

Airplane seat motion control system

Product series introduction – TT-HYL-FLX-01



Airplane seat angle control component – hydro lock is one kind of **Lockable Gas Spring** with a lightweight and compactable design. It controls seat backrest and leg rest at variable positioning with elastic or rigid locking in the tension or compression direction. TT-HYL-FLX-01 is an elastic lock, which provides passenger a comfortable and safe adjustment of sitting and reclining experiences.

Application

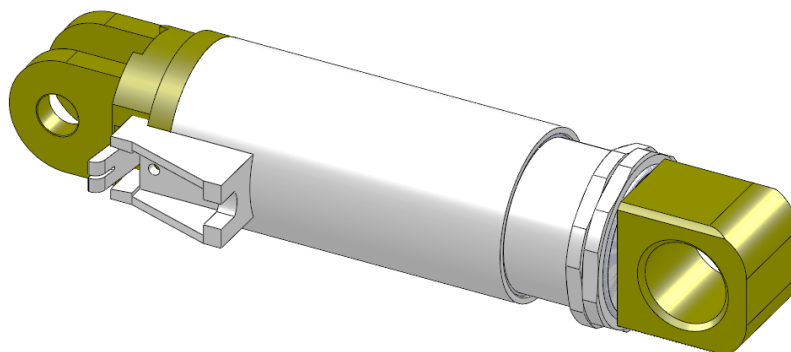
- Backrest control of passenger and pilot seats
- Leg rest for business and first-class seats

Reason of choose TT-HYL-FLX-01

- Easy and convenient to adjust airplane seat backrest and leg rest
- Firmly secured variable positioning with elastic locking
- Flight crew can force seat backrest and leg rest back to original positions
- Optimized weight compensation during upping, lowering
- Lightweight and compactable design
- Easy to install and maintenance-free for high frequency usage and long service time
- Flat spring characteristic curve for low force increase, even with high forces or large strokes.
- Linear, progressive, or degressive spring characteristic curve
- Diverse selection of sizes, force, and end fittings
- High compatible with different ergonomic push-button system
- Three types of release button and wide range of levers can be selected with customized cables
- High-quality products manufactured in compliance with the international standard ISO/TS 16949.

Locking type	Elastic
Locking force (N)	800
Extension forces (N)	400
Release force (N)	≤50
Installation length (mm)	305
Protection cover diameter (mm)	28.5
Tube diameter (mm)	22 to 26.5
Stroke (mm)	1-27
Release travel, normal (mm)	≤1
Permissible operating temperature (°C)	-15 ~ 60
Permissible storage temperature (°C)	-30 ~ 80

Product series introduction – TT-HYL-RGD-01



Airplane seat angle control component – hydro lock is one kind of **Lockable Gas Spring** with a compactable design. It controls seat backrest and leg rest at variable positioning with elastic or rigid locking in the tension or compression direction. TT-HYL-RGD-01 is a rigid lock, which provides passenger a comfortable and safe adjustment of sitting and reclining experiences.

Application

- Backrest control of passenger and pilot seats
- Leg rest for business and first-class seats

Reason of choose TT-HYL-RGD-01

- Easy and convenient to adjust airplane seat backrest and leg rest
- Firmly secured variable positioning with rigid locking
- Flight crew can force seat backrest original positions
- Optimized weight compensation during upping, lowering
- Compactable design
- Easy to install and maintenance-free for high frequency usage and long service time
- Flat spring characteristic curve for low force increase, even with high forces or large strokes.
- Linear, progressive, or degressive spring characteristic curve
- Diverse selection of sizes, force, and end fittings
- High compatible with different ergonomic push-button system
- Three types of release button and wide range of levers can be selected with customized cables
- High-quality products manufactured in compliance with the international standard ISO/TS 16949.

Locking type	Rigid
Locking force (N)	4000
Extension forces (N)	700
Release force (N)	≤50
Installation length (mm)	123
Protection cover diameter (mm)	31.5
Tube diameter (mm)	28
Stroke (mm)	1-20
Release travel, normal (mm)	≤1
Permissible operating temperature (°C)	-15 ~ 60
Permissible storage temperature (°C)	-30 ~ 80

Product series introduction – TT-HYL-RGD-02



Airplane seat angle control component – hydro lock is one kind of **Lockable Gas Spring** with a compactable design. It controls seat backrest and leg rest at variable positioning with elastic or rigid locking in the tension or compression direction. TT-HYL-RGD-02 is a rigid lock, which provides passenger a comfortable and safe adjustment of sitting and reclining experiences.

Application

- Backrest control of passenger and pilot seats
- Leg rest for business and first-class seats

Reason of choose TT-HYL-RGD-02

- Easy and convenient to adjust airplane seat backrest and leg rest
- Firmly secured variable positioning with rigid locking
- Flight crew can force seat backrest original positions
- Optimized weight compensation during upping, lowering
- Compactable design
- Easy to install and maintenance-free for high frequency usage and long service time
- Flat spring characteristic curve for low force increase, even with high forces or large strokes.
- Linear, progressive, or degressive spring characteristic curve
- Diverse selection of sizes, force, and end fittings
- High compatible with different ergonomic push-button system
- Three types of release button and wide range of levers can be selected with customized cables
- High-quality products manufactured in compliance with the international standard IATF16949.

Locking type	Rigid
Locking force (N)	1200-2500
Extension forces (N)	300-600
Release force (N)	30-70
Installation length (mm)	130-180
Tube diameter (mm)	22-24.5
Stroke (mm)	1-20
Release travel, normal (mm)	<=1
Permissible operating temperature (°C)	-15 ~ 60
Permissible storage temperature (°C)	-30 ~ 80