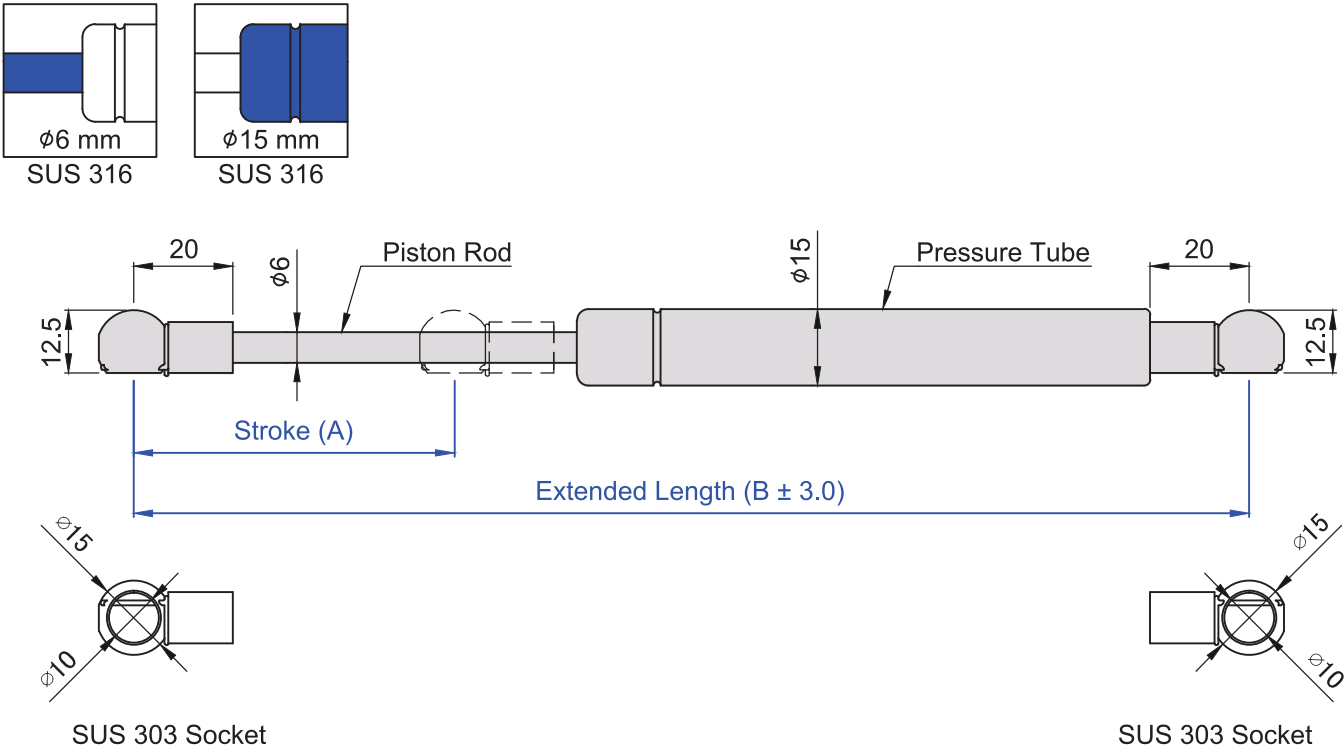
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
AS040170-A15S08-XXXN	40	170	50~300
AS060210-A15S08-XXXN	60	210	
AS080255-A15S08-XXXN	80	255	
AS090270-A15S08-XXXN	90	270	
AS100295-A15S08-XXXN	100	295	
AS120330-A15S08-XXXN	120	330	
AS150390-A15S08-XXXN	150	390	

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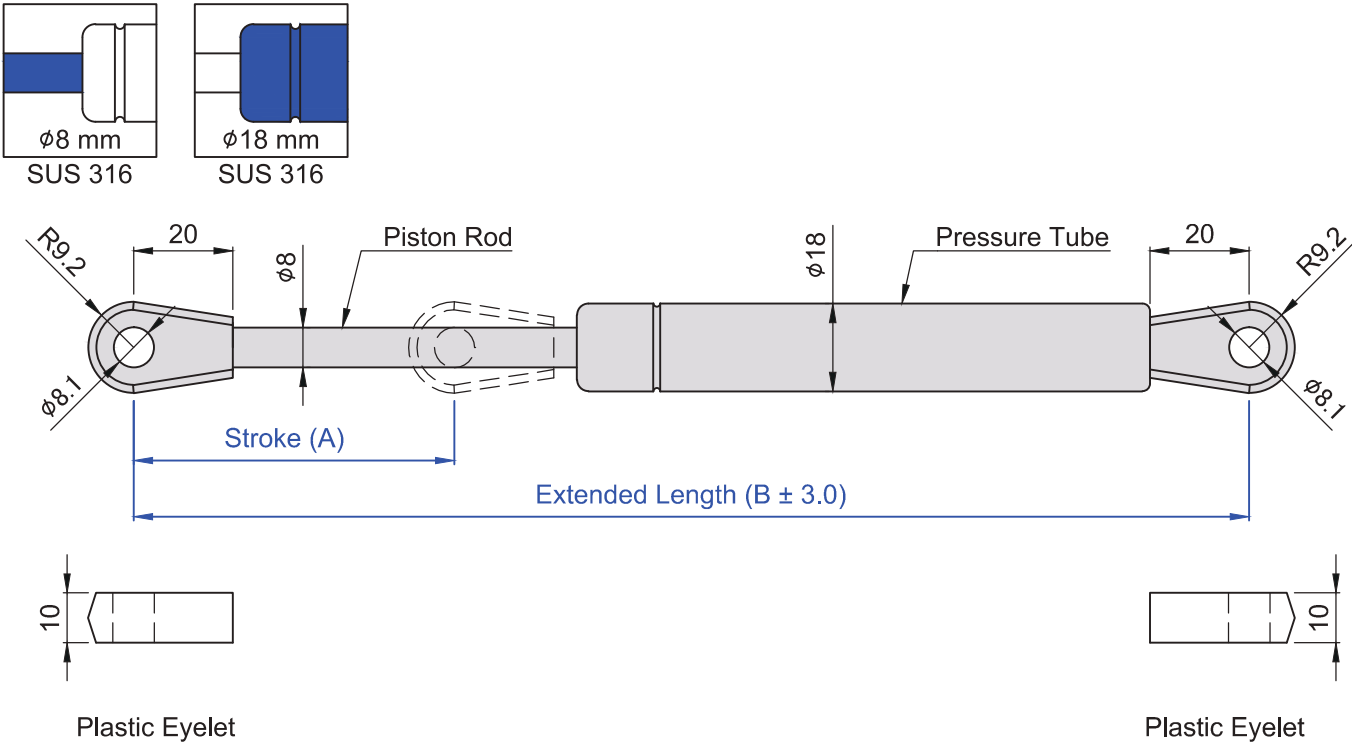
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
AS040155-C9S20-XXXN	40	155	50~300
AS060195-C9S20-XXXN	60	195	
AS080240-C9S20-XXXN	80	240	
AS090255-C9S20-XXXN	90	255	
AS100280-C9S20-XXXN	100	280	
AS120315-C9S20-XXXN	120	315	
AS150375-C9S20-XXXN	150	375	

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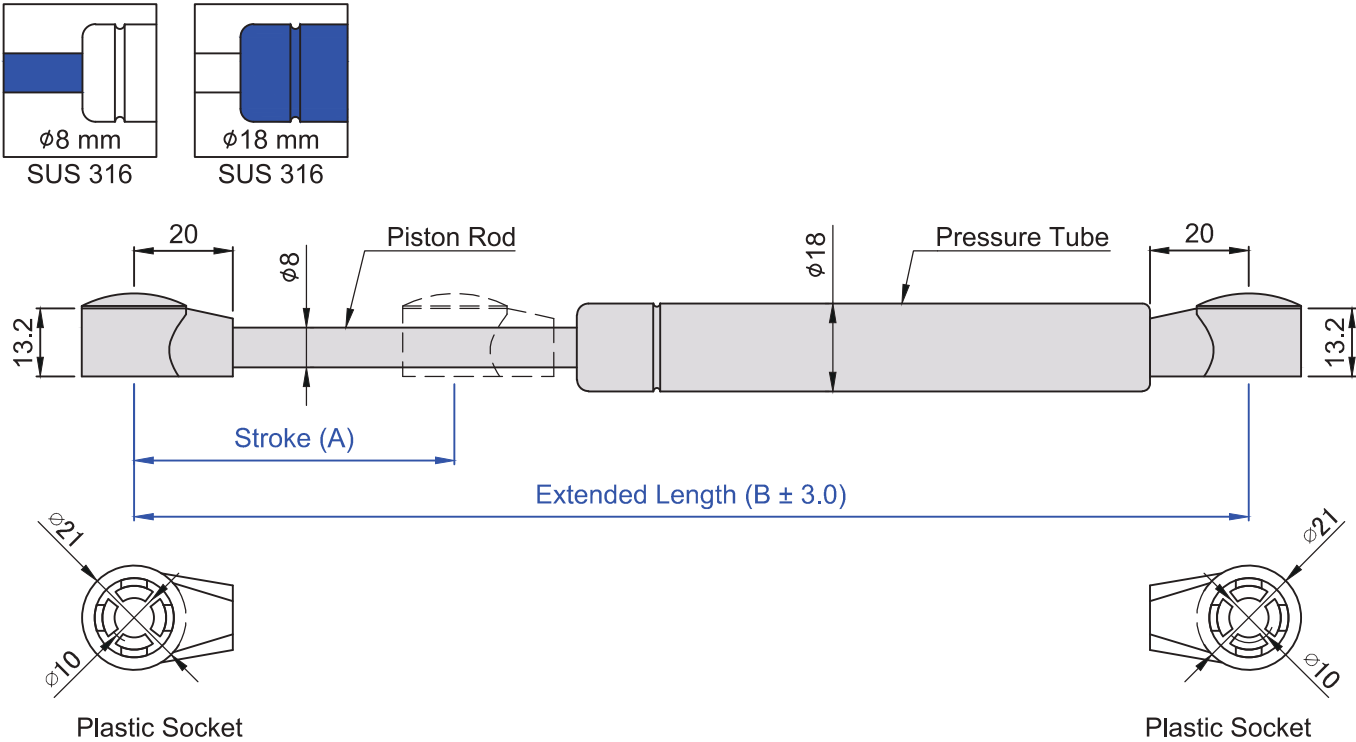
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
BS060205-SS1-XXXN	60	205	100~650
BS080245-SS1-XXXN	80	245	
BS100285-SS1-XXXN	100	285	
BS120325-SS1-XXXN	120	325	
BS140365-SS1-XXXN	140	365	
BS160405-SS1-XXXN	160	405	
BS180445-SS1-XXXN	180	445	
BS200485-SS1-XXXN	200	485	
BS220525-SS1-XXXN	220	525	
BS250585-SS1-XXXN	250	585	

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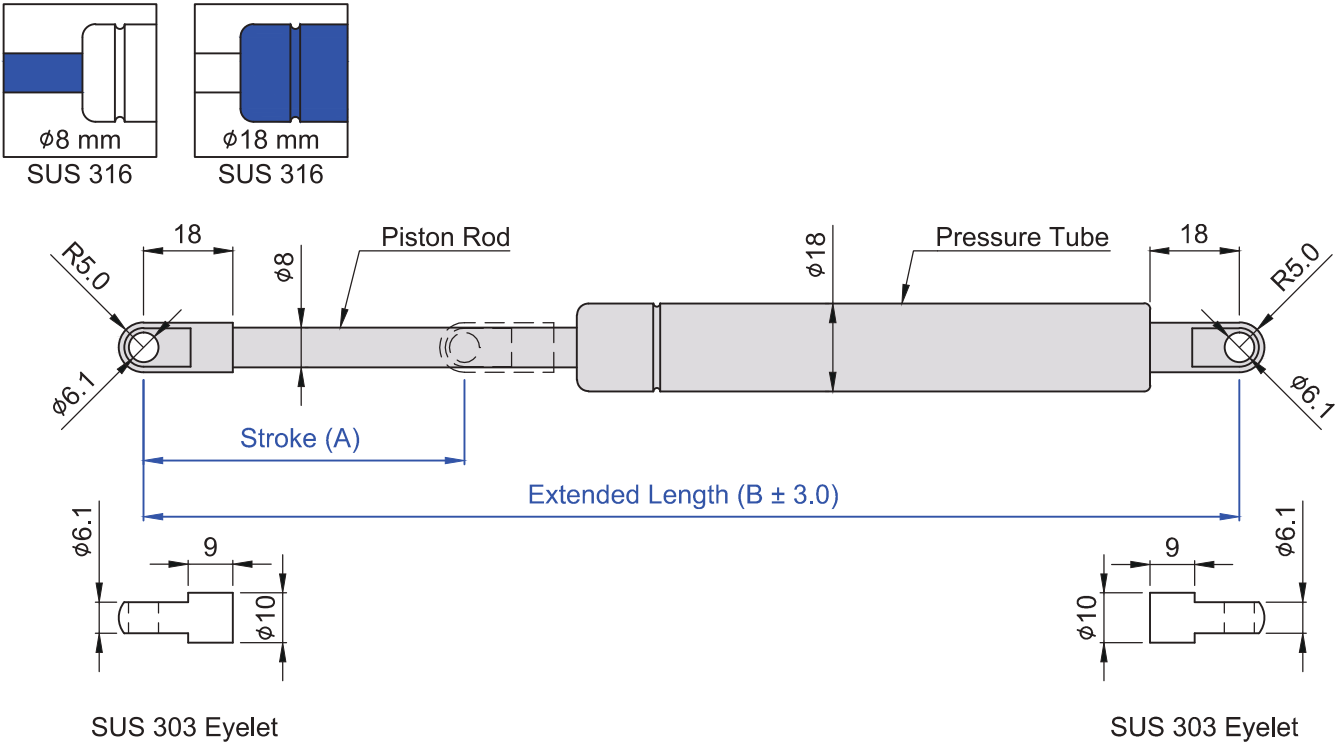
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
BS060205-SS2-XXXN	60	205	100~650
BS080245-SS2-XXXN	80	245	
BS100285-SS2-XXXN	100	285	
BS120325-SS2-XXXN	120	325	
BS140365-SS2-XXXN	140	365	
BS160405-SS2-XXXN	160	405	
BS180445-SS2-XXXN	180	445	
BS200485-SS2-XXXN	200	485	
BS220525-SS2-XXXN	220	525	
BS250585-SS2-XXXN	250	585	

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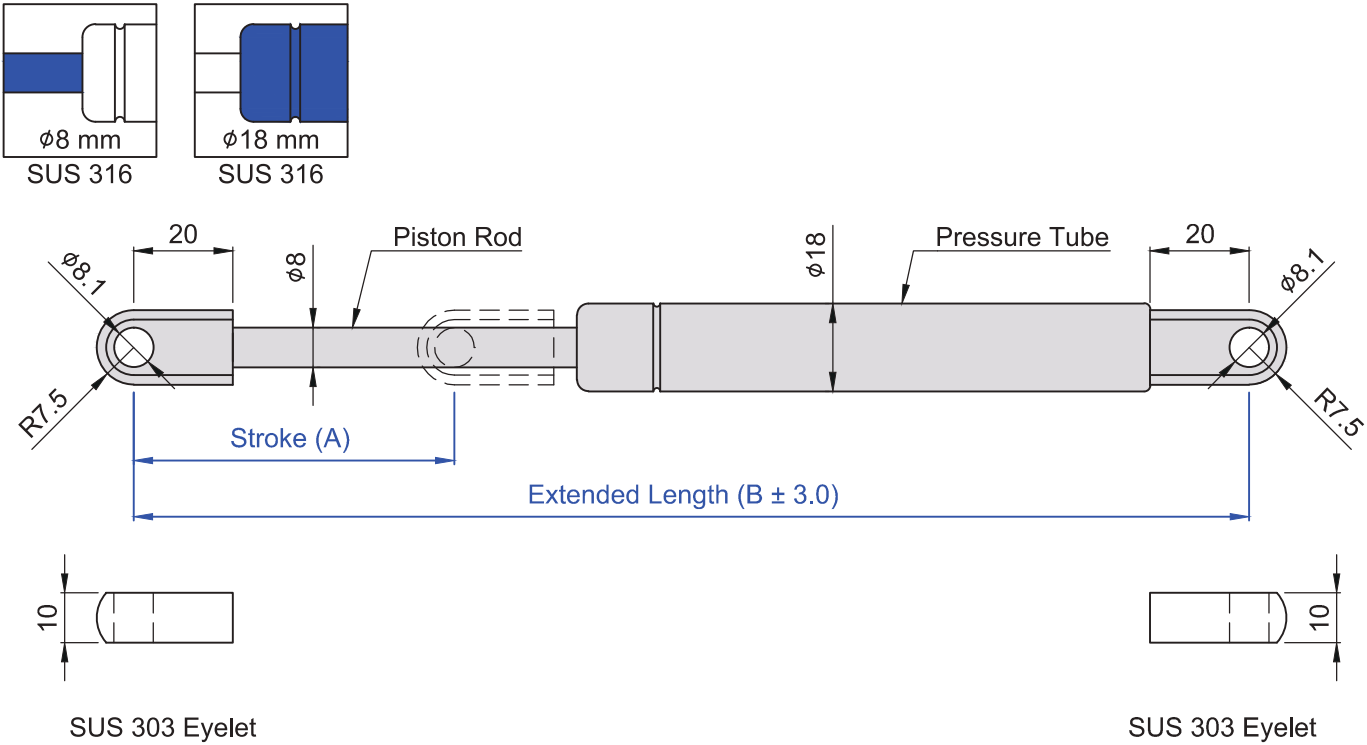
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
BS060201-L1S-XXXN	60	201	100~650
BS080241-L1S-XXXN	80	241	
BS100281-L1S-XXXN	100	281	
BS120321-L1S-XXXN	120	321	
BS140361-L1S-XXXN	140	361	
BS160401-L1S-XXXN	160	401	
BS180441-L1S-XXXN	180	441	
BS200481-L1S-XXXN	200	481	
BS220521-L1S-XXXN	220	521	
BS250581-L1S-XXXN	250	581	

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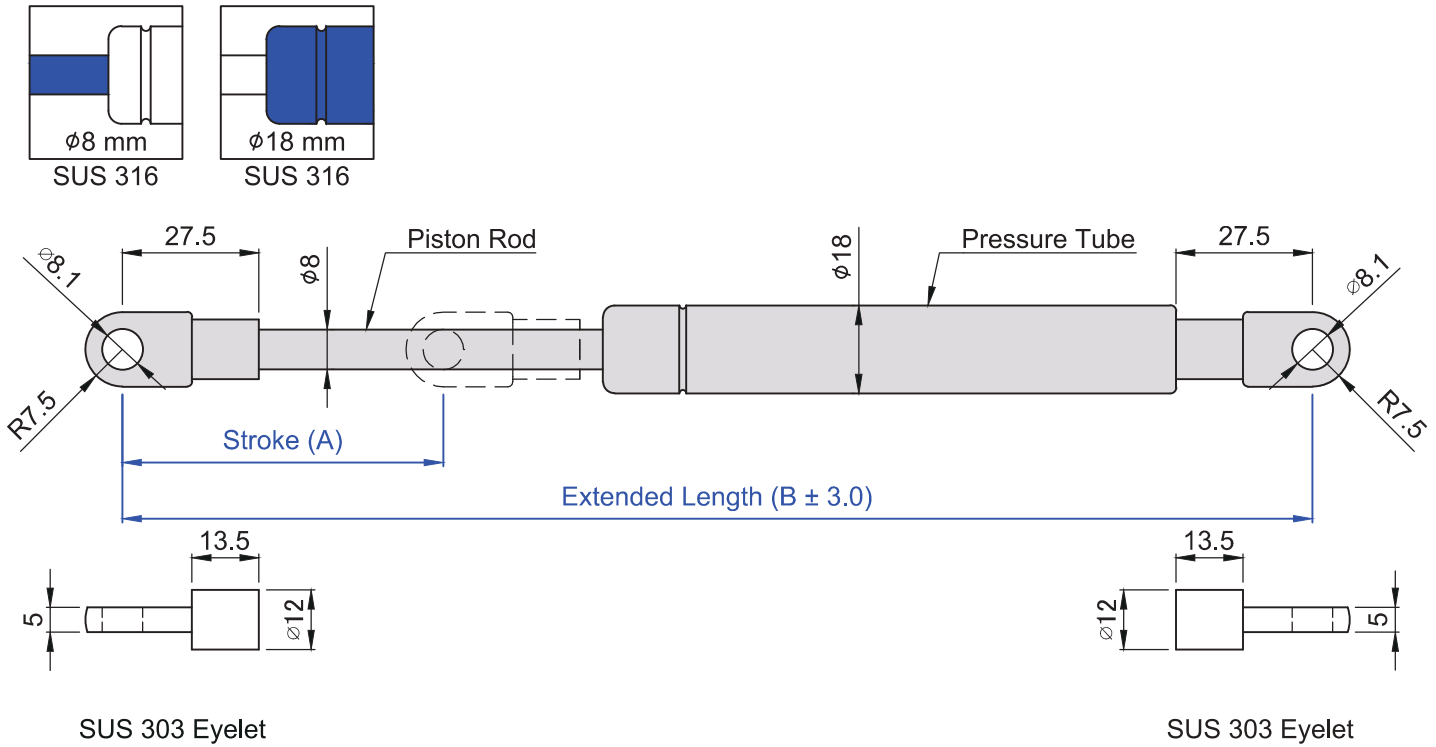
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
BS060205-L5S08-XXXN	60	205	100~650
BS080245-L5S08-XXXN	80	245	
BS100285-L5S08-XXXN	100	285	
BS120325-L5S08-XXXN	120	325	
BS140365-L5S08-XXXN	140	365	
BS160405-L5S08-XXXN	160	405	
BS180445-L5S08-XXXN	180	445	
BS200485-L5S08-XXXN	200	485	
BS220525-L5S08-XXXN	220	525	
BS250585-L5S08-XXXN	250	585	

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STAINLESS STEEL GAS SPRING



SUS 303 Eyelet

SUS 303 Eyelet

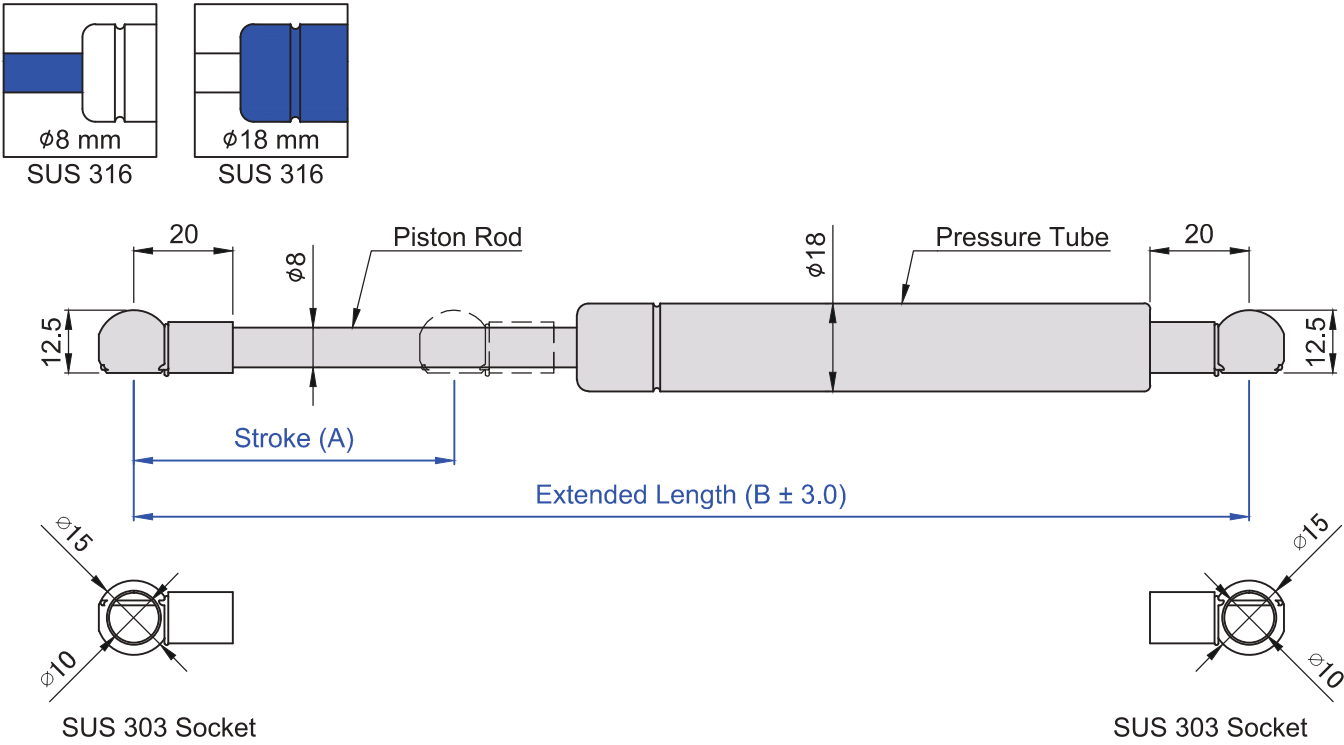
Unit : mm 9.8 Newton(N) = 1 Kg = 2.2 LBS			
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
BS060220-A15S08-XXXN	60	220	100~650
BS080260-A15S08-XXXN	80	260	
BS100300-A15S08-XXXN	100	300	
BS120340-A15S08-XXXN	120	340	
BS140380-A15S08-XXXN	140	380	
BS160420-A15S08-XXXN	160	420	
BS180460-A15S08-XXXN	180	460	
BS200500-A15S08-XXXN	200	500	
BS220540-A15S08-XXXN	220	540	
BS250600-A15S08-XXXN	250	600	

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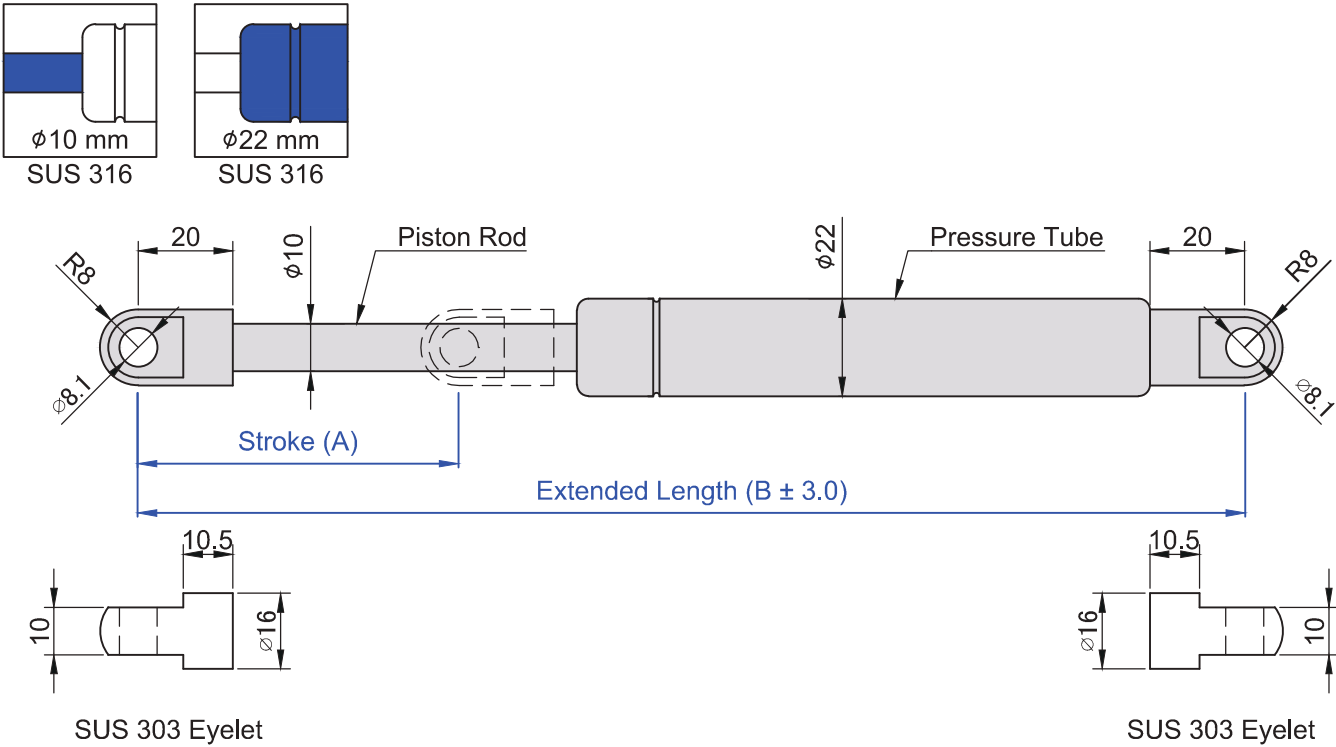
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
BS060205-C9S20-XXXN	60	205	100~650
BS080245-C9S20-XXXN	80	245	
BS100285-C9S20-XXXN	100	285	
BS120325-C9S20-XXXN	120	325	
BS140365-C9S20-XXXN	140	365	
BS160405-C9S20-XXXN	160	405	
BS180445-C9S20-XXXN	180	445	
BS200485-C9S20-XXXN	200	485	
BS220525-C9S20-XXXN	220	525	
BS250585-C9S20-XXXN	250	585	

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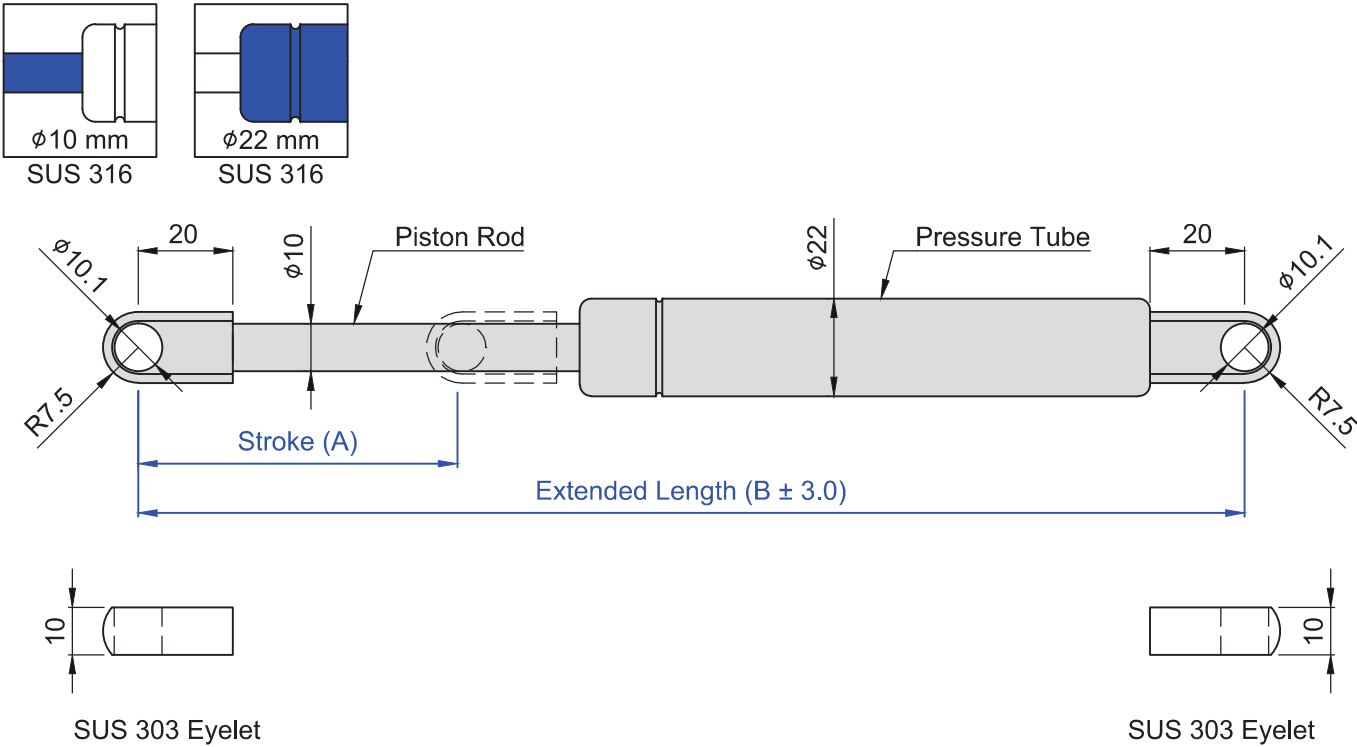
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
CS100285-L2S-XXXN	100	285	100~1000
CS150385-L2S-XXXN	150	385	
CS200485-L2S-XXXN	200	485	
CS250585-L2S-XXXN	250	585	
CS300685-L2S-XXXN	300	685	
CS350785-L2S-XXXN	350	785	
CS400885-L2S-XXXN	400	885	

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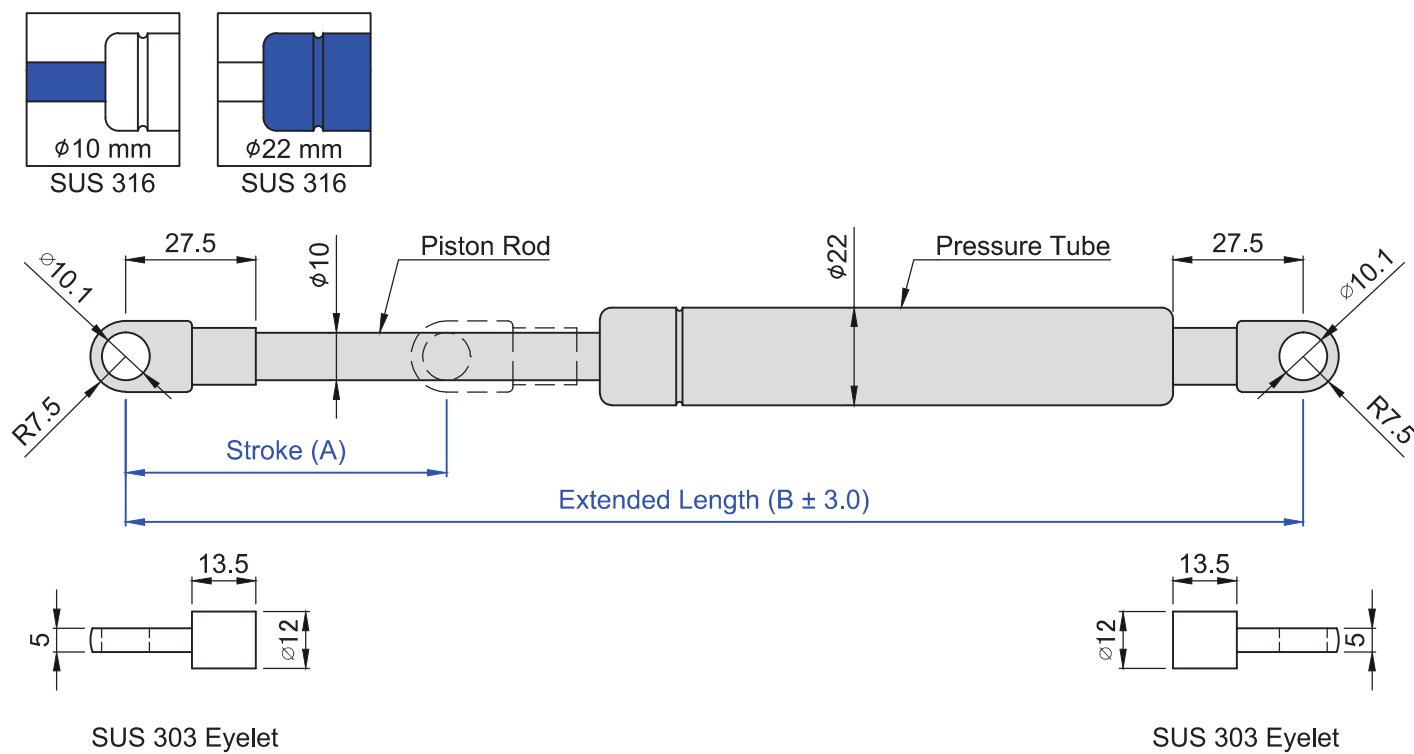
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
CS100285-L5S10-XXXN	100	285	100~1000
CS150385-L5S10-XXXN	150	385	
CS200485-L5S10-XXXN	200	485	
CS250585-L5S10-XXXN	250	585	
CS300685-L5S10-XXXN	300	685	
CS350785-L5S10-XXXN	350	785	
CS400885-L5S10-XXXN	400	885	

- When you making inquiry , Please advise us the F1(NEWTON) force ,Other size also available ,Please contact us for further information.
- Recommend to reserve 5~10mm space on stroke when full compressed to avoid impact.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.



The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

STAINLESS STEEL GAS SPRING



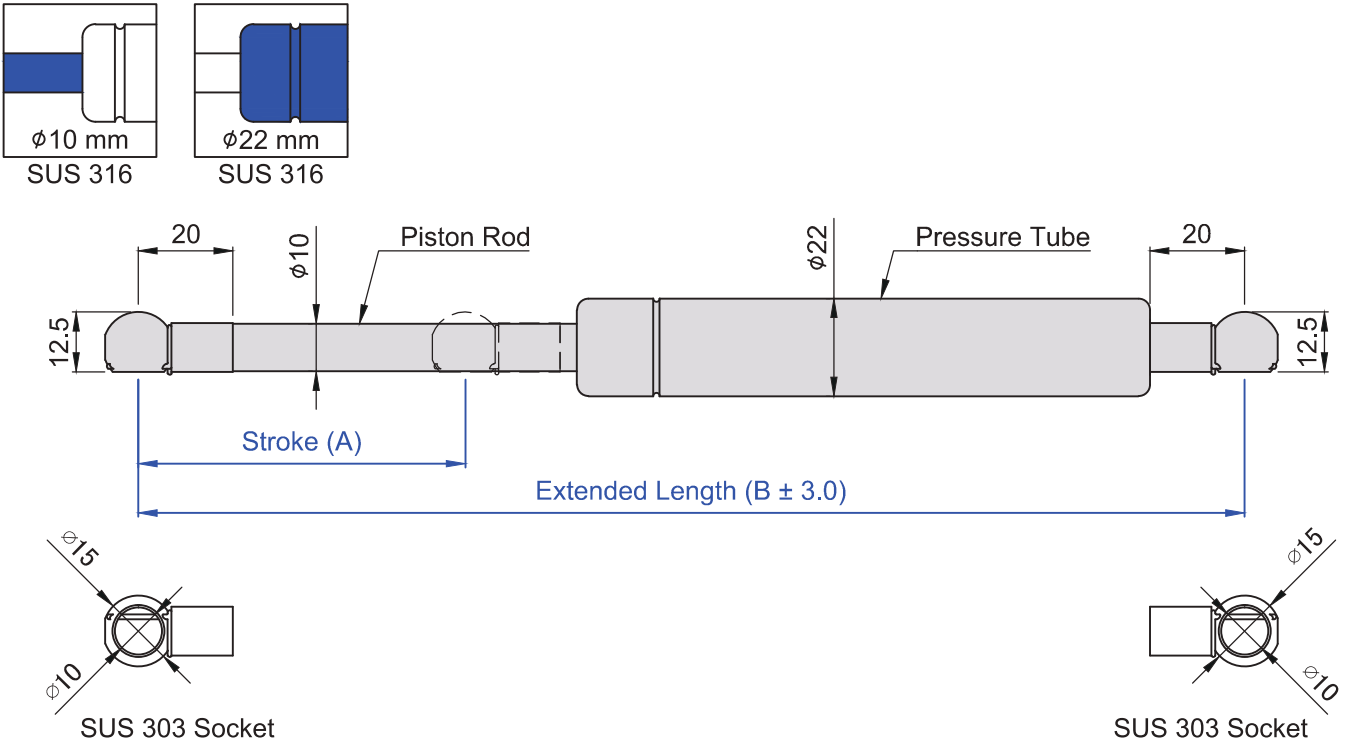
Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
CS100300-A15S10-XXXN	100	300	100~1000
CS150400-A15S10-XXXN	150	400	
CS200500-A15S10-XXXN	200	500	
CS250600-A15S10-XXXN	250	600	
CS300700-A15S10-XXXN	300	700	
CS350800-A15S10-XXXN	350	800	
CS400900-A15S10-XXXN	400	900	

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STAINLESS STEEL GAS SPRING



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

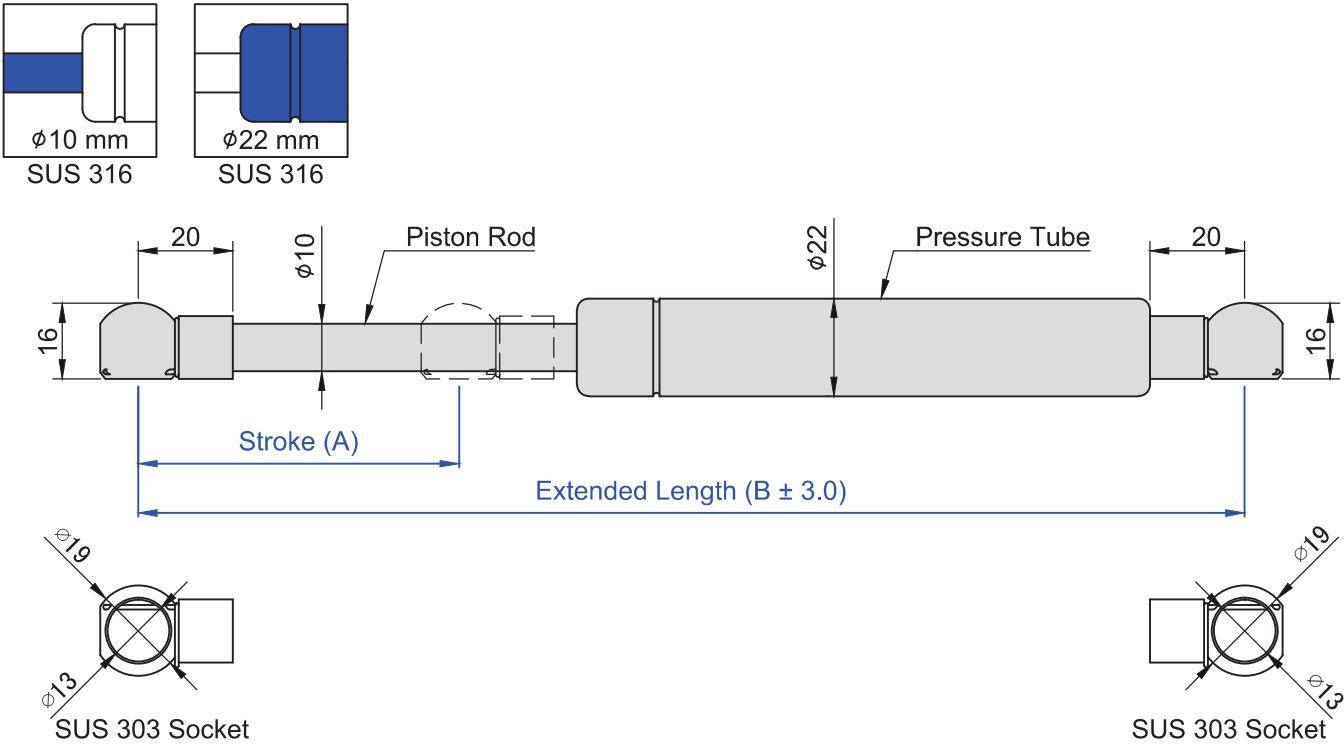
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
CS100285-C9S20-XXXN	100	285	100~1000
CS150385-C9S20-XXXN	150	385	
CS200485-C9S20-XXXN	200	485	
CS250585-C9S20-XXXN	250	585	
CS300685-C9S20-XXXN	300	685	
CS350785-C9S20-XXXN	350	785	
CS400885-C9S20-XXXN	400	885	

- When you making inquiry , Please advise us the F1(NEWTON) force ,Other size also available ,Please contact us for further information.
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STAINLESS STEEL GAS SPRING



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

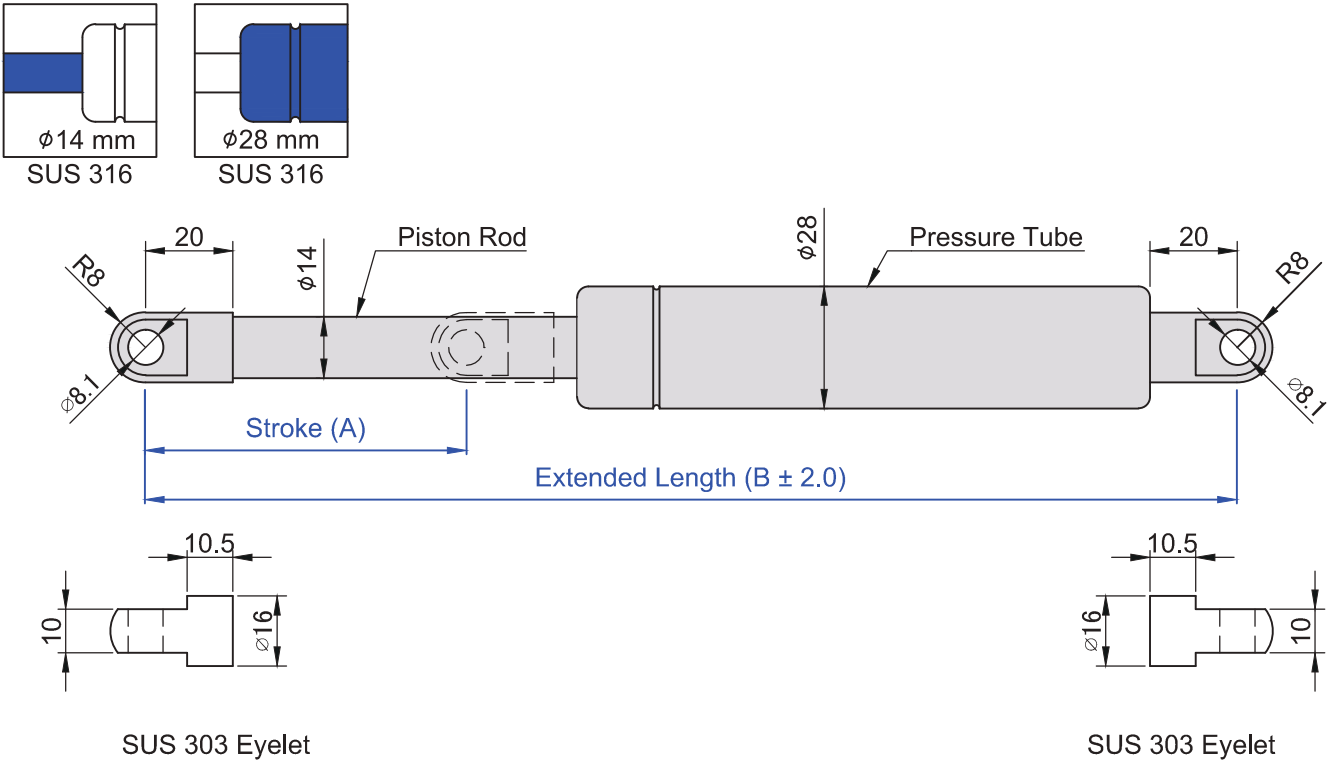
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
CS100285-C19S20-XXXN	100	285	100~1000
CS150385-C19S20-XXXN	150	385	
CS200485-C19S20-XXXN	200	485	
CS250585-C19S20-XXXN	250	585	
CS300685-C19S20-XXXN	300	685	
CS350785-C19S20-XXXN	350	785	
CS400885-C19S20-XXXN	400	885	

- When you making inquiry , Please advise us the F1(NEWTON) force ,Other size also available ,Please contact us for further information.
- Recommend to reserve 5~10mm space on stroke when full compressed to avoid impact.
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STAINLESS STEEL GAS SPRING



Unit : mm 9.8 Newton(N) = 1 Kg = 2.2 LBS			
Model No.	Stroke A(mm)	Extended Length B(mm)	Force Range F1 (N)
SSB4-285-L2S-XXXN	100	285	300~2500
SSB4-385-L2S-XXXN	150	385	
SSB4-485-L2S-XXXN	200	485	
SSB4-585-L2S-XXXN	250	585	
SSB4-685-L2S-XXXN	300	685	
SSB4-785-L2S-XXXN	350	785	
SSB4-885-L2S-XXXN	400	885	

- When you making inquiry , Please advise us the F1(NEWTON) force ,Other size also available ,Please contact us for further information.
- Recommend to reserve 5~10mm space on stroke when full compressed to avoid impact.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.

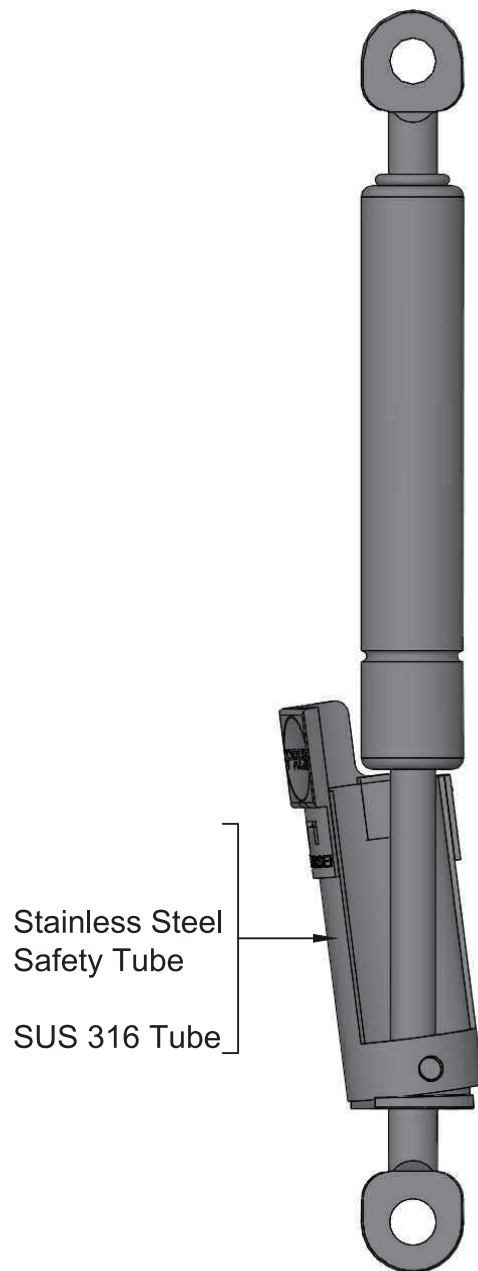


The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

LIFT-O-MAT INOX Safety Type

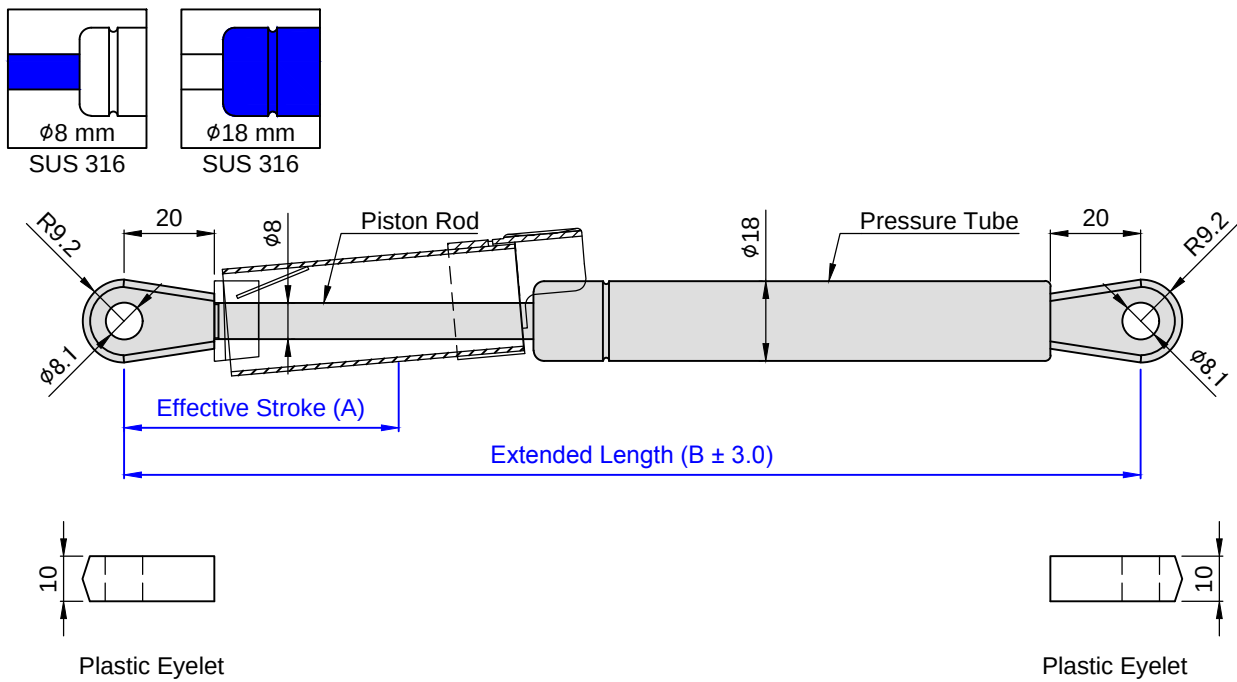
Basically, the principle of actuation is the same as that of a general gas spring. Mainly in the piston rod side append steel tube and spring component. Avoid the failure of the gas spring pressure or the supported mechanism is dangerously caused by other external forces or momentary gusts that cause the cover to close instantly.

Safety gas spring are often used in mobile diner cars, coffee carts, construction vehicle hood, windows and electronic equipment, etc.



STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

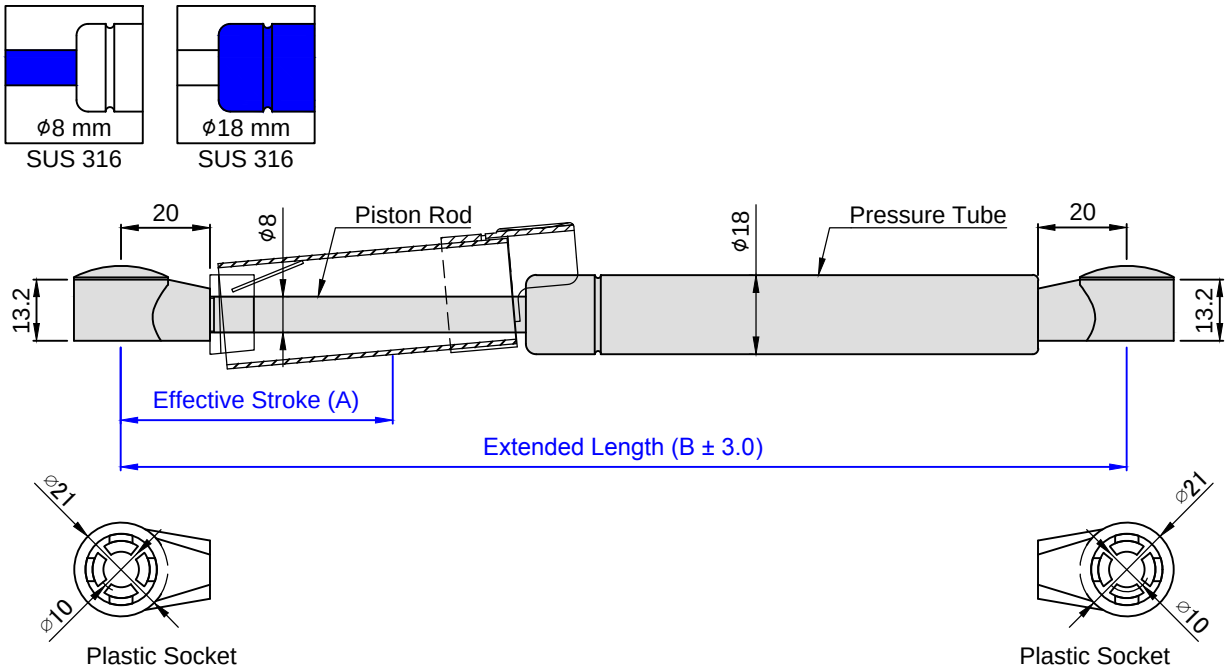
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
BS-205-SS1-XXXNPK	25	205	100~650
BS-245-SS1-XXXNPK	45	245	
BS-285-SS1-XXXNPK	65	285	
BS-325-SS1-XXXNPK	85	325	
BS-365-SS1-XXXNPK	105	365	
BS-405-SS1-XXXNPK	125	405	
BS-445-SS1-XXXNPK	145	445	
BS-485-SS1-XXXNPK	165	485	
BS-525-SS1-XXXNPK	185	525	
BS-585-SS1-XXXNPK	215	585	

- When you making inquiry, Please advise us the F1(NEWTON) force, Other size also available, Please contact us for further information.
- Assembled safety tube, the stroke length will reduce 35 mm.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.

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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

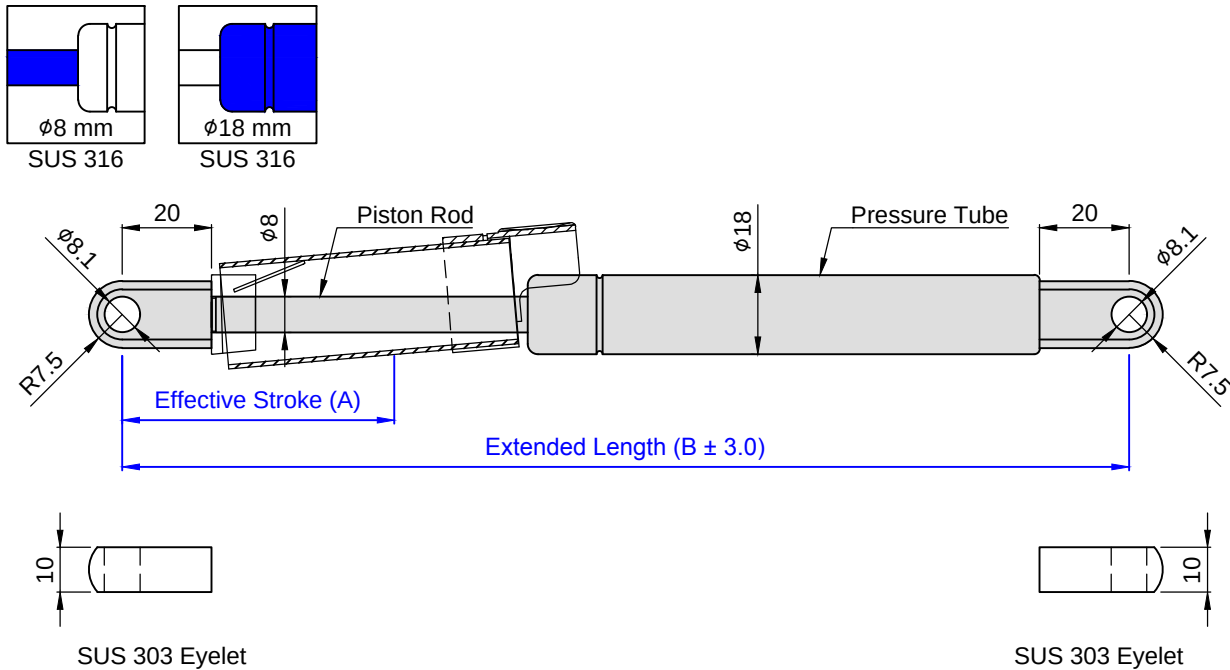
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
BS-205-SS2-XXXNPK	25	205	100~650
BS-245-SS2-XXXNPK	45	245	
BS-285-SS2-XXXNPK	65	285	
BS-325-SS2-XXXNPK	85	325	
BS-365-SS2-XXXNPK	105	365	
BS-405-SS2-XXXNPK	125	405	
BS-445-SS2-XXXNPK	145	445	
BS-485-SS2-XXXNPK	165	485	
BS-525-SS2-XXXNPK	185	525	
BS-585-SS2-XXXNPK	215	585	

- When you making inquiry, Please advise us the F1(NEWTON) force, Other size also available, Please contact us for further information.
- Assembled safety tube,the stroke length will reduce 35 mm.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.

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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

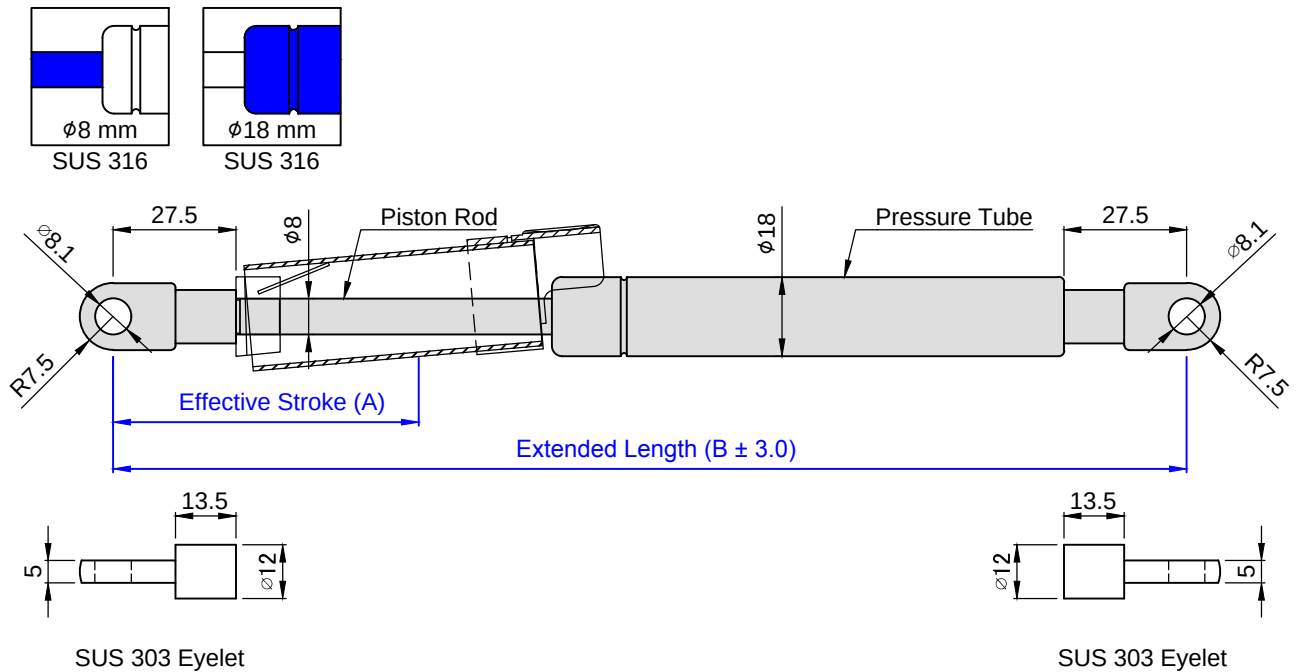
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
BS-205-L5S08-XXXNPK	25	205	100~650
BS-245-L5S08-XXXNPK	45	245	
BS-285-L5S08-XXXNPK	65	285	
BS-325-L5S08-XXXNPK	85	325	
BS-365-L5S08-XXXNPK	105	365	
BS-405-L5S08-XXXNPK	125	405	
BS-445-L5S08-XXXNPK	145	445	
BS-485-L5S08-XXXNPK	165	485	
BS-525-L5S08-XXXNPK	185	525	
BS-585-L5S08-XXXNPK	215	585	

- When you making inquiry, Please advise us the F1(NEWTON) force, Other size also available, Please contact us for further information.
- Assembled safety tube, the stroke length will reduce 35 mm.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.

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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

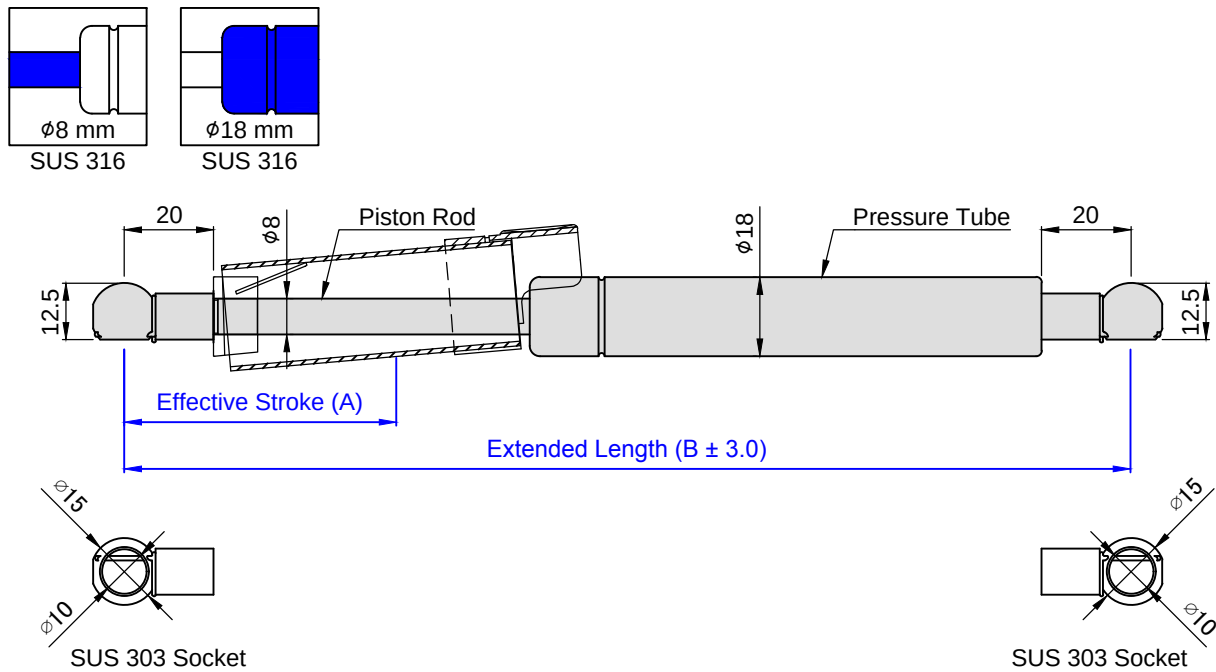
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
BS-220-A15S08-XXXNPK	25	220	100~650
BS-260-A15S08-XXXNPK	45	260	
BS-300-A15S08-XXXNPK	65	300	
BS-340-A15S08-XXXNPK	85	340	
BS-380-A15S08-XXXNPK	105	380	
BS-420-A15S08-XXXNPK	125	420	
BS-460-A15S08-XXXNPK	145	460	
BS-500-A15S08-XXXNPK	165	500	
BS-540-A15S08-XXXNPK	185	540	
BS-600-A15S08-XXXNPK	215	600	

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- Assembled safety tube,the stroke length will reduce 35 mm.
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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

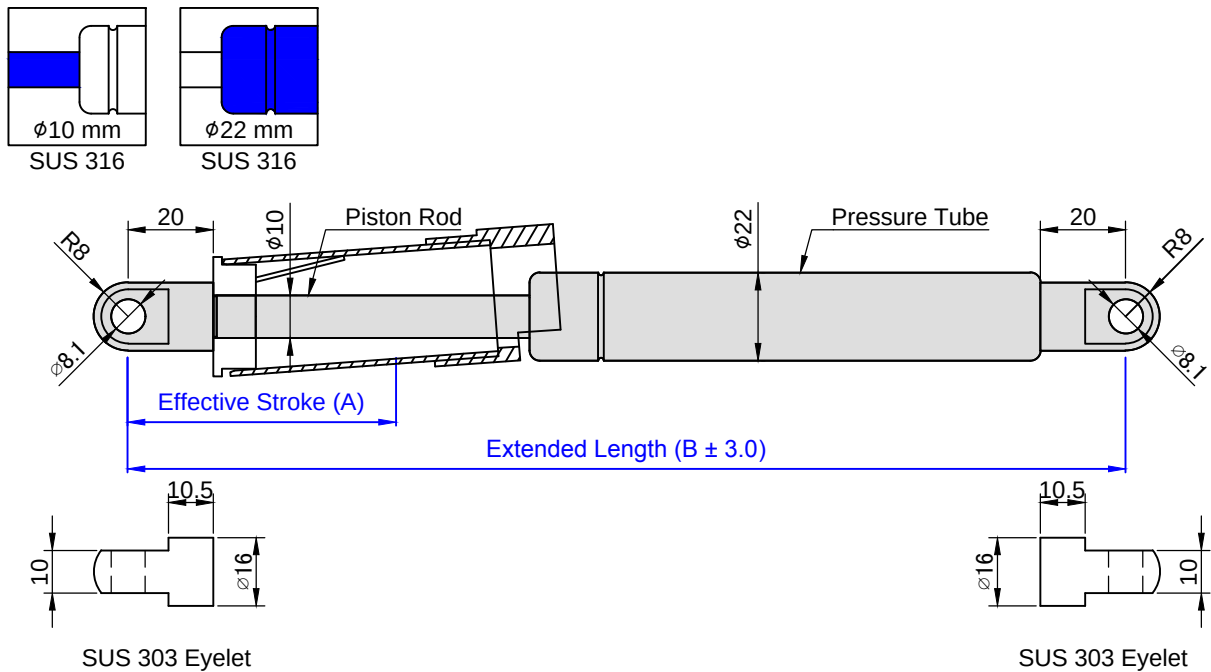
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
BS-205-C9S20-XXXNPK	25	205	100~650
BS-245-C9S20-XXXNPK	45	245	
BS-285-C9S20-XXXNPK	65	285	
BS-325-C9S20-XXXNPK	85	325	
BS-365-C9S20-XXXNPK	105	365	
BS-405-C9S20-XXXNPK	125	405	
BS-445-C9S20-XXXNPK	145	445	
BS-485-C9S20-XXXNPK	165	485	
BS-525-C9S20-XXXNPK	185	525	
BS-585-C9S20-XXXNPK	215	585	

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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

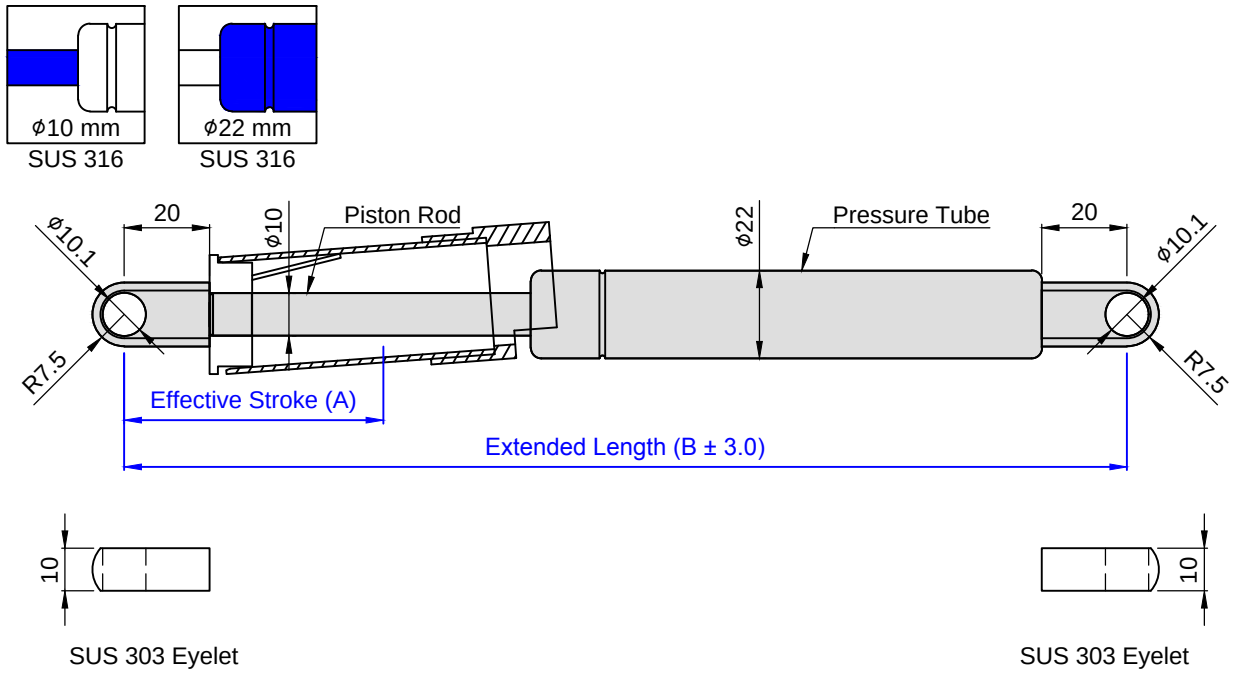
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
CS-285-L2S-XXXNPK	65	285	100~1000
CS-385-L2S-XXXNPK	115	385	
CS-485-L2S-XXXNPK	165	485	
CS-585-L2S-XXXNPK	215	585	
CS-685-L2S-XXXNPK	265	685	
CS-785-L2S-XXXNPK	315	785	
CS-885-L2S-XXXNPK	365	885	

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- Assembled safety tube, the stroke length will reduce 35 mm.
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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

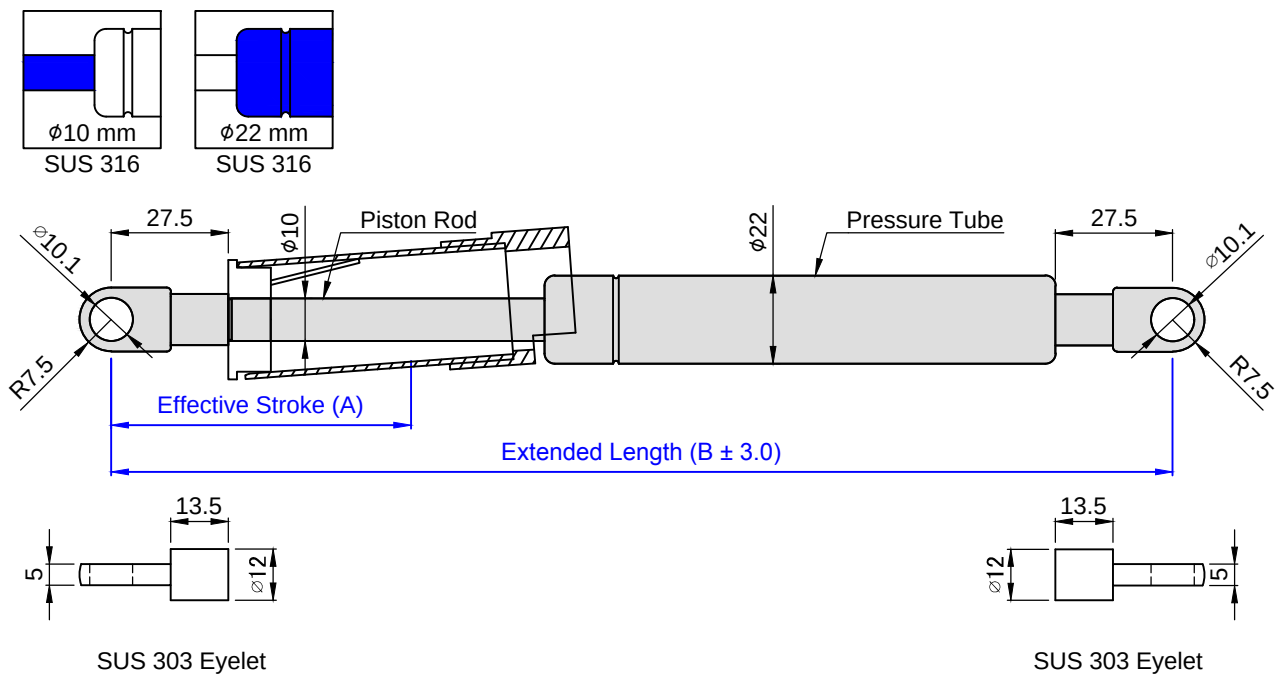
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
CS-285-L5S10-XXXNPK	65	285	100~1000
CS-385-L5S10-XXXNPK	115	385	
CS-485-L5S10-XXXNPK	165	485	
CS-585-L5S10-XXXNPK	215	585	
CS-685-L5S10-XXXNPK	265	685	
CS-785-L5S10-XXXNPK	315	785	
CS-885-L5S10-XXXNPK	365	885	

- When you making inquiry, Please advise us the F1(NEWTON) force, Other size also available, Please contact us for further information.
- Assembled safety tube, the stroke length will reduce 35 mm.
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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

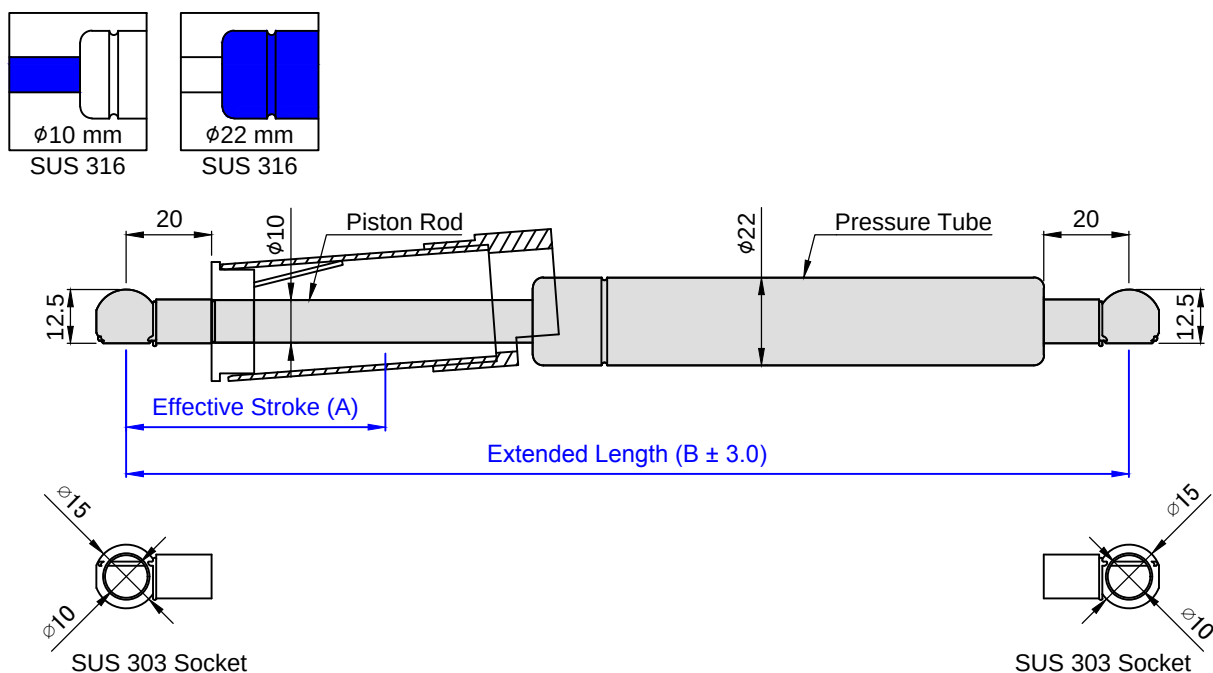
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
CS-300-A15S10-XXXNPK	65	300	100~1000
CS-400-A15S10-XXXNPK	115	400	
CS-500-A15S10-XXXNPK	165	500	
CS-600-A15S10-XXXNPK	215	600	
CS-700-A15S10-XXXNPK	265	700	
CS-800-A15S10-XXXNPK	315	800	
CS-900-A15S10-XXXNPK	365	900	

- When you making inquiry, Please advise us the F1(NEWTON) force, Other size also available, Please contact us for further information.
- Assembled safety tube, the stroke length will reduce 35 mm.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.

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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

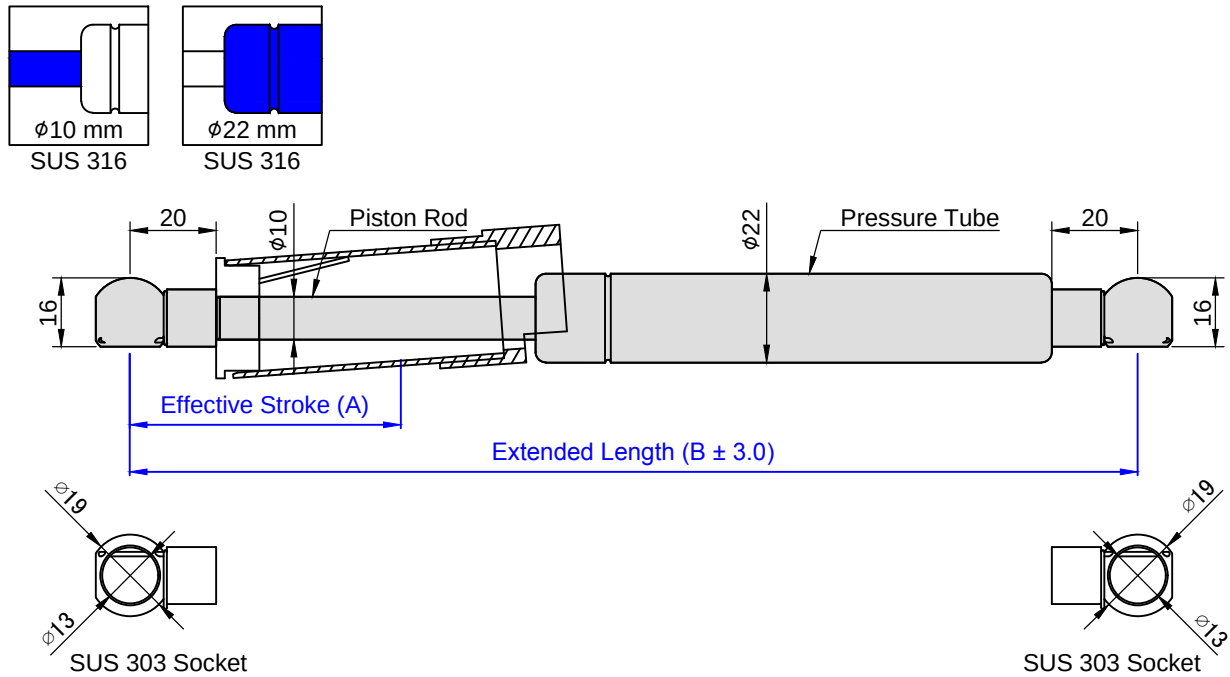
Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
CS-285-C9S20-XXXNPK	65	285	100~1000
CS-385-C9S20-XXXNPK	115	385	
CS-485-C9S20-XXXNPK	165	485	
CS-585-C9S20-XXXNPK	215	585	
CS-685-C9S20-XXXNPK	265	685	
CS-785-C9S20-XXXNPK	315	785	
CS-885-C9S20-XXXNPK	365	885	

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- Assembled safety tube, the stroke length will reduce 35 mm.
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STAINLESS STEEL GAS SPRING

SAFETY TYPE



Unit : mm
9.8 Newton(N) = 1 Kg = 2.2 LBS

Model No.	Effective Stroke (mm)	Extended Length B(mm)	Force Range F1 (N)
CS-285-C19S20-XXXNPK	65	285	100~1000
CS-385-C19S20-XXXNPK	115	385	
CS-485-C19S20-XXXNPK	165	485	
CS-585-C19S20-XXXNPK	215	585	
CS-685-C19S20-XXXNPK	265	685	
CS-785-C19S20-XXXNPK	315	785	
CS-885-C19S20-XXXNPK	365	885	

- When you making inquiry, Please advise us the F1(NEWTON) force, Other size also available, Please contact us for further information.
- Assembled safety tube,the stroke length will reduce 35 mm.
- Choosing definite Ball Studs and Brackets for Gas Spring, please refer to P40~P55.

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STAINLESS STEEL BRACKET / STUD



Model No.	BKTS-06D	BKTS-08D	BKTS-09D	BKTS-16	BKTS-18	BKTS-19A
	Bolt ϕ 4mm	Bolt ϕ 4mm	Bolt ϕ 4mm	Bolt ϕ 6mm	Bolt ϕ 6mm	Bolt ϕ 6mm
Thickness	2mm	2mm	2mm	2mm	2mm	2mm
Page	41	41	42	42	43	43



Model No.	BKTS-06	BKTS-08	BKTS-09A	BKTS-01	BKTS-02	BKTS-03
	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm
Thickness	2mm	2mm	2mm	2mm	2mm	2mm
Page	44	44	45	45	46	46



Model No.	BKTS-04-I	BKTS-04-O	BKTS-05	BKTS-10-I	BKTS-10-O	BKTS-14-O
	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm	Ball ϕ 10mm
Thickness	2.5mm	2.5mm	2mm	2mm	2mm	2.5mm
Page	47	47	48	48	49	49

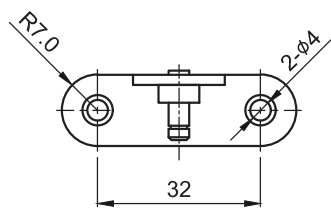


Model No.	BKTS-11	BKTS-12	BKTS-B11	BKTS-B12	BKTS-11A	BKTS-12A
	Bolt ϕ 8mm	Bolt ϕ 8mm	Bolt ϕ 8mm	Bolt ϕ 8mm	Ball ϕ 10mm	Ball ϕ 10mm
Thickness	3mm	3mm	3mm	3mm	3mm	3mm
Page	50	50	51	51	52	52



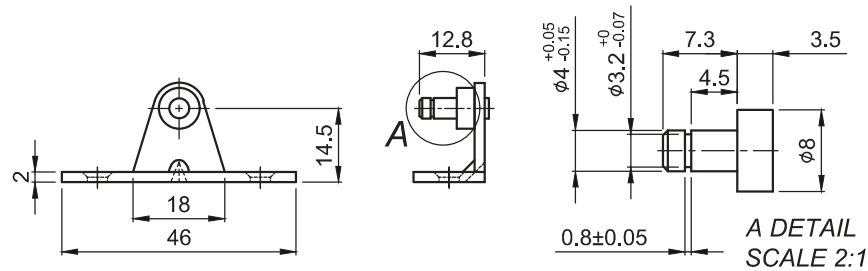
Model No.	BKTS-13	BKTS-32	Stud	Stud
	Bolt ϕ 8mm	Ball ϕ 10mm		
Thickness	2.5mm	2mm		
Page	53	53	54	55

STAINLESS STEEL BRACKET



E-Clamping ring

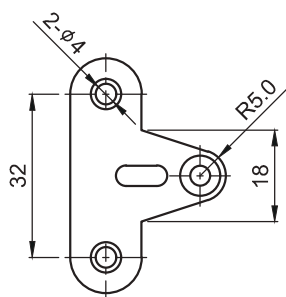
Including : E-Clamping ring (3mm)



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

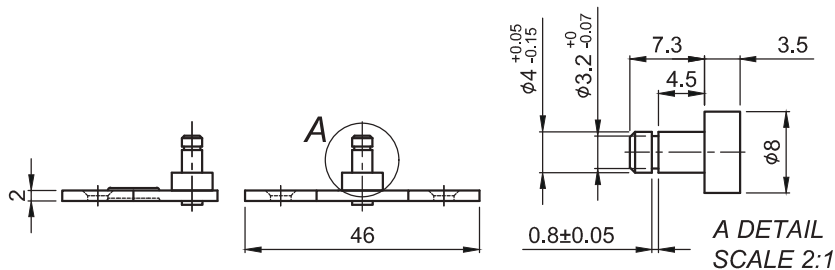
Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-06D SUS304	SUS 303	SUS 304	Vibratory Grinding



E-Clamping ring

Including : E-Clamping ring (3mm)



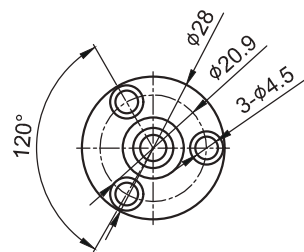
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-08D SUS304	SUS 303	SUS 304	Vibratory Grinding

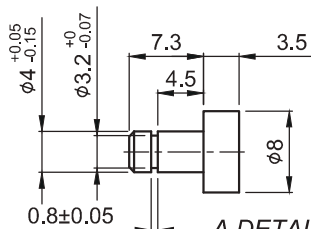
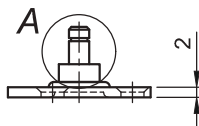
The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

STAINLESS STEEL BRACKET



E-Clamping ring

Including : E-Clamping ring (3mm)

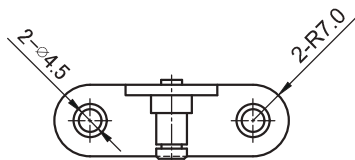


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SCALE 2:1

- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

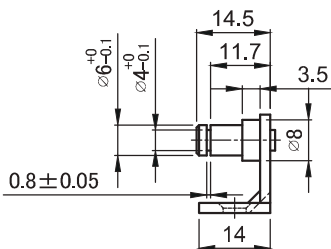
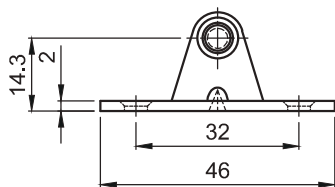
Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-09D SUS304	SUS 303	SUS 304	Vibratory Grinding



E-Clamping ring

Including : E-Clamping ring (4mm)



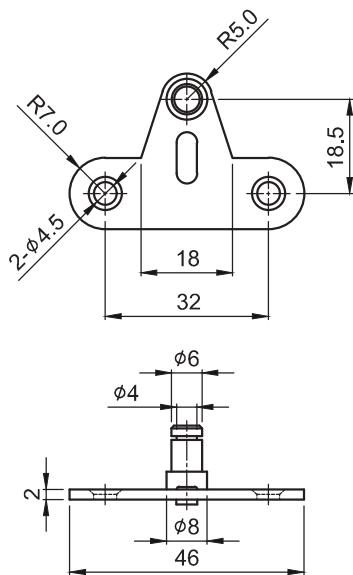
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-16 SUS304	SUS 303	SUS 304	Vibratory Grinding

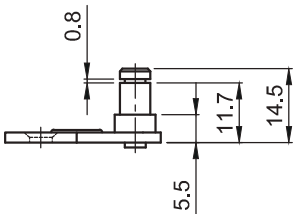
The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

STAINLESS STEEL BRACKET



E-Clamping ring

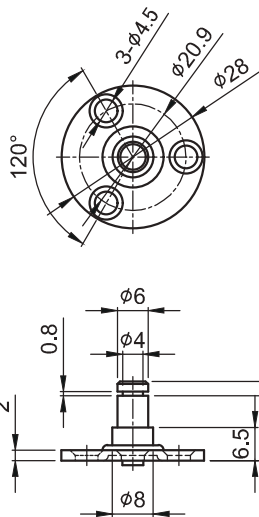
Including : E-Clamping ring (4mm)



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-18 SUS304	SUS 303	SUS 304	Vibratory Grinding



E-Clamping ring

Including : E-Clamping ring (4mm)



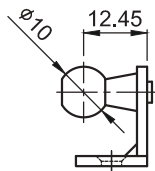
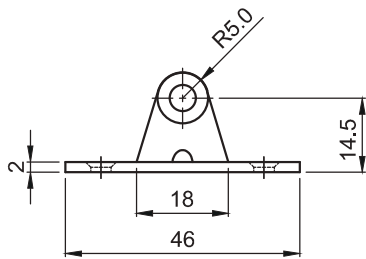
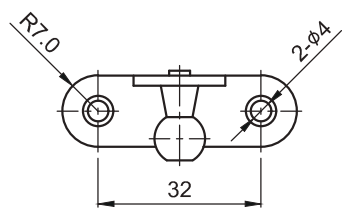
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-19A SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

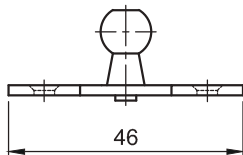
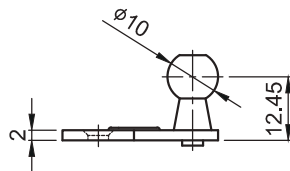
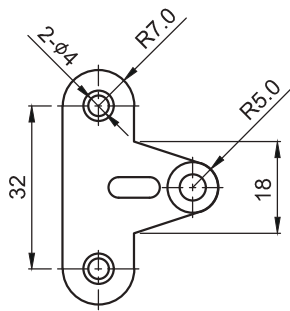
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-06 SUS304	SUS 303	SUS 304	Vibratory Grinding



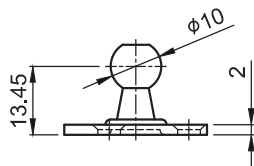
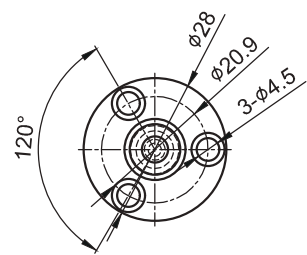
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-08 SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

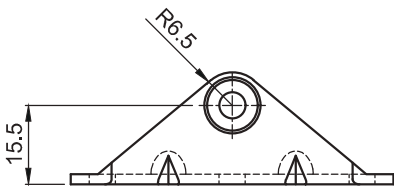
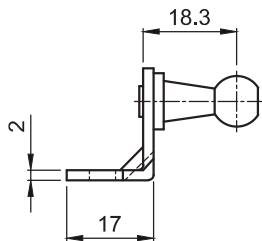
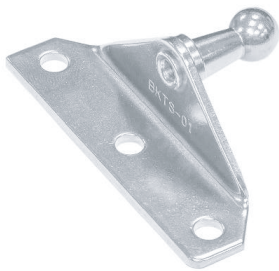
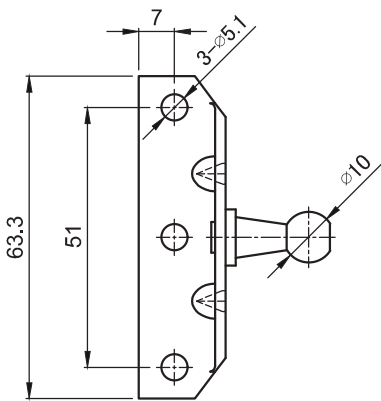
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-09A SUS304	SUS 303	SUS 304	Vibratory Grinding



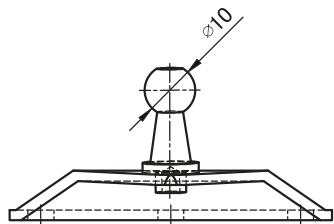
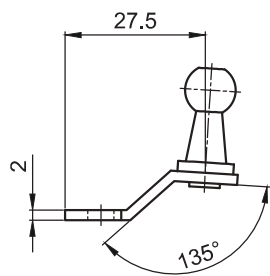
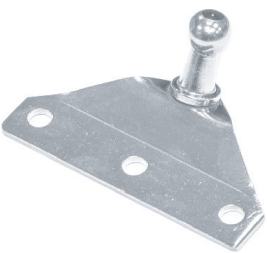
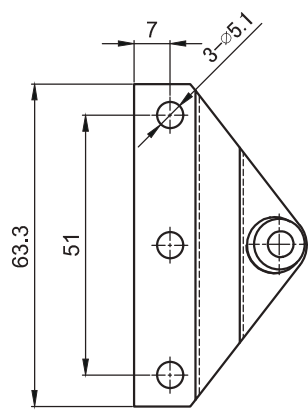
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-01 SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

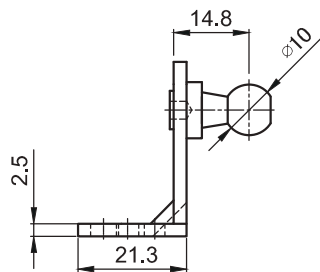
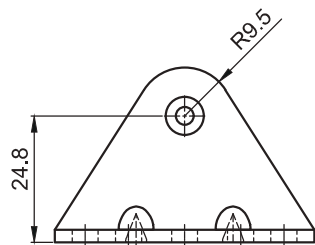
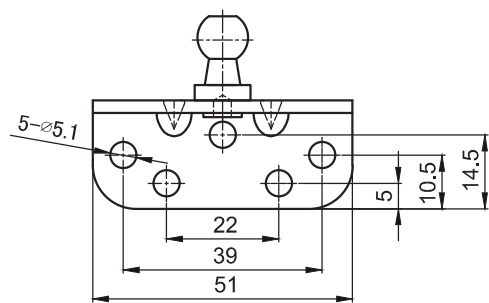
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-02 SUS304	SUS 303	SUS 304	Vibratory Grinding



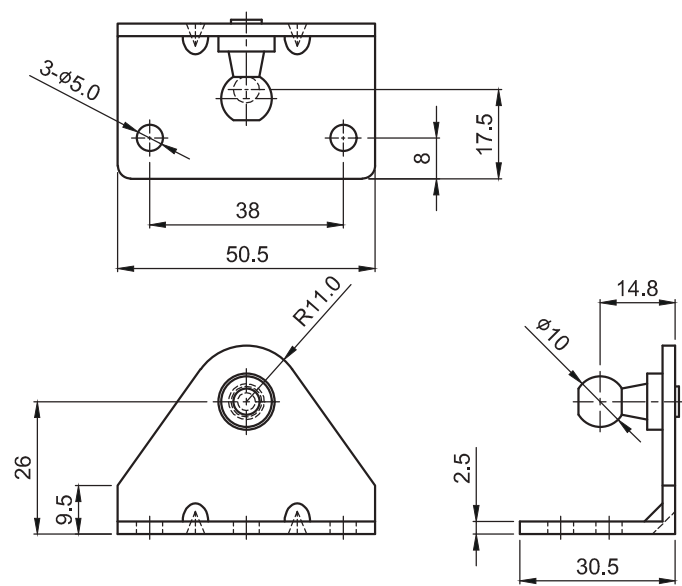
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-03 SUS304	SUS 303	SUS 304	Vibratory Grinding

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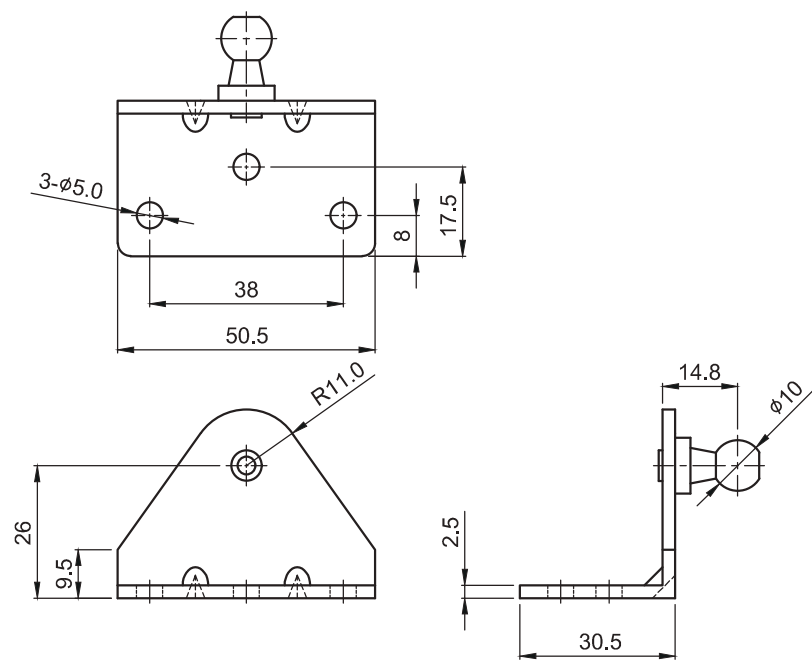
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-04-I SUS304	SUS 303	SUS 304	Vibratory Grinding



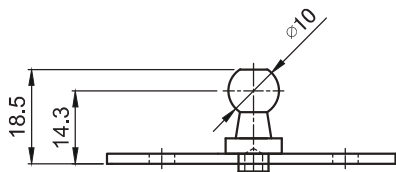
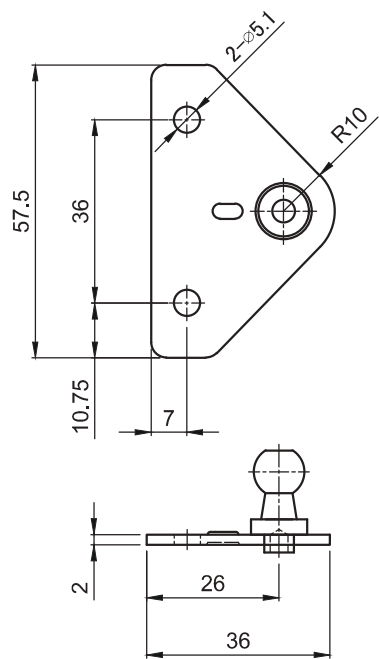
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-04-O SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

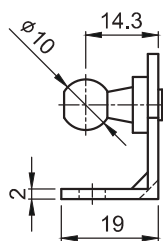
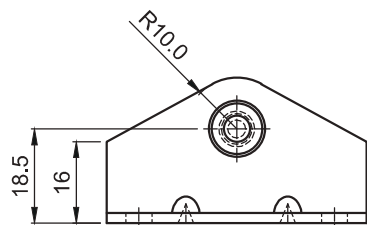
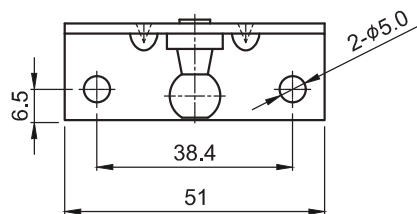
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-05 SUS304	SUS 303	SUS 304	Vibratory Grinding



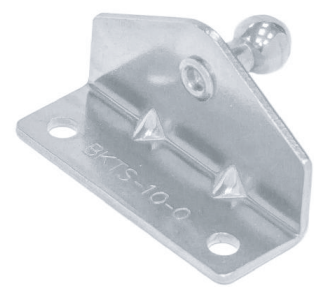
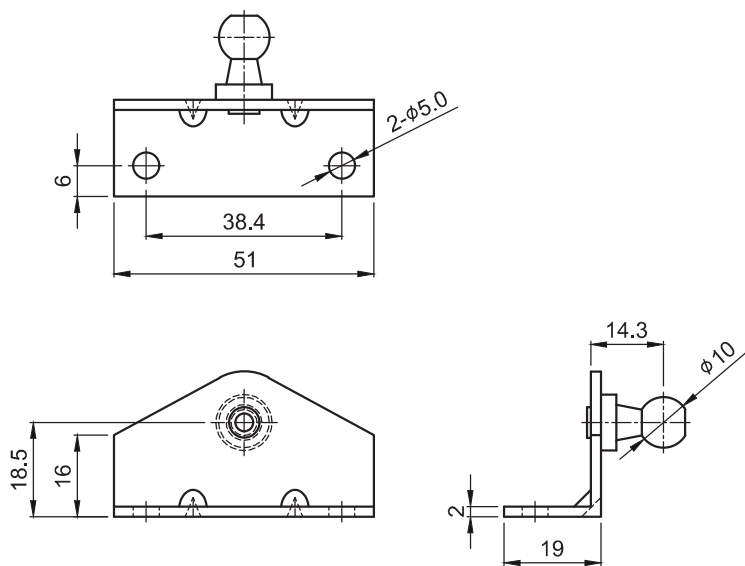
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-10-I SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

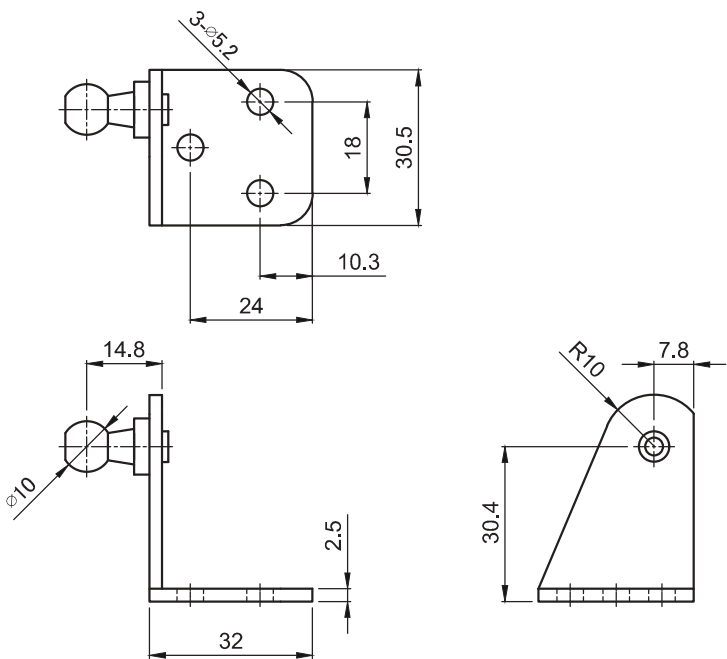
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-10-O SUS304	SUS 303	SUS 304	Vibratory Grinding



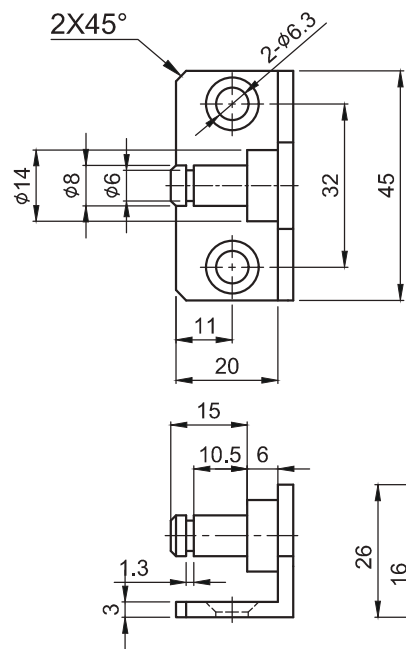
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-14-O SUS304	SUS 303	SUS 304	Vibratory Grinding

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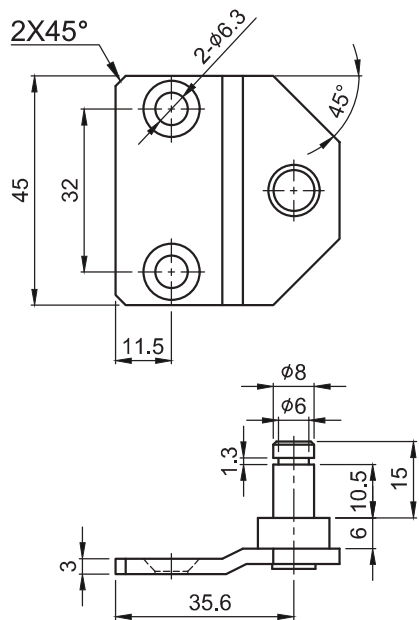
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-11 SUS304	SUS 303	SUS 304	Vibratory Grinding



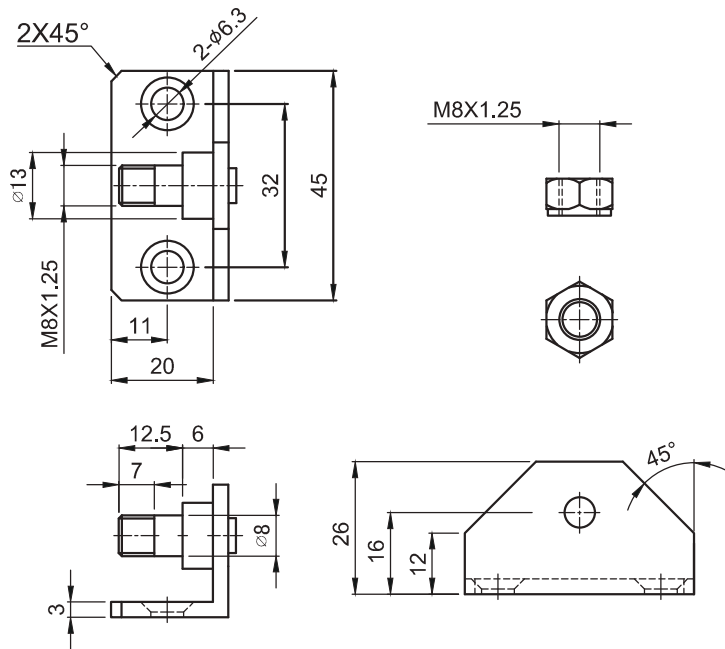
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-12 SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

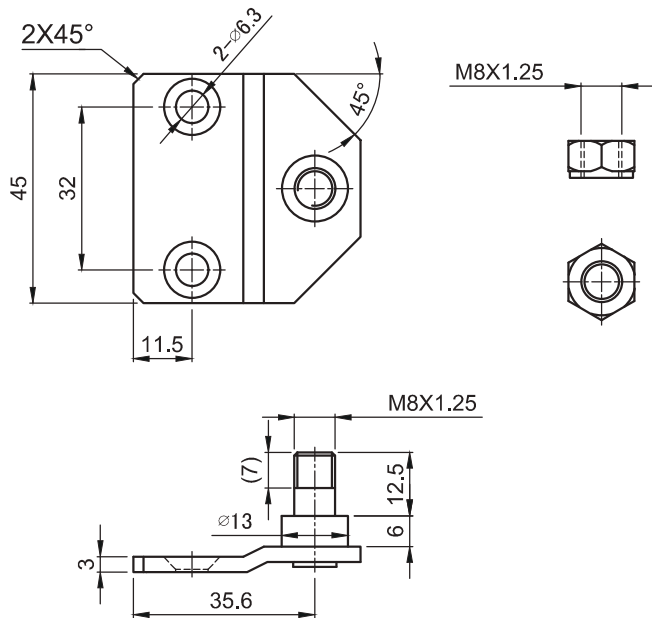
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-B11 SUS304	SUS 303	SUS 304	Vibratory Grinding



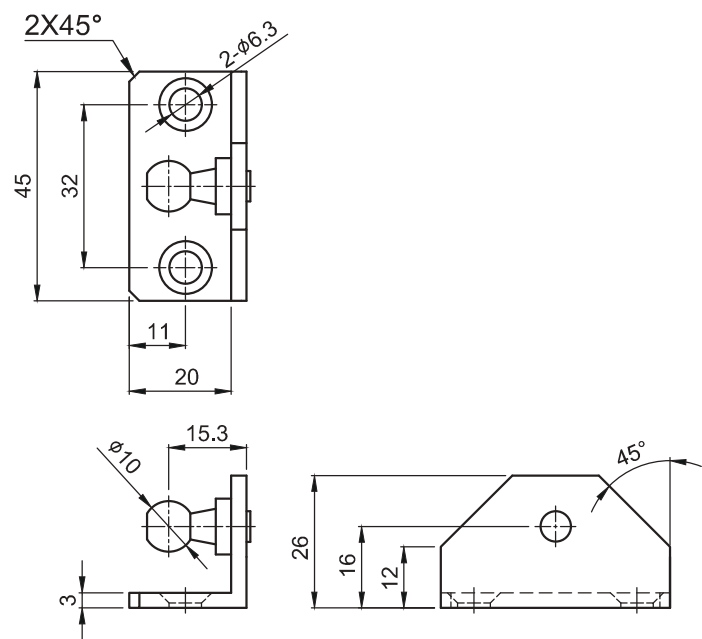
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-B12 SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

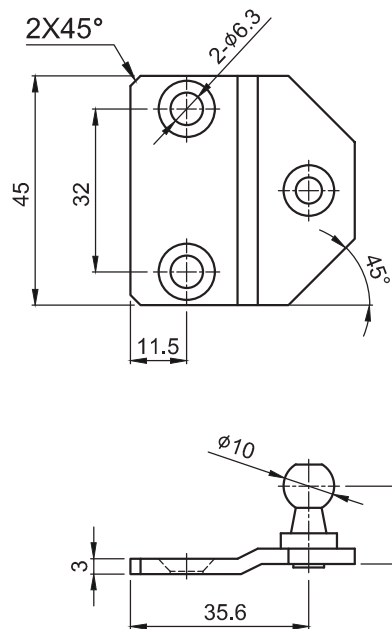
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-11A SUS304	SUS 303	SUS 304	Vibratory Grinding



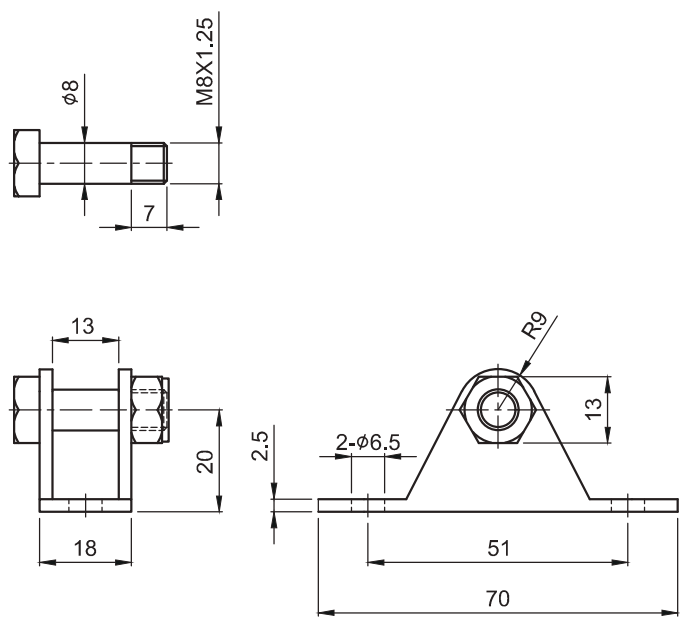
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-12A SUS304	SUS 303	SUS 304	Vibratory Grinding

The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

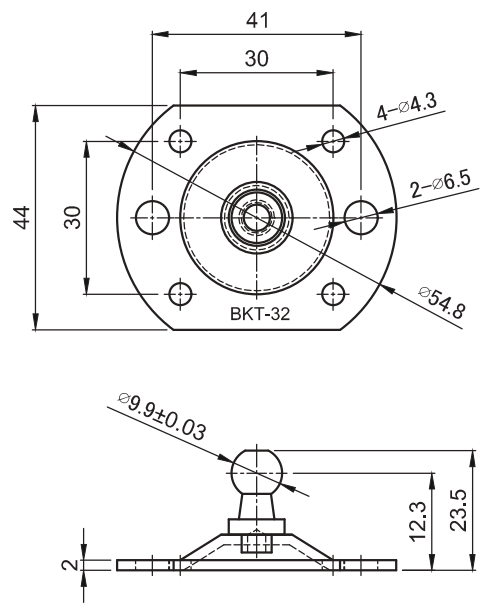
STAINLESS STEEL BRACKET



- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-13 SUS304	SUS 303	SUS 304	Vibratory Grinding



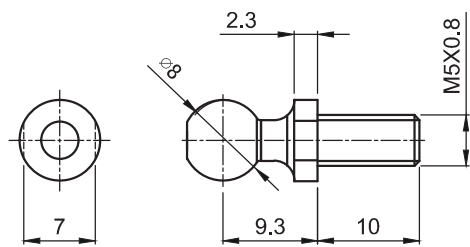
- ☒ Tensile Strength Test Report
- ☒ ROHS Test Report
- ☒ Salt Spray Test Report

Unit: mm

Model No.	Bolt Material	Plate Material	Surface Treatment
BKTS-32 SUS304	SUS 303	SUS 304	Vibratory Grinding

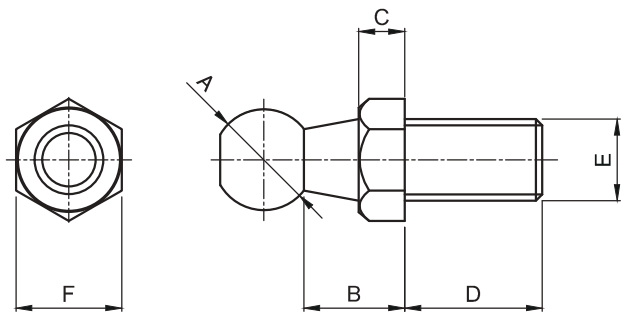
The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

STAINLESS STEEL STUD



Unit: mm

Model No.	Material	Surface Treatment
SWS7M5 SUS303	SUS 303	Vibratory Grinding

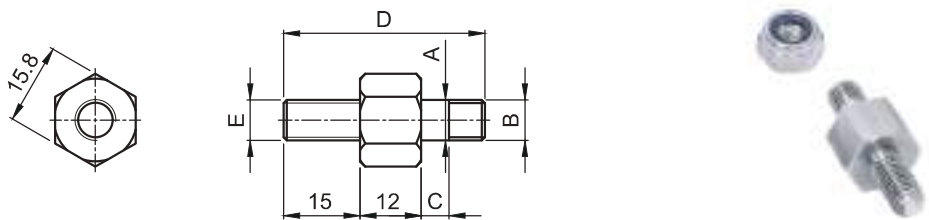


Unit: mm

Model No.	A	B	C	D	E	F	Material	Surface Treatment
SWS11 SUS303	10	14.2	4.9	12.5	M6X1.0	12	SUS303	Vibratory Grinding
SWS12 SUS303	10	14.5	4.5	13.5	M8X1.25	12	SUS303	Vibratory Grinding
SWS13 SUS303	10	12.5	3	12.5	M8X1.25	13	SUS303	Vibratory Grinding
SWS14 SUS303	13	15	4.5	12.5	M8X1.25	13	SUS303	Vibratory Grinding

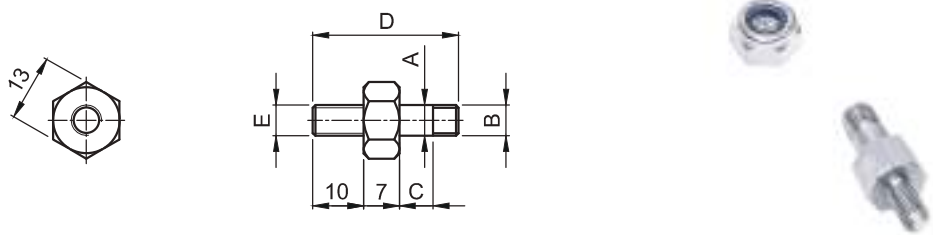
The specifications are subject to change without prior notice for improvement. We reserve all right to make modifications.

STAINLESS STEEL STUD



Unit: mm

Model No.	A	B	C	D	E	Material	Surface Treatment
SWS6411A	φ8	M8X1.25X7	5.5	39.5	M8X1.25	SUS 303	Vibratory Grinding
SWS6411B	φ8	M8X1.25X7	10.5	39.5	M8X1.25	SUS 303	Vibratory Grinding
SWS6411C	φ10	M10X1.5X9	5.5	39.5	M8X1.25	SUS 303	Vibratory Grinding
SWS6411D	φ10	M10X1.5X9	10.5	39.5	M8X1.25	SUS 303	Vibratory Grinding



Unit: mm

Model No.	A	B	C	D	E	Material	Surface Treatment
SWS6412A-L1	φ6	M6X1.0X5	6.6	28.6	M6X1.0	SUS 303	Vibratory Grinding
SWS6412B	φ8	M8X1.25X7	5.5	29.5	M8X1.25	SUS 303	Vibratory Grinding
SWS6412C	φ8	M8X1.25X7	10.5	34.5	M8X1.25	SUS 303	Vibratory Grinding

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GENERAL ADVICE FOR INSTALLATION

1. Gas spring is designed for a temperature range of -20 °C to + 80°C .
2. Gas spring is filled with pure nitrogen, which is an inert gas, does not burn, will not explode and is not poisonous.
3. Gas spring contents under high pressure! Do not open or heat up!
4. Gas Spring is filled with pure nitrogen & hydraulic oil and provides the motion assist. The Hydraulic Oil is used to lubricate gas spring inner parts and has the damper function. Some slight hydraulic oil appeared on the gas spring rod is a normal phenomenon.
5. Avoid askew installation, sloping or lateral and side force which may damage gas spring and shorten the lifetime.
6. It is recommended to install with the piston rod downwards. This position ensures the best damping effect.
7. The gas spring should not be exposed to rain or installed in wet and dusty areas.
8. No Foreigner materials such as paint, oil should be attached to the gas spring.And the piston rod should be protected against shocks, scratches and dirty.
9. Avoid the piston rod thread destroy the sealing system, do not dismantle the connecting part and compress the gas spring beyond the max stroke length.
10. Recommend to reserve 5~10mm space on stroke when full compressed gas spring to avoid impact.
11. Gas spring must not be loaded with traction force when it full extend. The high tension load beyond limit may damage the gas spring.
12. Recommend to rotate the piston rod only for gas spring position but not frequently which may destroy the sealing system.
13. Recommend installation after building or machinery equipment finished to ensure the clean of gas spring and lifetime.
14. Recommend to assemble the gas spring with additional locking mechanisms to avoid the danger caused by force majeure element.
15. After installation finished, do not use gas spring as the grip to avoid break or deform gas spring.
16. Stop use when gas spring break down and consult us immediately.Do not dismantle or incinerate gas spring.
17. If not using Supersen standard size, and you need special request, you can select your best dimensions yourself within the mentioned limits. If very high demands are placed on durability and stability. Please avoid the combination of (small diameter+ long stroke+ high force.)
18. Please advise us the environment of usage and conditions as possible if there is no experience on gas spring using or design on mechanism.
19. Recommend not to store gas spring longer than 6 months. There may be sticking effect the first time you compress gas spring, which may require a higher force than the nominal force.
20. Force tolerance between + 40N /- 20N or $\pm 5\%\sim 7\%$ of nominal force. Physically,the actual force of gas spring depends on the temperature, for each 10 °C change about 3.5%.
21. Take security measures before dispose the gas spring and use 2mm~3mm diameter drill to cut from the bottom about 20mm~30mm hole. Dispose the gas spring after the inner gas entirely releasing and obey local environmental regulation.

[illegible]