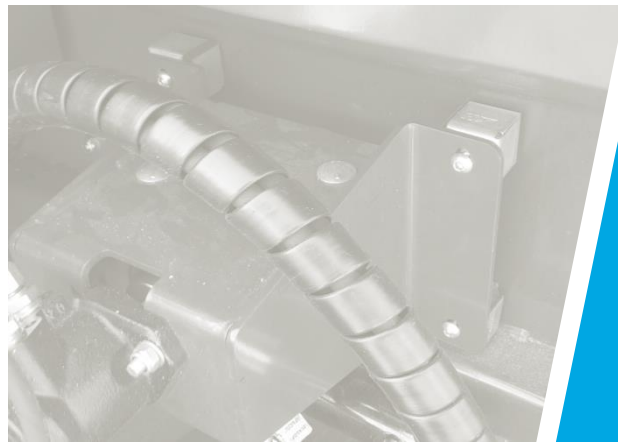
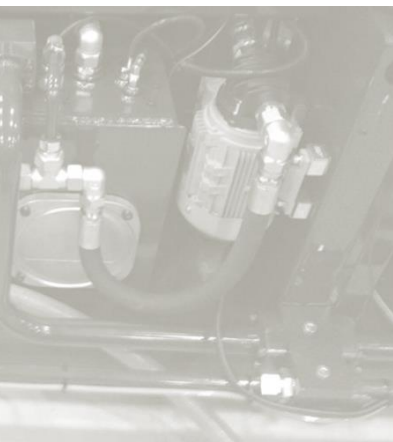




Connection Technology

MDGQ silent blocks



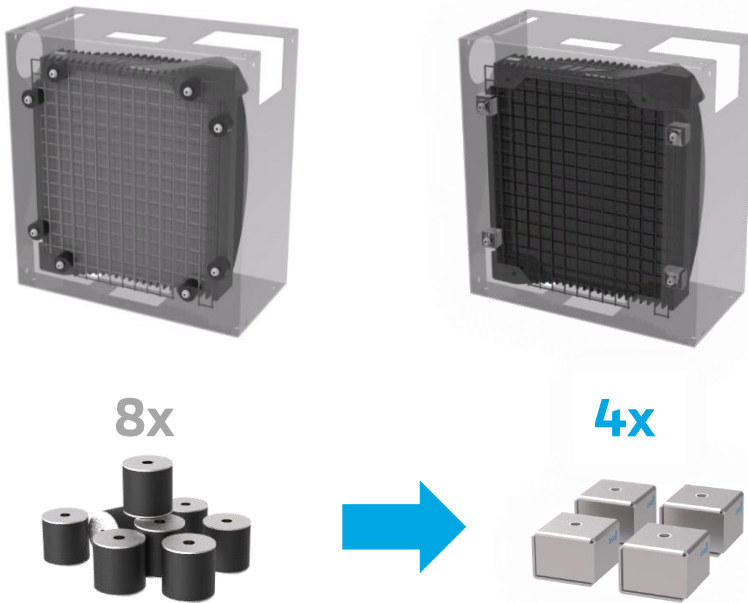
o b
altit
per
unt

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!



- 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.

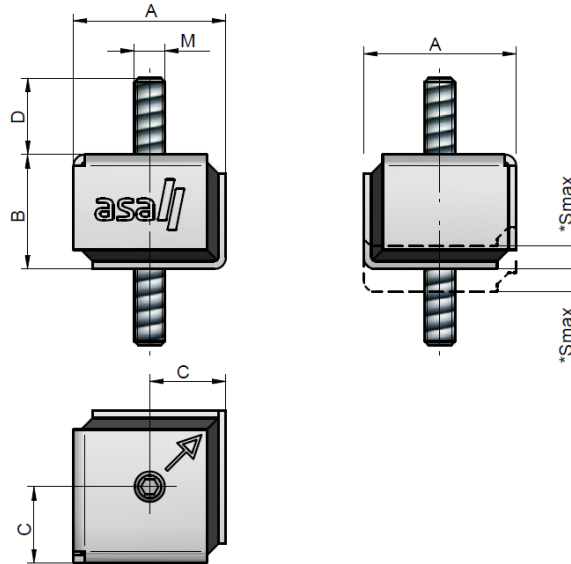
- On the left picture you can see the necessary use of 8 conventional absorbers to support a ~26kg unit. This configuration has still limited shear load capability followed by a short duration.
- The right picture shows a replacement of the 8 units with only 4 of our absorbers with the new design. This 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 extend 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
		[in]	[in]	[in]	[in]		[in]		[lbf ft]	[lbs]
MDGQ403008AAU00	Vibration Absorber 40 type A Kit	1.57	1.18	0.79	0.98 ±0.06	M8	± 0.12	45±5	4	0.4
MDGQ504510AAU00	Vibration Absorber 50 type A Kit	1.97	1.77	0.98	1.30 ±0.06	M10	± 0.24	55±5	9	0.8
MDGQ755512AAU00	Vibration Absorber 75 type A Kit	2.95	2.17	1.48	1.38 ±0.06	M12	± 0.31	55±5	14	1.7
MDGQ1007516AAU00	Vibration Absorber 100 type A Kit	3.93	2.95	1.97	1.77 ±0.06	M16	± 0.35	65±5	36	4.6

for more information, see page 6

Material

absorber housing	zinc coated
threaded pin	stainless steel
elastomer	natural rubber
working temperature range	-22°F to +176°F

Options

stainless steel type	MDGQ403008AAWU00
----------------------	------------------

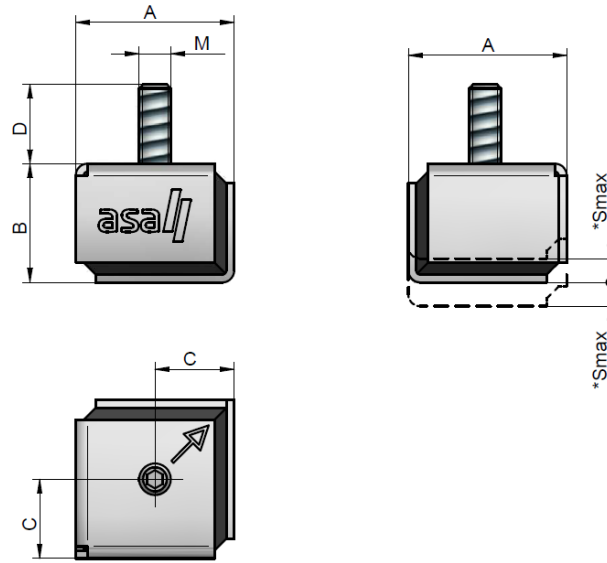


This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-VL, General tolerances for casted parts according to EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.

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 extend 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
		[in]	[in]	[in]	[in]		[in]		[lbf ft]	[lbs]
MDGQ403008AIU00	Vibration Absorber 40 type B Kit	1.57	1.18	0.79	0.98 ±0.06	M8	± 0.12	45±5	4	0.30
MDGQ504510AIU00	Vibration Absorber 50 type B Kit	1.97	1.77	0.98	1.30 ±0.06	M10	± 0.24	55±5	9	0.70
MDGQ755512AIU00	Vibration Absorber 75 type B Kit	2.95	2.17	1.48	1.38 ±0.06	M12	± 0.31	55±5	14	1.50
MDGQ1007516AIU00	Vibration Absorber 100 type B Kit	3.93	2.95	1.97	1.77 ±0.06	M16	± 0.35	65±5	36	4.40

for more information, see page 6

Material

absorber housing	zinc coated
threaded pin	stainless steel
elastomer	natural rubber
working temperature range	-22°F to +176°F

Options

stainless steel type	MDGQ403008AIWU00
----------------------	------------------

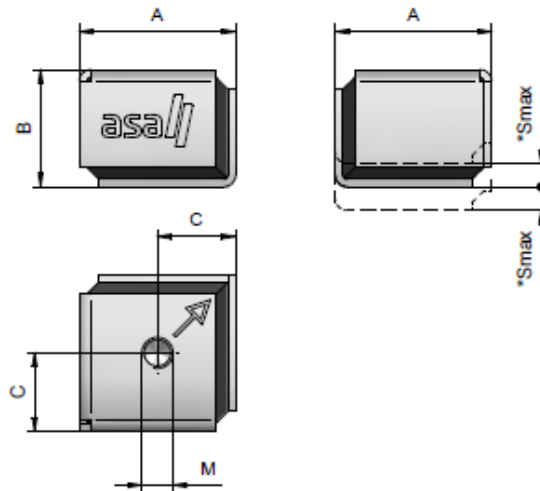


This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-vL, General tolerances for casted parts according to EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.

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 extend 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
		[in]	[in]	[in]	metric thread x length(in)	[in]	[lbs]
MDGQ403008IIU00	Vibration Absorber 40 type C Kit	1.57	1.18	0.79	M 8 x 0.39	± 0.12	0.28
MDGQ504510IIU00	Vibration Absorber 50 type C Kit	1.97	1.77	0.98	M 10 x 0.47	± 0.24	0.62
MDGQ755512IIU00	Vibration Absorber 75 type C Kit	2.95	2.17	1.48	M 12 x 0.59	± 0.31	1.45
MDGQ1007516IIU00	Vibration Absorber 100 type C Kit	3.93	2.95	1.97	M 16 x 0.65	± 0.35	4.23

for more information, see page 6

Material

metal	zinc coated
elastomer	natural rubber
working temperature range	-22°F to +176°F

Options

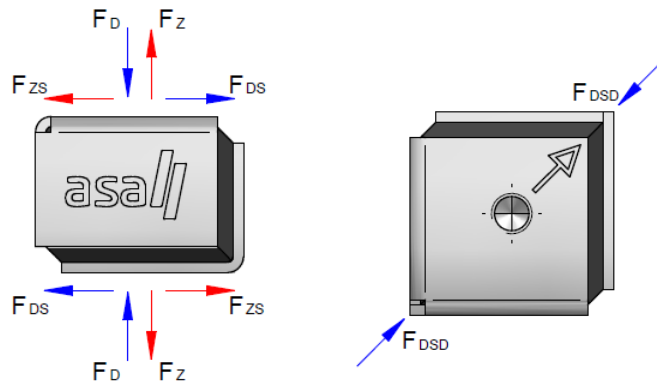
stainless steel type	MDGQ403008IIWU00
----------------------	------------------



This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-vL, General tolerances for casted parts according EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.

Vibration Absorber

Load Capacities, Maximum Static Loads



Load capacities, maximum static loads

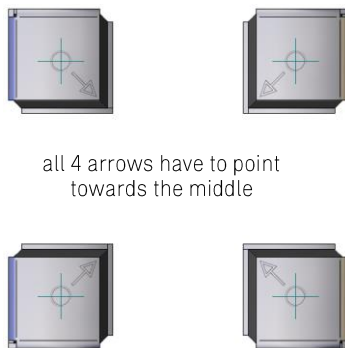
order number	description	compression F_D	tension F_Z	compression/shear F_{DS}	tension/shear F_{ZS}	compression/shear diagonal F_{DSD}
		[lb _f]	[lb _f]	[lb _f]	[lb _f]	[lb _f]
MDGQ403008IIU00	Vibration Absorber 40 type C Kit	180	60	160	80	210
MDGQ504510IIU00	Vibration Absorber 50 type C Kit	550	330	350	340	510
MDGQ755512IIU00	Vibration Absorber 75 type C Kit	960	510	580	490	870
MDGQ1007516IIU00	Vibration Absorber 100 type C Kit	2630	1978	1551	1428	1877

Spring Rates

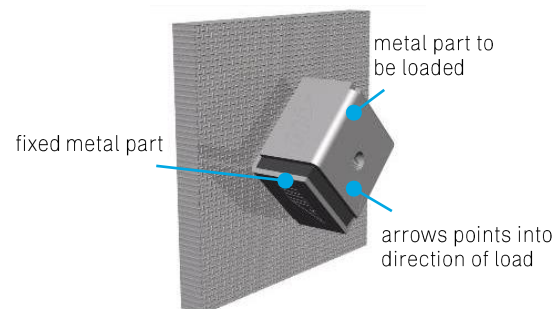
order number	description	compression F_D	tension F_Z	compression/shear F_{DS}	tension/shear F_{ZS}	compression/shear diagonal F_{DSD}
		[lb _f]	[lb _f]	[lb _f]	[lb _f]	[lb _f]
MDGQ403008IIU00	Vibration Absorber 40 type C Kit	180	60	160	80	210
MDGQ504510IIU00	Vibration Absorber 50 type C Kit	550	330	350	340	510
MDGQ755512IIU00	Vibration Absorber 75 type C Kit	960	510	580	490	870
MDGQ1007516IIU00	Vibration Absorber 100 type C Kit	2630	1978	1551	1428	1877

Assembly Instructions

assembly of 4 vibration absorbers::



best mounting position:



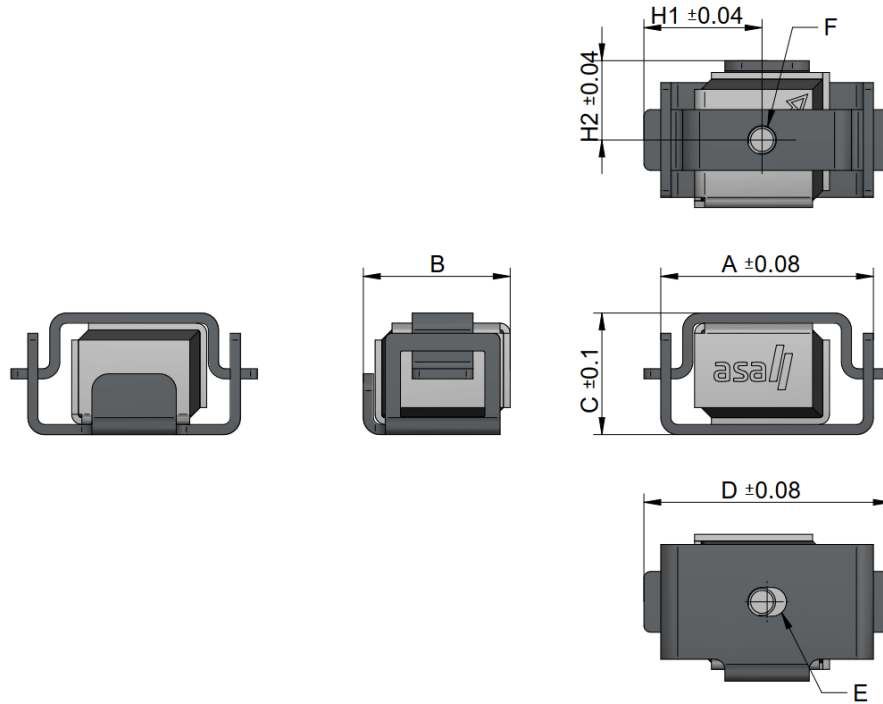
This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-vL, General tolerances for casted parts according to EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.

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
		[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[lbs]
MDGQ403008IISU00	Vibration Absorber 40 type C-S kit	2.48	1.71	1.42	2.87	∅0.33x0.45	∅0.33	1.38	0.93	0.55
MDGQ504510IISU00	Vibration Absorber 50 type C-S kit	3.46	2.17	2.13	4.32	∅0.41x0.65	∅0.41	2.04	1.18	1.30
MDGQ755512IISU00	Vibration Absorber 75 type C-S kit	4.68	3.12	2.52	5.90	∅0.49x0.81	∅0.49	2.79	1.65	2.78

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	-22°F to +176°F

Options

stainless steel type	MDGQ403008IIWSU00
multiaxial damper Type A	MDGQXXXXXAASU00
multiaxial damper Type B	MDGQXXXXXAISU00



This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-vL, General tolerances for casted parts according to EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.

**be different.
make a difference.**



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

AUSTRIA

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