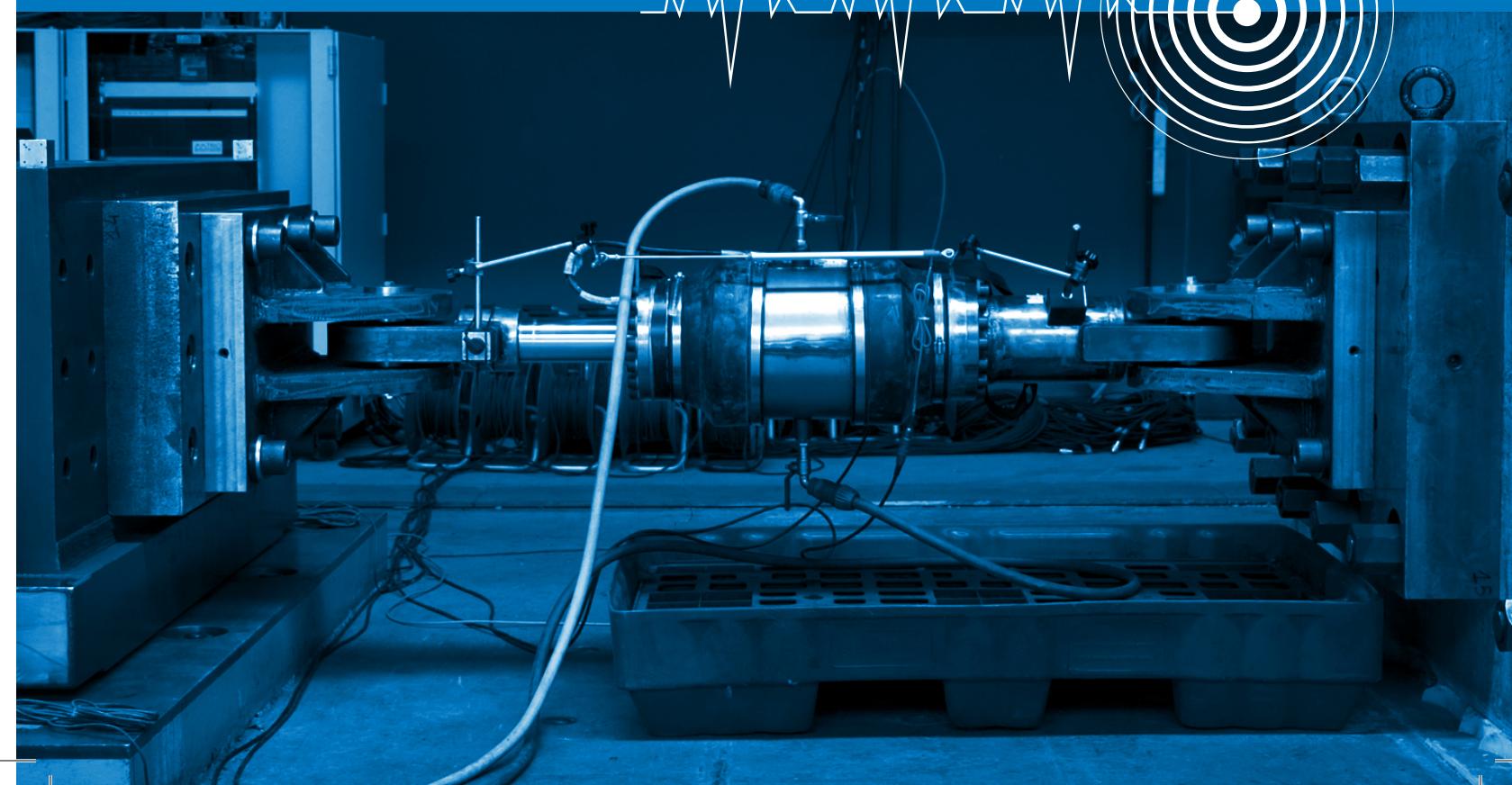




STRUCPRO

SEISMIC DAMPERS

SHOCK TRANSMISSION UNITS

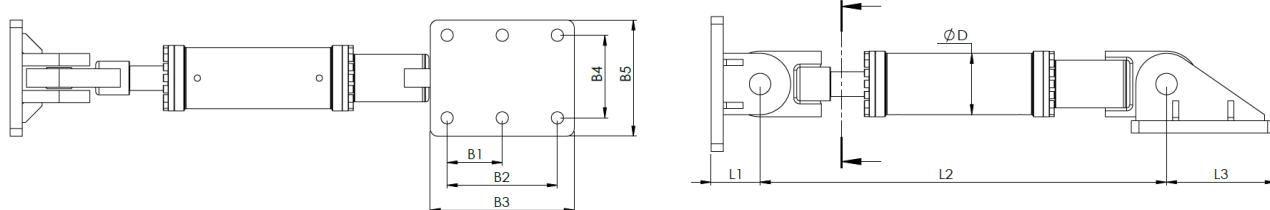
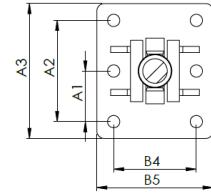


STRUCPRO–Shock Transmission Unit

Type	Axial Force kN	+/-50 mm		+/-100 mm		+/-150 mm		L1	L3	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5
		D	L2	D	L2	D	L2												
STU-115-400	400	140	975	150	1225	140	1475	152	415	140	280	400	230	350	215	430	550	230	350
STU-115-600	600	140	975	150	1225	140	1475	152	415	140	280	400	230	350	215	430	550	230	350
STU-160-800	800	214	1080	214	1330	214	1580	190	415	150	300	500	300	400	250	500	600	300	400
STU-160-1000	1 000	214	1080	214	1330	214	1580	190	415	150	300	500	300	400	250	500	600	300	400
STU-160-1200	1 200	214	1080	214	1330	214	1580	190	415	150	300	500	300	400	250	500	600	300	400
STU-220-1400	1 400	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450
STU-220-1600	1 600	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450
STU-220-1800	1 800	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450
STU-220-2000	2 000	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450

- Design parameters can be customized upon requirements

Features	Description
Minimum design life	50 years without the need of intensive maintenance
Corrosion protection	C4 as standard - Others e. g. C5M upon request
Hydraulic fluid	Silicone oil
CE marking	Produced and tested in accordance with EN 15129:2009



STRUCPRO–Seismic Viscous Damper

Type	Axial Force kN	+/-50 mm		+/-100 mm		+/-150 mm		L1	L3	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5
		D	L2	D	L2	D	L2												
SVD-100-200	200	116	600	116	820	116	1040	100	280	80	160	210	100	160	90	180	240	100	160
SVD-100-300	300	116	600	116	820	116	1040	100	280	80	160	210	100	160	90	180	240	100	160
SVD-115-500	500	140	975	150	1225	140	1475	152	415	140	280	400	230	350	215	430	550	230	350
SVD-115-750	750	140	975	150	1225	140	1475	152	415	140	280	400	230	350	215	430	550	230	350
SVD-160-1000	1 000	214	1080	214	1330	214	1580	190	415	150	300	500	300	400	250	500	600	300	400
SVD-160-1250	1 250	214	1080	214	1330	214	1580	190	415	150	300	500	300	400	250	500	600	300	400
SVD-160-1500	1 500	214	1080	214	1330	214	1580	190	415	150	300	500	300	400	250	500	600	300	400
SVD-220-1750	1 750	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450
SVD-220-2000	2 000	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450
SVD-220-2250	2 250	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450
SVD-220-2500	2 500	280	1037	280	1287	280	1537	290	495	150	300	560	336	450	325	600	700	336	450

-Design parameters can be customized upon requirements

Features	Description
Minimum design life	50 years without the need of intensive maintenance
Corrosion protection	C4 as standard - Others e. g. C5M upon request
Hydraulic fluid	Silicone oil
CE marking	Produced and tested in accordance with EN 15129:2009
Velocity exponent	0,08 < α < 2

STRUCPRO – Your Choice for Seismic Structural Protection

STRUCPRO stands for Structural Protection. Drawing from our long experience in both the rail and bridge industry, we have incorporated all our knowledge in our seismic dampers. A flexible platform of viscous hydraulic dampers created to withstand the forces of nature in the toughest environments without renouncing any demands or design requirements for earthquake protection. Welcome to discover the STRUCPRO series of seismic dampers.

A Growing Portfolio of FVDs and STUs

The application area of structures is nothing new to us, as being the preferred supplier of bridge dampers for large-span bridges across the globe for decades. The STRUCPRO family expands our capacity in the structural segment to offer seismic protection for skyscrapers, residential buildings, factories, historical buildings and infrastructure, wherever seismic protection is needed.

Highest Quality

All dampers are designed and produced in Sweden in accordance with EN 15129:2009 / ASCE 7-22 or customized requirements. The STRUCPRO series has undergone extensive testing and simulation, carried out in-house during development and by the well-renowned seismic test institute EUCENTRE in Italy, for certification. This showcases the capability of our design, withstanding the stress and forces of mother nature, whilst giving us the comfort for warrant a design service life of 50 years.

Long-life Seal Solution

The STRUCPRO platform utilizes the seal design principles from our extensive offshore and rail industry experience, where the highest possible demands are applied in terms of longevity and functionality. Our long-life seal solution will provide service life up to 50 years without the need for any intensive maintenance.

The STRUCPRO family – a Flexible Platform

The STRUCPRO Series is designed as a scalable platform within the 200-3000 kN range with options up to 4000kN. These customized dampers are offered with linear or nonlinear alpha values between 0,08 – 2,0. Our SVDs (Seismic Viscous Dampers also known as FVDs, Fluid Viscous Dampers) dissipate seismic energy, reducing stress to the structure and protecting it during an earthquake. Our STUs (Shock Transmission Units) are used to transfer dynamic loads while allowing slow movements like thermal expansion. STUs also dissipate seismic energy to a more solid foundation, reducing stress on critical components while protecting the structure from damage and collapse. Together, these systems enhance structural resilience and safety in seismic regions.

Intelligent Design

STRUCPRO is designed for performance excellence, but in an optimized and compact design. Low weight saves in transport and simplifies mounting while still benefitting from world class protection against seismic activities. The sleek design enables discreet installation of the dampers in all applications, including structures for buildings or bridges and retrofits in historical buildings or monuments.

High Strength Steel

By using high strength steel, the weight is significantly reduced compared to equal sizes of dampers on the market. This choice of quality material ensures that the dampers will withstand the extreme forces of an earthquake thus protecting the structure, keeping it operational and safe.

About Dellner Dampers AB

For over six decades, Dellner Dampers has been engineering world-class, tailor-made damping solutions for customers across the globe. From leading rail and industrial manufacturers to some of the most prestigious engineering companies on the planet, our partners all share a common goal – to push performance, safety, and comfort to new heights.

Every day, our solutions quietly work behind the scenes, supporting applications that serve billions of people. Wherever there is movement, there is energy to control – and we master that challenge with precision, innovation, and reliability.

Dellner Dampers – Stabilizing Your Movement

More Information

Download available data sheets and watch the behind the scenes video from the testing at:
www.dellnerdampers.se

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