

Titus Damper

Multi-purpose Damping Technology

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Multi-purpose Damping Technology



Force and performance consistency

Fully controllable damping curve

Efficient modular design

Cold/hot environment friendly

Areas of Application

Cabinet hardware



concealed hinges, lift-up mechanisms, drawers, pull-outs, sliding mechanisms

Home and commercial appliances



refrigerators, freezers, ovens, washing machines, dishwashers, wine coolers, commercial refrigerators, cooling vitrines, small home appliances

Sanitary equipment



waste bins, toilet seats, shower screens

Architectural



interior sliding doors, barn doors, pocket doors, wall partitions, folding doors, exterior patio sliding doors and windows, pool fence doors, panic door handles, post boxes

Automotive and aerospace



roof boxes, car compartments, armrests, storage drawers, overhead aircraft bins, drones

Health and recreation



medical beds, treatment chairs, operating tables, newborn incubators

Quick Development of Custom Solutions

Linear hydraulic damping solutions to effectively decelerate objects under forces up to 1000N and temperature range from -30°C to +150°C.

All Titus dampers can be adjusted according to damping force, stroke, characteristic, type of self-closing mechanism, and damper connection.



Cold/hot environment friendly

- Efficient performance across a temperature range from -30°C to +150°C
- Low temperature sensitivity



Fully controllable damping curve

- Ability to define forces and their distribution precisely over the whole damping curve
- Fine-tuning of performance to specific applications



Force and performance consistency

- Consistent damping at any closing speed
- Reliable performance during the whole life cycle of the application



Dynamic damping response to closing speed

- ART - Adaptive Response Technology adjusts damper performance based on door weight and closing speed
- Damping with soft closing and no rebound; opening force is low

The Scope

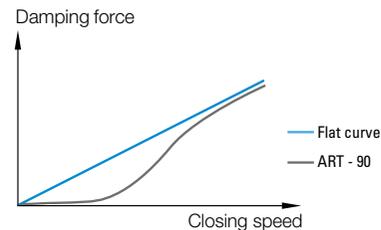
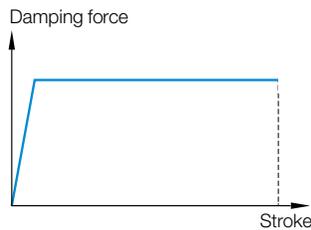
S Series Dampers with short stroke



L Series Dampers with long stroke



Usage in:	objects with rotational or linear motion	objects with linear motion
Operating temperature:	from -30°C to +150°C	from -30°C to +85°C
Diameter of body:	8 - 13mm	8 - 9mm
Length of stroke:	6 - 16mm	35 - 100mm
Damping force:	up to 1000N	up to 25N
Damping characteristic:	flat	ART - Adaptive Response Technology



Damping Action Options

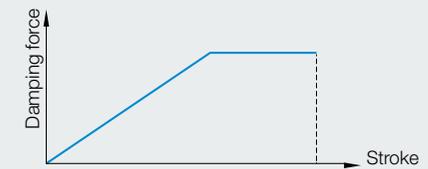
Fully controllable damping curve enables precise fine-tuning to customer application and needs.

Flat damping curve



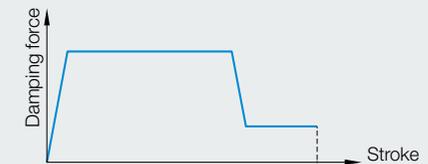
Uniform damping at a defined closing speed

Ramp damping curve



Progressive damping at a defined closing speed

Flat with final Release damping curve



Uniform damping at defined closing speed, with reduced force or neraly no force near the end position

MultiStage damping curve



Controlled multi-stage closing: initial low force prevents re-bounce, followed by higher force for efficient deceleration

Cabinet hardware



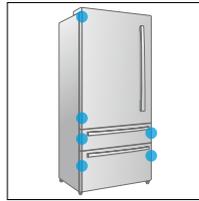
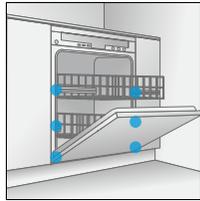
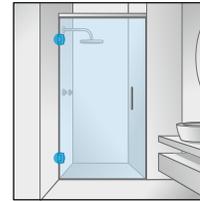
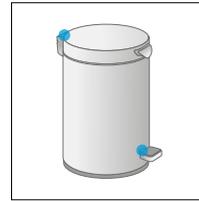
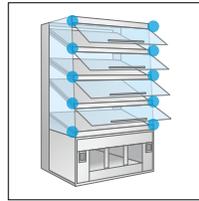
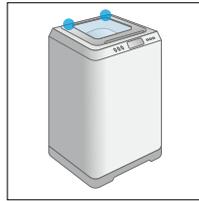
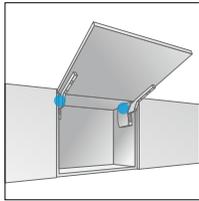
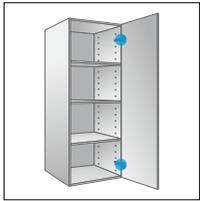
Home and commercial appliances



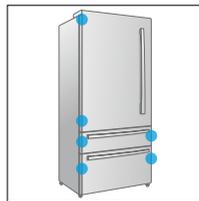
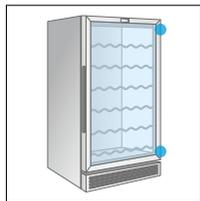
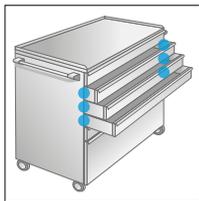
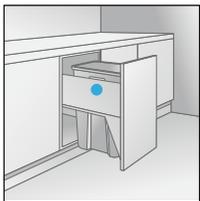
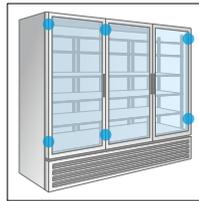
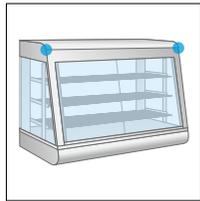
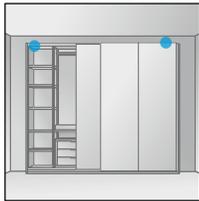
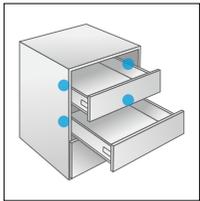
Sanitary equipment



S Series dampers



L Series dampers



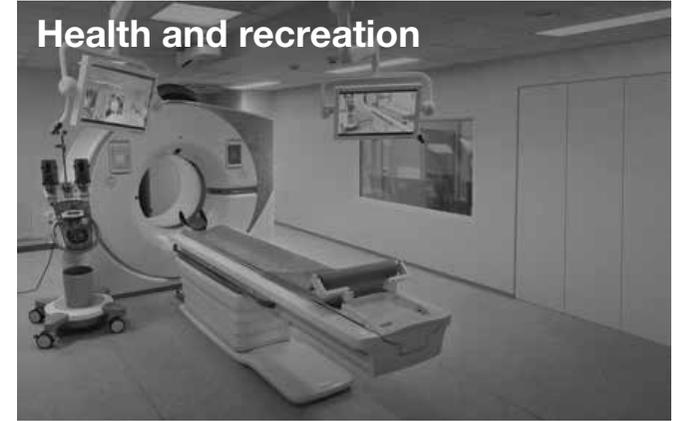
Architectural



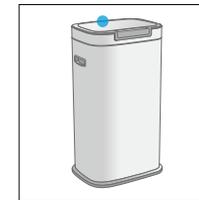
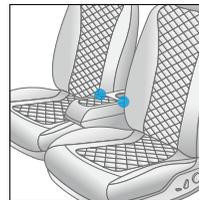
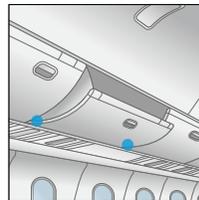
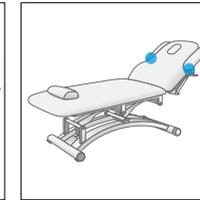
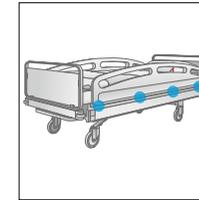
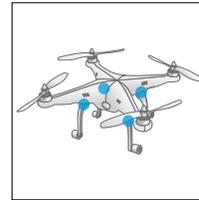
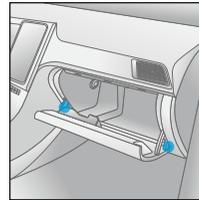
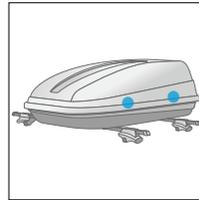
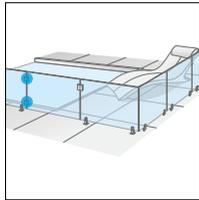
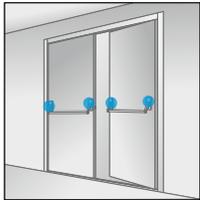
Automotive and aerospace



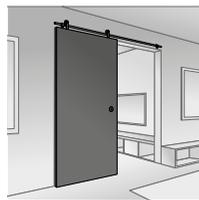
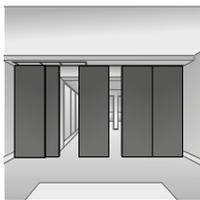
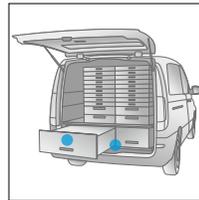
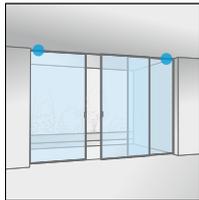
Health and recreation



S Series dampers

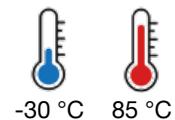


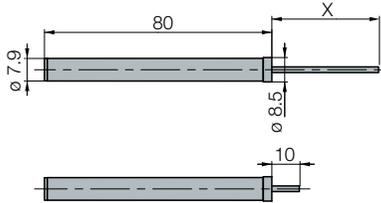
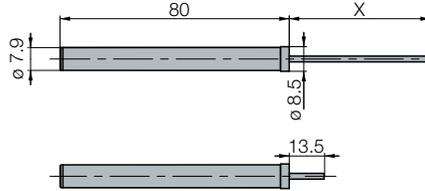
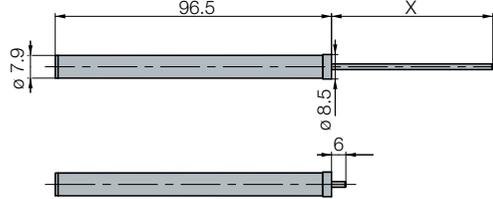
L Series dampers



Technical Details

L Series damper



Dimensions		Damping force (N)*	Max. stroke X (mm)
L Series 8-35  		from 3.8 to 7	35
L Series 8-45  		from 3.8 to 15	45
L Series 8-50  		from 5 to 15	50

Body made of plastic, piston rod made of steel

*Damping force at closing speed refers to the force a damper applies to slow down an object moving at a velocity of 1000mm/min

	Dimensions	Damping force (N)*	Max. stroke X (mm)
L Series 9-50		from 2 to 22.5	50
L Series 9-75		from 2 to 22.5	75
L Series 9-100		from 7.5 to 25	100

Body made of plastic, piston rod made of steel

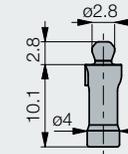
*Damping force at closing speed refers to the force a damper applies to slow down an object moving at a velocity of 1000mm/min

L Series damper

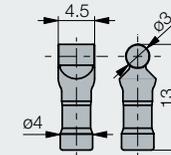
Adapters

L Series 8 & 9-50 L Series 9-75/100

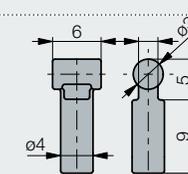
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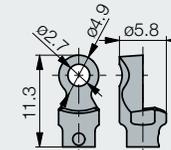
Adapter 2



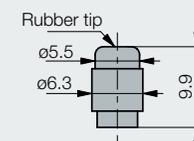
Adapter 3



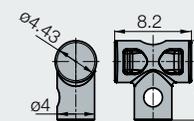
Adapter 4



Adapter 5

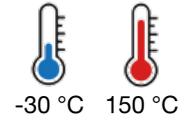


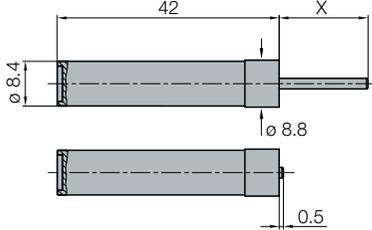
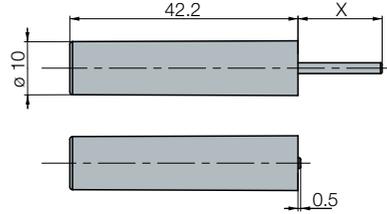
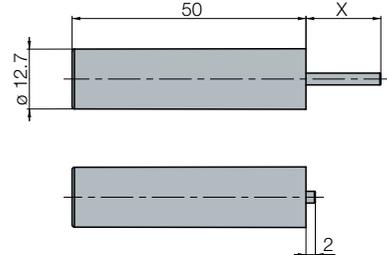
Adapter 6



Technical Details

S Series damper



Dimensions		Damping force (N)*	Max. stroke X (mm)
S Series 8  		from 5 to 60	16
S Series 10  		from 10 to 440	15
S Series 13  		from 400 to 1000	14

Body made of plastic, piston rod made of steel

*Damping force at closing speed refers to the force a damper applies to slow down an object moving at a velocity of 740mm/min

Engineered for Purpose

Titus is committed to providing its customers with products and services that improve their competitiveness, while reducing manufacturing and assembly costs.

Titus+

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