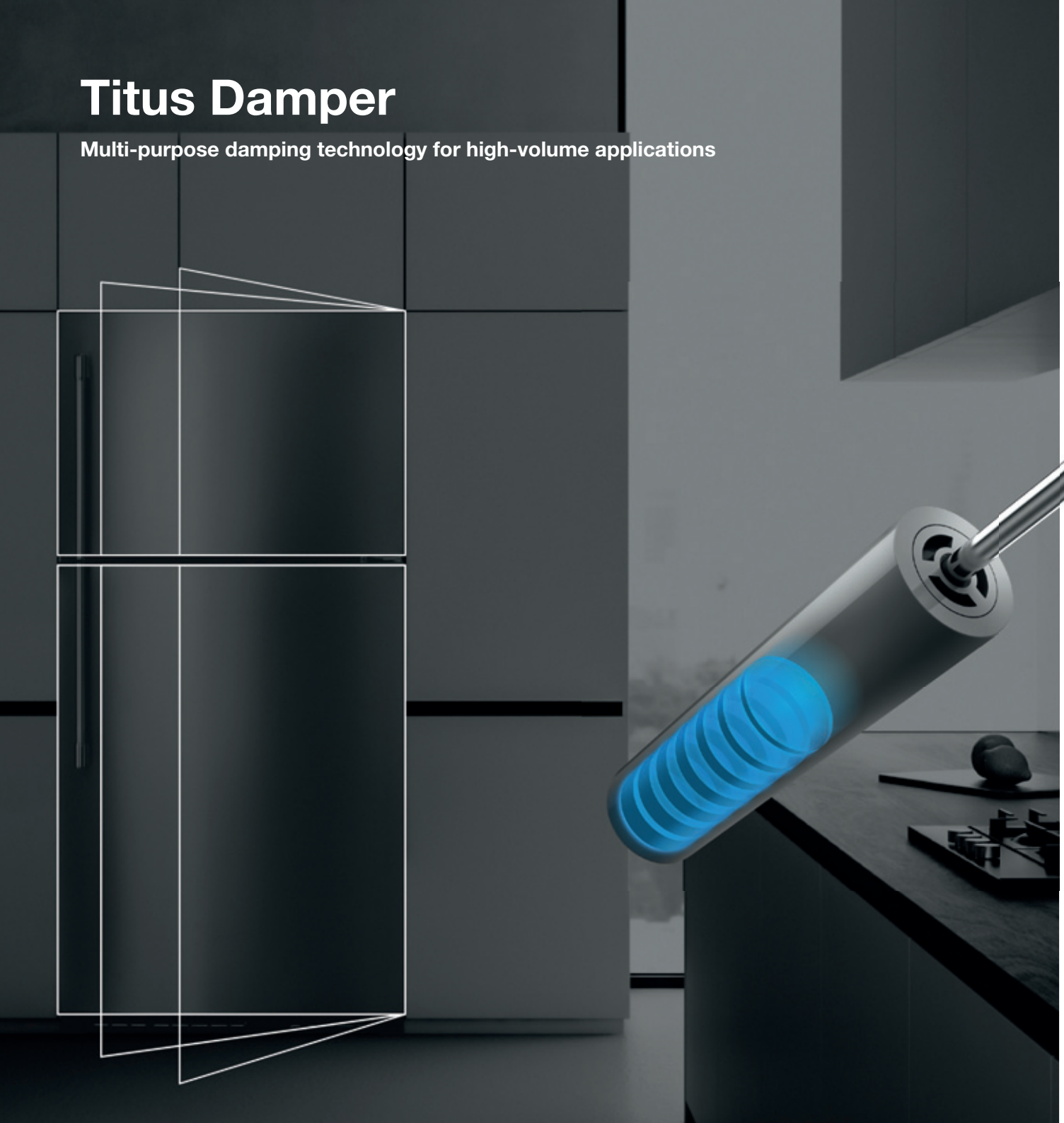
Titus Group
Product catalogue

Titus Damper

2025

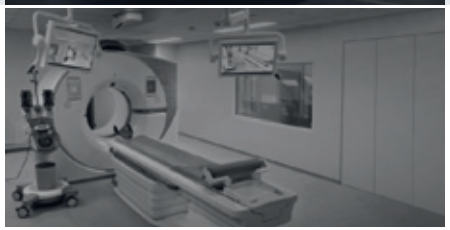
Titus Damper

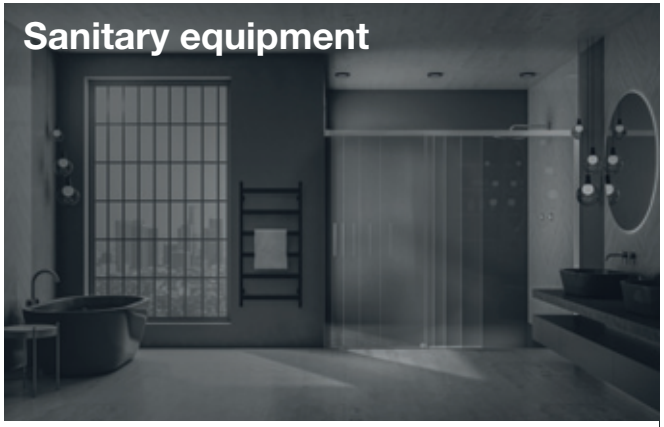
Multi-purpose damping technology for high-volume applications



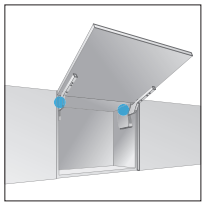
- **Cold/hot environment friendly**
- **Fully controllable damping curve**
- **Force and performance consistency**
- **ART - Adaptive Response Technology**

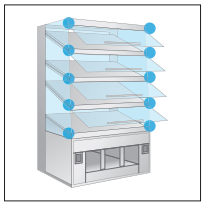
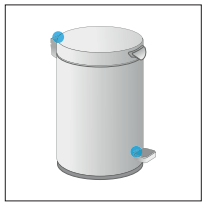
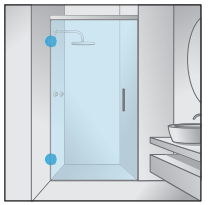
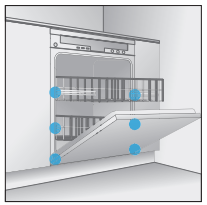
Areas of Application

Cabinet hardware		**Concealed and long lasting**
Home and commercial appliances		**Cold-hot environments resistant**
Sanitary equipment		**Humidity resistant**
Architectural		**Heavy-duty and reliable**
Automotive and aerospace		**Consistent quality and high performance**
Health and recreation		**Hygiene-compliant and chemical-resistant**

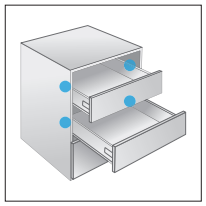
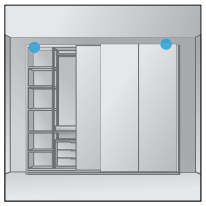
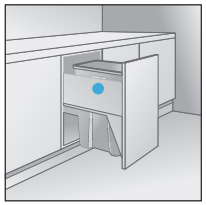
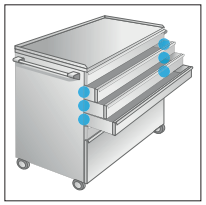
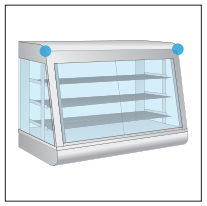
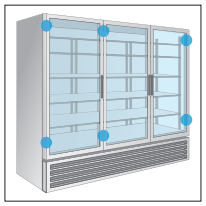
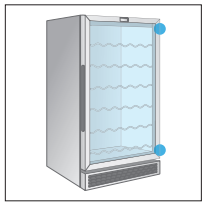


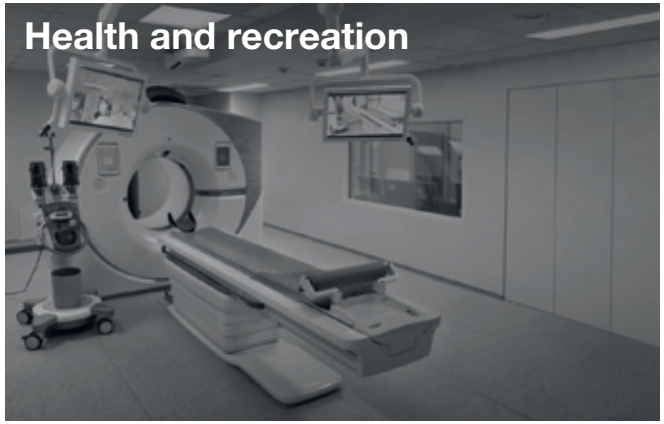
S Series dampers

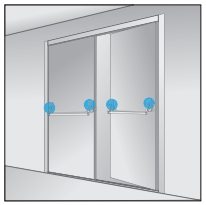
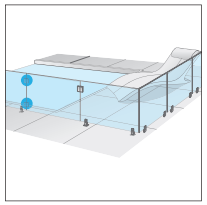






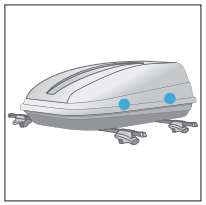
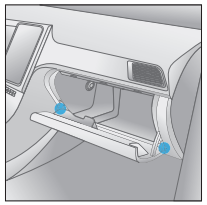
L Series dampers

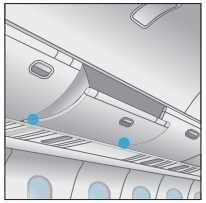
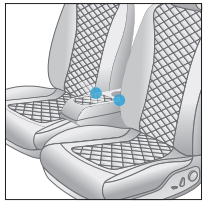
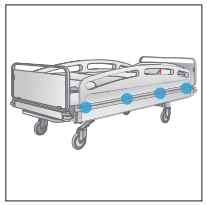
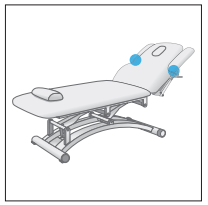
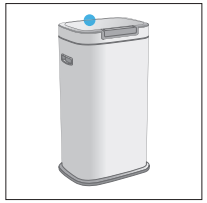










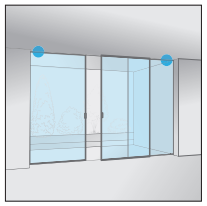
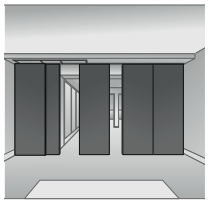
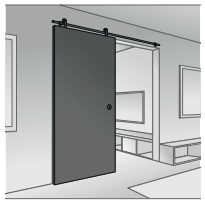
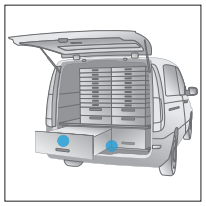
S Series dampers

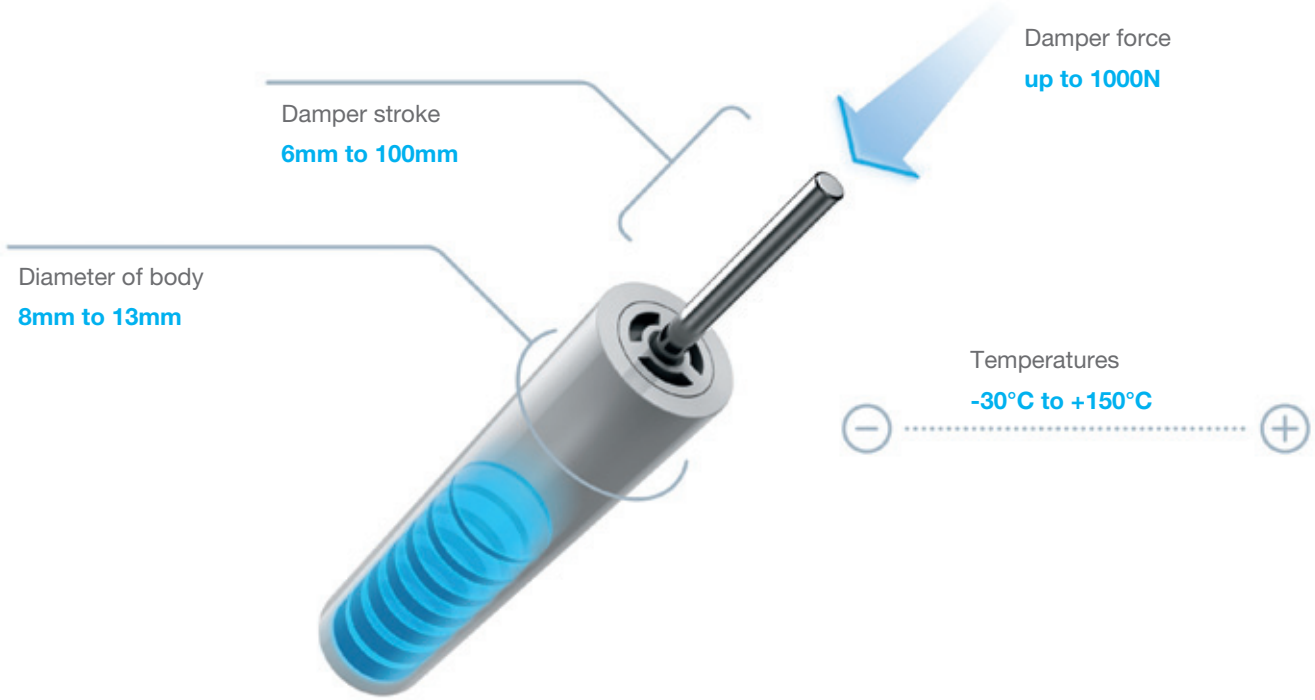
L Series dampers

Quick Development of Custom Solutions

Titus Dampers are linear hydraulic damping solutions that effectively decelerate objects under forces up to 1000N and temperature range from -30°C to +150°C.

Efficient modular damper's design enables quick customisation 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

Fully controllable damping curve

- Precise definition of forces over the whole damping curve
- Fine-tuning of performance to specific applications

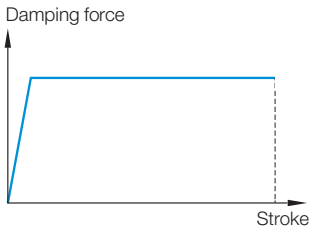
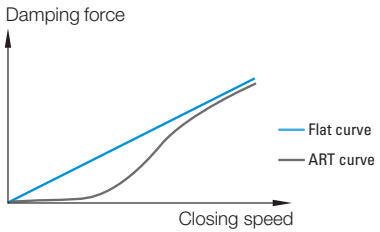
Force and performance consistency

- Reliable performance during the whole life cycle of the application
- Increases the application lifetime

ART – Adaptive Response Technology

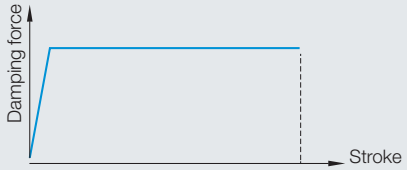
- Dynamic damping response adjusts damper performance based on door weight and closing speed and prevents rebound
- Effortless opening with low force assured

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
		

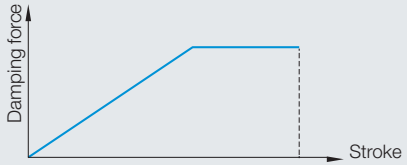
Fine tuning options for damping characteristics

Flat damping curve



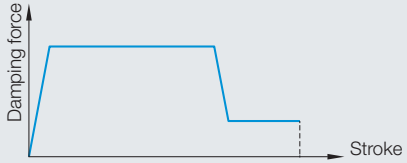
Uniform damping at a defined closing speed

Ramp damping curve



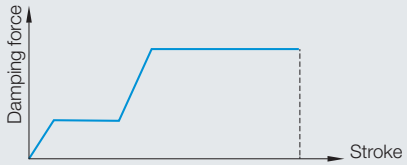
Progressive damping at a defined closing speed

Flat with final Release damping curve



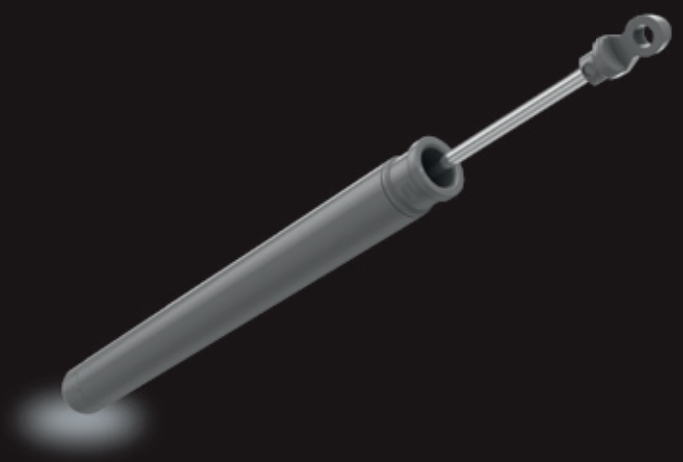
Uniform damping at defined closing speed, with reduced force or neraly no force near the end position

MultiStage damping curve



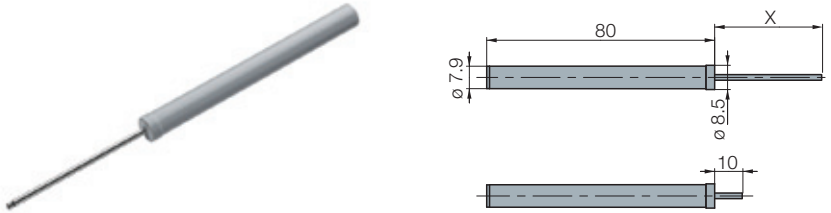
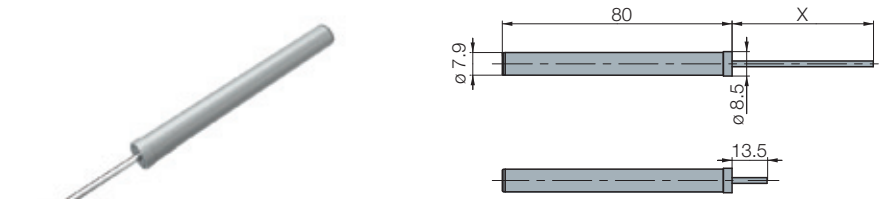
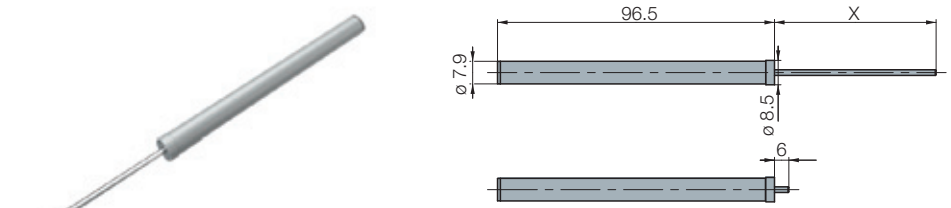
Controlled multi-stage closing:
initial low force prevents re-bounce, followed by higher force for efficient deceleration

Technical Details



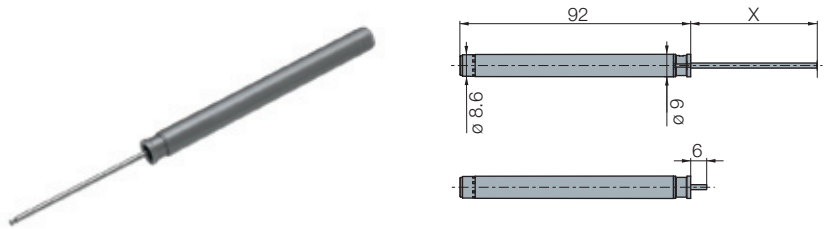
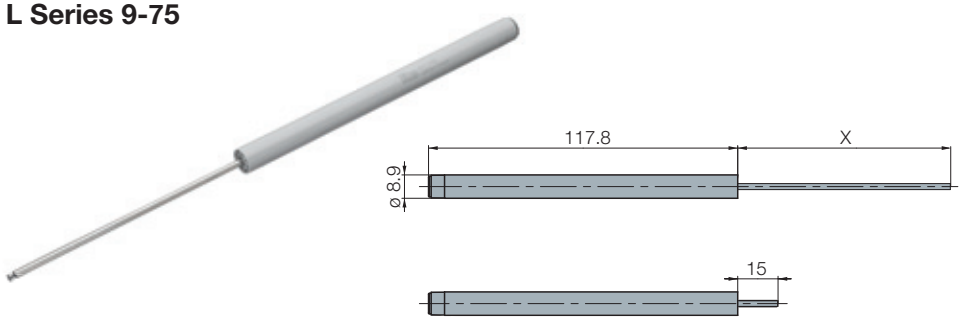
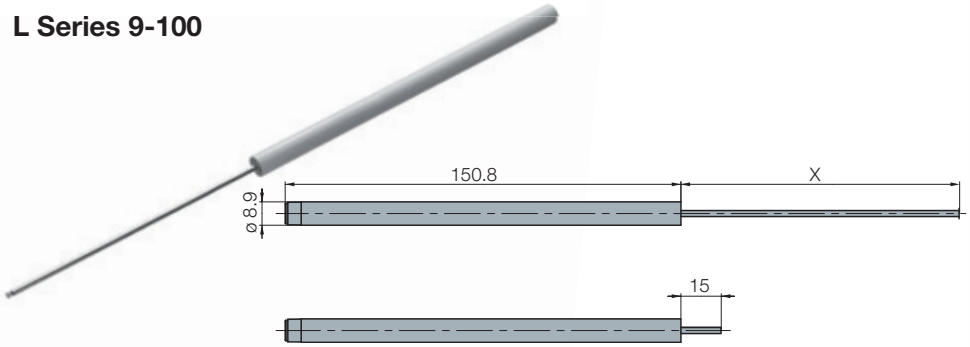
L Series damper

-30 °C 85 °C

Dimensions	*Damping force at v=1000mm/min	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

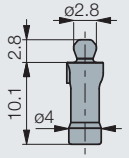
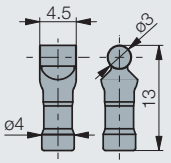
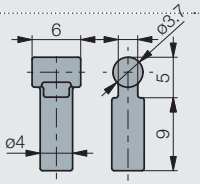
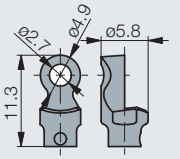
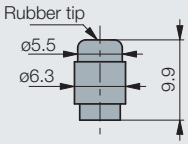
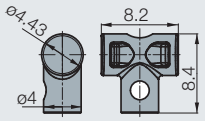
Dimensions	*Damping force at v=1000mm/min	Max. stroke X (mm)
L Series 9-50 	from 2 to 22.5	50
L Series 9-75 	from 2 to 22.5	75
L Series 9-100 	from 7.5 to 25	100

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

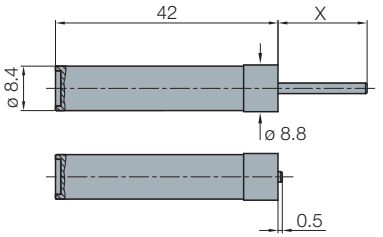
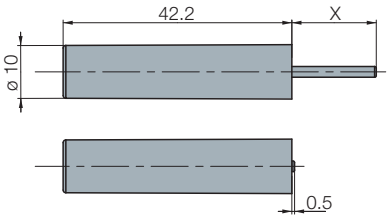
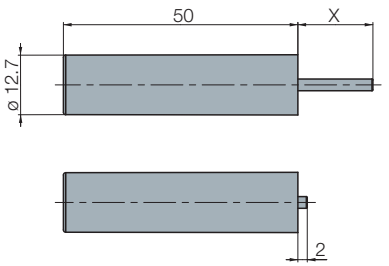
Adapters

		L Series 8 & 9-50	L Series 9-75/100
Adapter 1 		●	
Adapter 2 		●	
Adapter 3 		●	●
Adapter 4 		●	●
Adapter 5 		●	
Adapter 6 		●	●

Technical Details

S Series damper

-30 °C 150 °C

Dimensions	*Damping force at v=740mm/min	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.

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TitusDamper 01.1 Eng Jul25