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XF Gas Spring

**Quality Product can only originate
from quality components**

XF Product List

Series	Type	Description
<i>Y-series</i> - Normal Gas Spring	Y0	Standard Gas Spring
	Y1	Normal Gas Spring with Grooved-Tube Design / Dynamic Damping
	Y2	End-Lock at Fully Compression Position with an Internal Locking Mechanism
	Y3	End-Lock at Fully Extension Position with an Internal Locking Mechanism
	Y4	End-Lock at Fully Extension Position with a Tilted-tube Mechanism
	Y5	Two Piston Rods Gas Spring
	YS	Stainless Steel Gas Spring (SUS 304)
	YF	High Friction Gas Spring
<i>K-series</i> - Lockable Gas Spring	K0	Spring Lock
	K1	Rigid Lock in Extension Direction
	K2	Rigid Lock in Compression Direction
	K3	Rigid Lock in both Compression/Extension Directions
	K4	Rigid Lock in Compression Direction (w/o floating piston)
	KD2	Rigid Lock in Compression Direction (Twin tubes)
	KS	Stainless Steel Lockable Gas Spring (SUS 304)
<i>KL-series</i> - Lockable Traction Gas Spring	KL0	Single Tube Design-Spring Lock
	KL1	Single Tube Design-Rigid Lock
	KL2	Twin-Tube Design-Spring Lock
	KL3	Twin-Tube Design-Rigid Lock
<i>L-series</i> - Traction Gas Spring	L0	Single Tube Design
	L1	Twin-Tube Design
	LS	Stainless Steel Traction Gas Spring
<i>Z-series</i> - Damper	Z0	Damping in Extension Direction Only
	Z1	Damping in Compression Direction Only
	Z2	Damping in Both Extension/Compression Directions
	Z3	Damping Speed is Adjustable
<i>B-series</i> - Bike Front Fork Damper	BK1	Lockable Fixed Damping (Bowden wire control)
	BK2	Lockable Fixed Damping (Lever switch)
	BK3	Lockable Adjustable Damping
	BY1	Non-Lockable Fixed Damping
<i>LEG-Series</i> - Adjustable Table Column	LEG1	Adjustable Round Table Column with Lockable Gas Spring Inside

All Products

Y-series



K-series



L-series



Z-series



B-series



LEG-series



Y-series

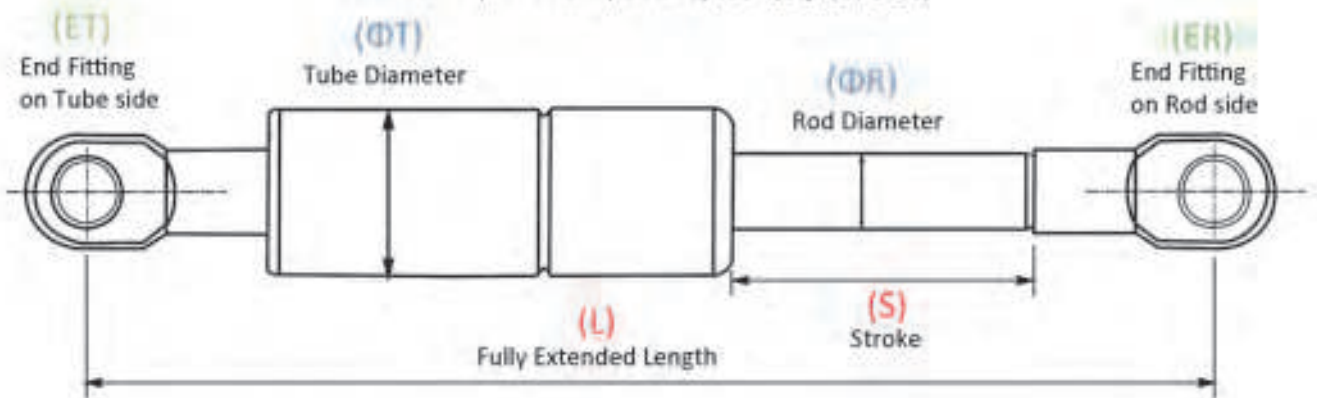
-Normal Gas Spring



TYPE- Φ T/ Φ R-L/S-ET/ER-F1

Order Example: Y0- Φ 18/ Φ 8-500/200-Q24/Q24-500N

F1: Force(N)



Type	Φ T Tube Diameter (mm)	Φ R Piston Rod Diameter (mm)	Min. Tube length (mm)	Max. F1-force (N)
Y0/Y1	Φ 12	Φ 4	Stroke+30	100 N
Y0/Y1/YF	Φ 15	Φ 6	Stroke+30	400 N
Y0/Y1/Y2/Y3/YS	Φ 18	Φ 8	Stroke+44	700 N
Y0/Y1/Y2/Y3/Y4/Y5/YS	Φ 22	Φ 10	Stroke+45	1200 N
Y0/Y1	Φ 28	Φ 14	Stroke+60	2500 N
Y0	Φ 40	Φ 20	Stroke+90	4500 N

*Other tube/piston rod combinations are welcome to inquire

Y-series

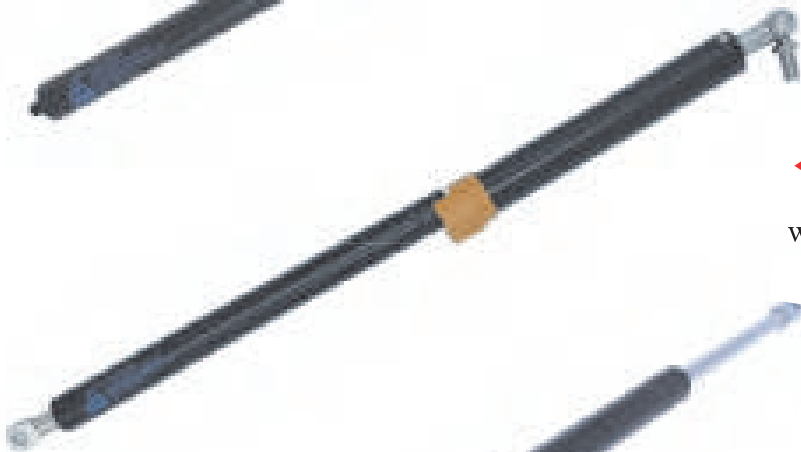
-Normal Gas Spring



◀ **Y1** - Normal Gas Spring with Grooved-Tube Design
/ Dynamic Damping



◀ **Y2** - End-Lock at Fully Compression
Position with an Internal Locking
Mechanism



◀ **Y4** - End-Lock at Fully Extension Position
with a Tilted-tube Mechanism



◀ **Y5** - Two Piston Rods Gas Spring



◀ **YS** - Stainless Steel Gas Spring (SUS 304)

K-series

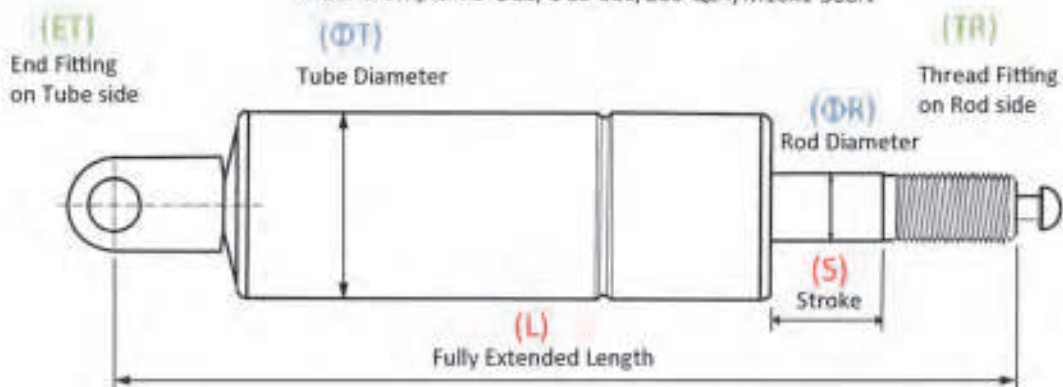
-Lockable Gas Spring



TYPE- Φ T/ Φ R-L/S-ET/TR-F1

F1: Force(N)

Order Example: K0- Φ 28/ Φ 10-500/200-Q24/M10x1-500N



Type	Φ T Tube OD (mm)	Φ R Piston Rod OD (mm)	Max. F1-force (N)	Release Pin (Standard Travel 3mm)	Quick Release pin (Travel 0.5 mm) (Cylindrical pin only)
K0/K1	Φ 18	Φ 6	300 N	Cylindrical Pin	
K0/K1	Φ 18	Φ 8	400 N	Cylindrical Pin	
K0/K1/K4	Φ 22	Φ 8	600 N	Cylindrical Pin	●
K0/K1/K2//K4/KS	Φ 22	Φ 10	1000 N	Mushroom Pin	●
K0/K1/K4/KD2	Φ 28	Φ 8	600 N (for K0/K1/K4) 400 N (for KD2)	Cylindrical Pin	●
K0/K1/K2/K3//K4/KS	Φ 28	Φ 10	1000 N	Mushroom Pin	●
K0/K1/K4	Φ 28	Φ 12	1500 N	Cylindrical Pin	

*Other tube/piston rod combinations are welcome to inquire

K-series

-Lockable Gas Spring



◀ **K0** – Spring Lock



◀ **K1** – Rigid Lock in Extension Direction



◀ **K2** – Rigid Lock in Compression Direction



◀ **K3** – Rigid Lock In both Compression and Extension Directions



◀ **KS** – Stainless Steel Lockable Gas Spring



B-series

-Bike Front Fork Damper



Type	Ø T Tube Diameter (mm)	Ø R Rod Diameter (mm)	Feature	Remark
BK1	Ø 20	Ø 10	Lockable Fixed damping (Bowden wire control)	BK1: Metal Tube BK1A :Aluminum Tube
BK2	Ø 20	Ø 10	Lockable Fixed damping (Lever switch)	BK2: Metal Tube BK2A:Aluminum Tube
BK3A	Ø 20	Ø 10	Lockable Adjustable damping	BK3: Metal Tube BK3A:Aluminum Tube
BY1	Ø 20	Ø 10	Non-Lockable Fixed damping	

*Other tube/piston rod combinations are welcome to inquire



B-series

-Bike Front Fork Damper



◀ **BK1** – Lockable Fixed Damping
(Bowden wire control)



◀ **BK2** – Lockable Fixed Damping
(Lever switch)



◀ **BK3A** – Lockable Adjustable Damping

Bike Seat Post Lockable Gas Spring ▶

(Refer to K-Series)



Rigid
Locking
Gas
Spring
Inside



LEG-series

- Height-Adjustable Table Column



Features:

1. Aluminum Columns, light weight with strong stiffness.
2. With high accuracy Roller Bearing inside, makes the columns move smoothly and almost no clearance.
3. With Rolls-Royce level Rigid-Locking gas spring inside, no any elastic effect on your table.
4. Single-tube or Twin-tube lockable gas spring is optional, depending on your lowest position and stroke requirement.

Specifications:

Color	Black/Gray/White
Diameter	Refer to picture above
High/Low Position	Standard : 1100/700 ; 1000/600 (mm) Or on request
Force	Standard : 80N/100N/120N Or on request
Activation	Bowden wire Release system (L=520mm) Override gas spring is optional
Base Fitting	Standard : ϕ 70 flat bottom Cone Adaptor is optional

LEG-series

- Height-Adjustable Table Column



◀ Long Stroke Rigid Lockable Gas Spring with Boden Wire

