Connection Technology

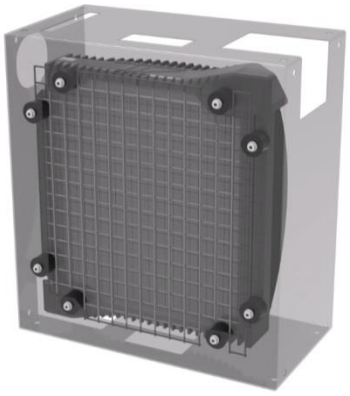
MDGQ silent blocks

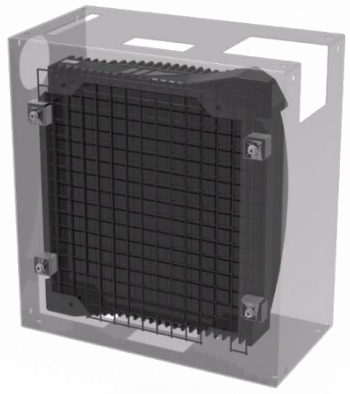
Innovation

Have you ever seen a company searching for bad technical solutions?

As a global technology group with its different technical categories we have a wide spreaded demand of technical solutions and products in the markets. When we find out that we are using an average solution or not even finding an appropriate product, we start developing it on our own!

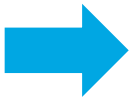
The connection technology product group is therefore a collection of solved problems and completes a lack of technology at different markets and applications. Take a look at our systems and solutions and get in contact for any new possible project development!





8x

4x



– low shear loads
– short life time

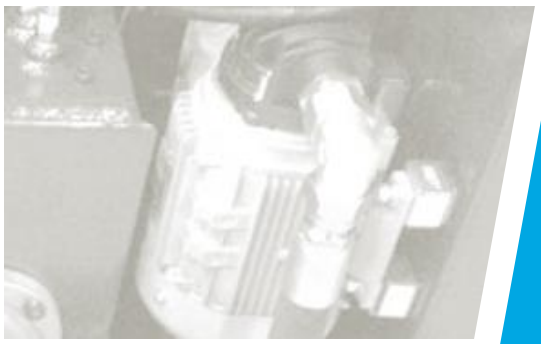
✓ higher shear loads!
✓ long duration!

Example Rubber Vibration Absorbers:

This example shows the difference between the use of 8 cylindrical rubber shock absorbers compared to 4 of our new shock absorbers.

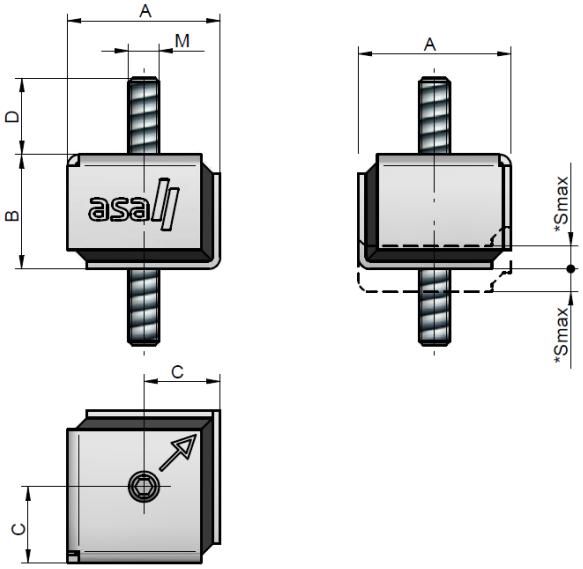
– On the left picture you can see the necessary use of 8 conventional absorbers to support a ~26kg unit. This configuration has still limited shear load capability followed by a short duration.

- The right picture shows a replacement of the 8 units with only 4 of our absorbers with the new design. This configuration allows even higher shear loads. As a result we reduce costs and raise the life time of the product at the same time.



Vibration Absorber
MDGQ / Type A

The *asa* rubber vibration absorbers are rubber metal connected parts to absorb impact loads on components as protection and to extent the life time. The patented solution is especially equipped for highest shear loads. An assembly system controlled by arrows on the metal parts helps to optimize and raise the load capability of the vibration absorber.



*Smax.....maximum working distance

Dimensions

order number	description	A	B	C	D	M	Smax	shore	tightening torque	weight
		[mm]	[mm]	[mm]	[mm]		[mm]		[Nm]	[kg]
MDGQ403008AAK	Vibration Absorber 40 type A Kit	40	30	20	25 ±1	M8	± 3	45 ±5	6	0,16
MDGQ504510AAK	Vibration Absorber 50 type A Kit	50	45	25	33 ±1,5	M10	± 6	55 ±5	12	0,38
MDGQ755512AAK	Vibration Absorber 75 type A Kit	75	55	37,5	35 ±1,5	M12	± 8	55 ±5	20	0,75
MDGQ1007516AAK	Vibration Absorber 100 type A Kit	100	75	50	45 ±1,5	M16	± 9	65 ±5	50	2,10

for more information, see page 6

Material

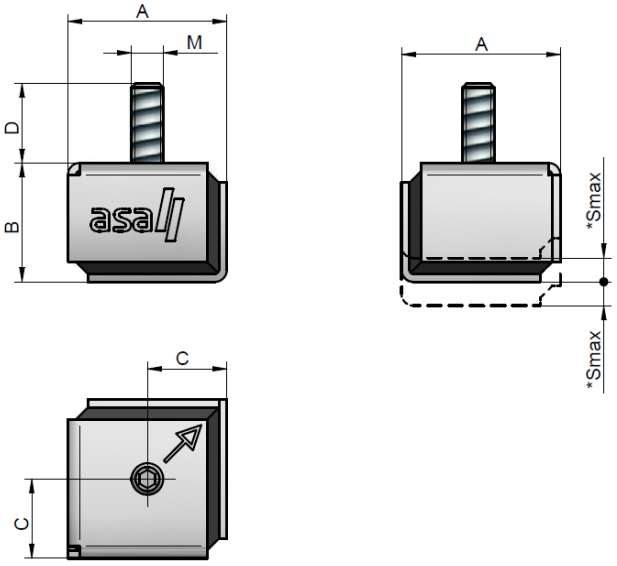
absorber housing	zinc coated
threaded pin	stainless steel
elastomer	natural rubber
working temperature range	-30°C to +80°C

Options

stainless steel type	MDGQ403008AAWK

Vibration Absorber
MDGQ / Type B

The *asa* rubber vibration absorbers are rubber metal connected parts to absorb impact loads on components as protection and to extent the life time. The patented solution is especially equipped for highest shear loads. An assembly system controlled by arrows on the metal parts helps to optimize and raise the load capability of the vibration absorber.



*Smax.....maximum working distance

Dimensions

order number	description	A	B	C	D	M	Smax	shore	tightening torque	weight
		[mm]	[mm]	[mm]	[mm]		[mm]		[Nm]	[kg]
MDGQ403008AIK	Vibration Absorber 40 type B Kit	40	30	20	25 ±1	M8	± 3	45 ±5	6	0,14
MDGQ504510AIK	Vibration Absorber 50 type B Kit	50	45	25	33 ±1,5	M10	± 6	55 ±5	12	0,30
MDGQ755512AIK	Vibration Absorber 75 type B Kit	75	55	37,5	35 ±1,5	M12	± 8	55 ±5	20	0,70
MDGQ1007516AIK	Vibration Absorber 100 type B Kit	100	75	50	45 ±1,5	M16	± 9	65 ±5	50	2,00

for more information, see page 6

Material

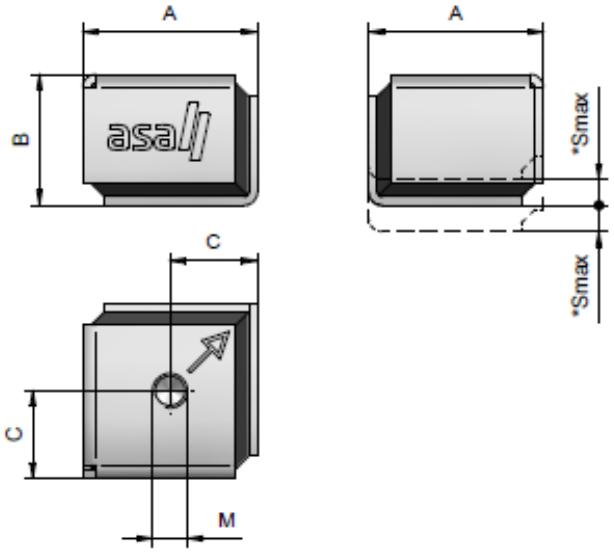
absorber housing	zinc coated
threaded pin	stainless steel
elastomer	natural rubber
working temperature range	-30°C to +80°C

Options

stainless steel type	MDGQ403008AIWK

Vibration Absorber
MDGQ / Type C

The *asa* rubber vibration absorbers are rubber metal connected parts to absorb impact loads on components as protection and to extent the life time. The patented solution is especially equipped for highest shear loads. An assembly system controlled by arrows on the metal parts helps to optimize and raise the load capability of the vibration absorber.



*Smax.....maximum working distance

Dimensions

order number	description	A	B	C	M	Smax	weight
		[mm]	[mm]	[mm]		[mm]	[kg]
MDGQ403008IIK	Vibration Absorber 40 Kit	40	30	20	M8 x 10	± 3	0,13
MDGQ504510IIK	Vibration Absorber 50 Kit	50	45	25	M10 x 12	± 6	0,28
MDGQ755512IIK	Vibration Absorber 75 Kit	75	55	37,5	M12 x 15	± 8	0,66
MDGQ1007516IIK	Vibration Absorber 100 Kit	100	75	50	M16 x 16,5	± 9	1,90

for more information, see page 6

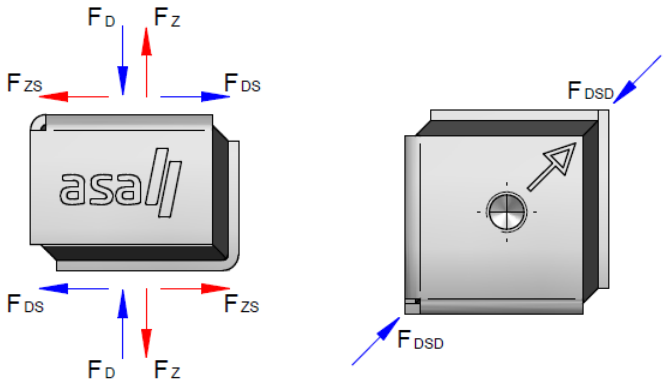
Material

metal	zinc coated
elastomer	natural rubber
working temperature range	-30°C to +80°C

Options

stainless steel type	MDGQ403008IIWK

Vibration Absorber
Load Capacities, Maximum Static Loads



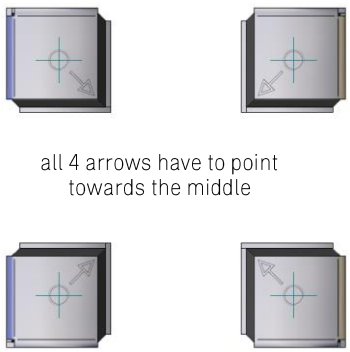
order number	description	compression F_D	tension F_Z	compression/shear F_{DS}	tension/shear F_{ZS}	compression/shear diagonal F_{DSD}
		[N]	[N]	[N]	[N]	[N]
MDGQ403008IIK	Vibration Absorber 40 Kit	800	250	700	350	950
MDGQ504510IIK	Vibration Absorber 50 Kit	2000	1450	1550	1500	2250
MDGQ755512IIK	Vibration Absorber 75 Kit	4250	2250	2600	2200	3850
MDGQ1007516IIK	Vibration Absorber 100 Kit	11700	8800	6900	6350	8350

Spring Rates

order number	description	compression C_D	tension C_Z	compression/shear C_{DS}	tension/shear C_{ZS}	compression/shear diagonal C_{DSD}
		[N/mm]	[N/mm]	[N/mm]	[N/mm]	[N/mm]
MDGQ403008IIK	Vibration Absorber 40 Kit	267	83	233	117	317
MDGQ504510IIK	Vibration Absorber 50 Kit	333	241	258	250	375
MDGQ755512IIK	Vibration Absorber 75 Kit	531	281	325	275	481
MDGQ1007516IIK	Vibration Absorber 100 Kit	1301	982	770	709	932

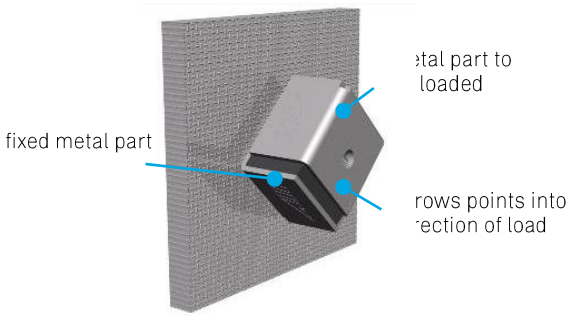
Assembly Instructions

assembly of 4 vibration absorbers::



all 4 arrows have to point towards the middle

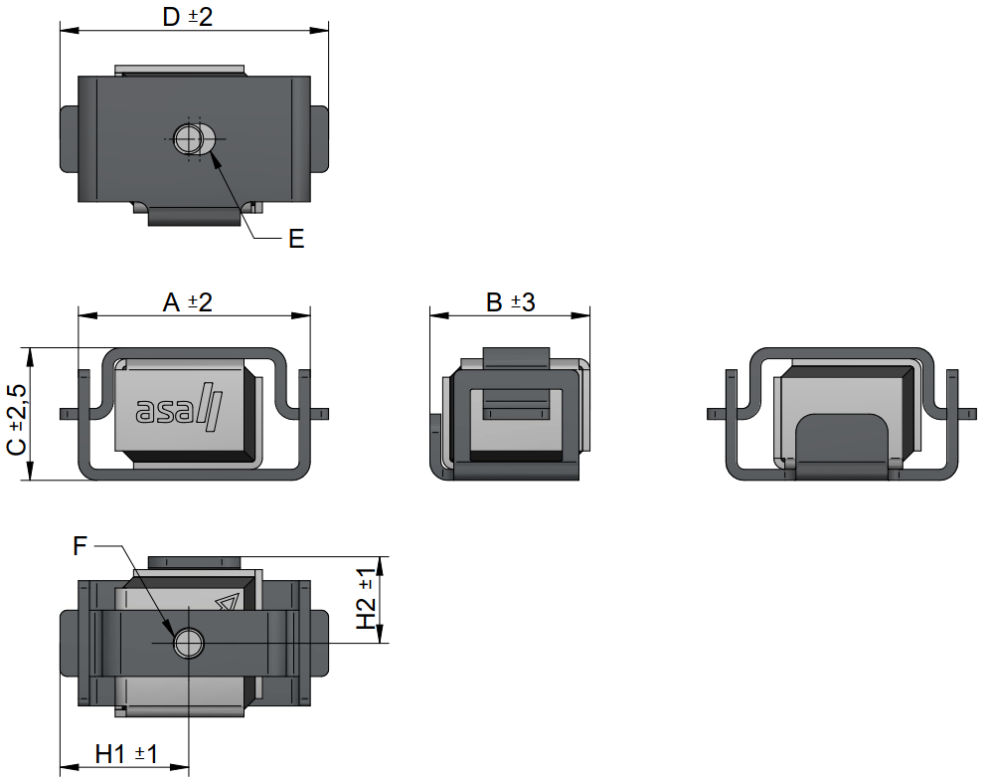
best mounting position:



Vibration Absorber

MDGQ with Safe-lock system

The MDGQ safe-lock system is a configuration to equip our unique multi-axial vibration absorber design with a break-safe mechanical lock for applications with high safety regulations. The main advantages of our MDGQ absorbers with safe-lock option remain unchanged: best vibration absorption of impact loads on components with only 2 connection points, as well as the special ability to handle highest shear loads. An assembly system controlled by arrows on the metal parts helps to optimize and raise the load capability of the vibration absorber.



Dimensions

order number	description	A	B	C	D	E	F	H1	H2	weight
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
MDGQ403008IISK	Vibration Absorber 40 type C-S	63	43,5	36	73	Ø8,5x11,5	Ø8,5	35	23,5	0,25
MDGQ504510IISK	Vibration Absorber 50 type C-S	87,8	55	54	109,8	Ø10,5x16,5	Ø10,5	51,8	30	0,59
MDGQ755512IISK	Vibration Absorber 75 type C-S	118,8	79,3	64	149,8	Ø12,5x20,5	Ø12,5	70,8	41,8	1,26

Performance

load capacities, maximum static loads	see data page 6

Material

metal	stainless steel
absorber housing	steel / zinc coated
elastomer	natural rubber
working temperature range	-30°C to +80°C

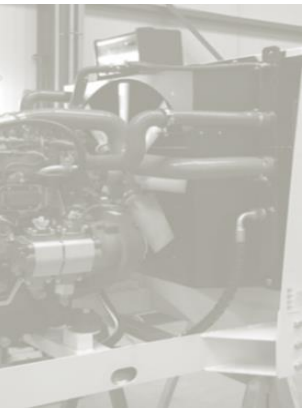
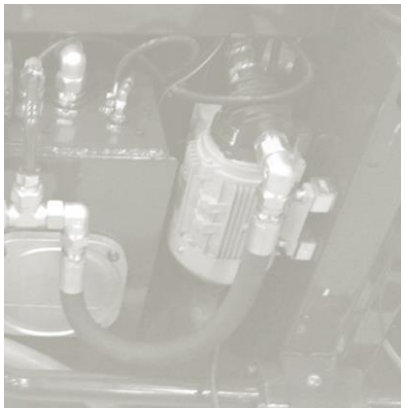
Options

stainless steel type	MDGQ403008IIWSK
multiaxial damper Type A	MDGQXXXXXXAASK
multiaxial damper Type B	MDGQXXXXXXAISK

asa

Thermal Systems
Connection Technology
Fluid Controls

be different.
make a difference.


AUSTRIA
asa technology GmbH
Prager Strasse 280
A-1210, Vienna
Tel.: +43 1 292 40 20
support@asahydraulik.com

USA
asa hydraulik of America
160 Meister Avenue 20 A
Branchburg, New Jersey 08876
Tel.: +1 800 473 94 00
Tel.: +1 908 541 15 00
sales_us@asahydraulik.com

CHINA
安飒液压科技（苏州）有限公司
asa Hydraulik Technology (Suzhou) Co.Ltd
江苏省苏州市工业园区方洲路128号6区B幢
Area 6, Building B,
Fangzhou Road No 128,
Suzhou industrial park,
Suzhou City, Jiangsu Province
Tel.: +86 512 62381988
suzhou@asahydraulik.com

AUSTRALIA
asa Products Pty Ltd
Quinlan Road 23
3076 Epping, Victoria
Tel.: +61 3 9397 6129
melbourne@asahydraulik.com

INDIA
asa heatexchanger Pvt Ltd
Plot no.1226, Phase-3, GIDC, Vatva
Ahmedabad - 382445
Tel.: +91 22 28195557
salesindia@asahydraulik.com