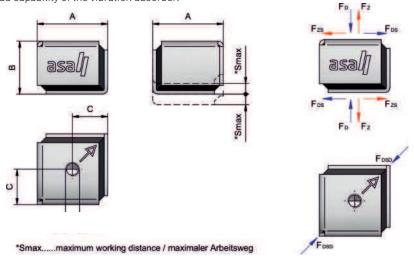
# Vibration Absorber MDGQ Absorber



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.



## **Dimensions**

| order number      | description    | А    | В    | С    | М          | Smax | shore degree | weight |
|-------------------|----------------|------|------|------|------------|------|--------------|--------|
|                   |                | [mm] | [mm] | [mm] |            | [mm] |              | [kg]   |
| MDGQ403008IIKI00  | 40x40x30 M8    | 40   | 30   | 20   | M8 x 10    | ± 3  | 45 ± 5       | 0,127  |
| MDGQ504510IIKI00  | 50x50x45 M10   | 50   | 45   | 25   | M10 x 12   | ± 6  | 55 ± 5       | 0,280  |
| MDGQ755512IIKI00  | 75x75x55 M12   | 75   | 55   | 37,5 | M12 x 15   | ± 8  | 55 ± 5       | 0,659  |
| MDGQ1007516IIKI00 | 100x100x75 M16 | 100  | 75   | 50   | M16 x 16,5 | ± 9  | $65 \pm 5$   | 1,920  |

## Load Capacities, Maximum Static Loads

| order number      | description    | compression<br>F <sub>D</sub> | tension<br>F <sub>z</sub> | compression/shear<br>F <sub>DS</sub> | tension/shear<br>F <sub>zs</sub> | compression/shear diagonal<br>F <sub>DSD</sub> |
|-------------------|----------------|-------------------------------|---------------------------|--------------------------------------|----------------------------------|--|
|                   |                | [N]                           | [N]                       | [N]                                  | [N]                              | [N]  |
| MDGQ403008IIKI00  | 40x40x30 M8    | 800                           | 250                       | 700                                  | 350                              | 950  |
| MDGQ504510IIKI00  | 50x50x45 M10   | 2000                          | 1450                      | 1550                                 | 1500                             | 2250   |
| MDGQ755512IIKI00  | 75x75x55 M12   | 4250                          | 2250                      | 2600                                 | 2200                             | 3850   |
| MDGQ1007516IIKI00 | 100x100x75 M16 | 11700                         | 8800                      | 6900                                 | 6350                             | 8350   |

## **Spring Rates**

| order number      | description    | compression<br>C <sub>D</sub> | tension<br>C <sub>z</sub> | compression/shear<br>C <sub>DS</sub> | tension/shear<br>C <sub>zs</sub> | compression/shear<br>diagonal C <sub>DSD</sub> |
|-------------------|----------------|-------------------------------|---------------------------|--------------------------------------|----------------------------------|--|
|                   |                | [N/mm]                        | [N/mm]                    | [N/mm]                               | [N/mm]                           | [N/mm]   |
| MDGQ403008IIKI00  | 40x40x30 M8    | 267                           | 83                        | 233                                  | 117                              | 317  |
| MDGQ504510IIKI00  | 50x50x45 M10   | 333                           | 241                       | 258                                  | 250                              | 375  |
| MDGQ755512IIKI00  | 75x75x55 M12   | 531                           | 281                       | 325                                  | 275                              | 481  |
| MDGQ1007516IIKI00 | 100x100x75 M16 | 1301                          | 982                       | 770                                  | 709                              | 932  |

#### Assembly Instructions

assembly of 4 vibration absorbers:



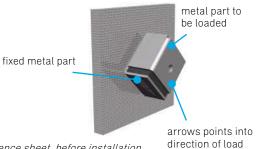


all 4 arrows have to point towards the middle





best mounting position:



Please read product application reference sheet, before installation.

#### Material

| metal                     | zinc coated    |
|---------------------------|----------------|
| elastomer                 | natural rubber |
| working temperature range | -30°C to +70°C |

#### Ontions

| ptions               |  |
|----------------------|--|
| stainless steel type | 500 hrs tested   |
|                      | according<br>DIN EN ISO 9227-<br>NSS (salt spray test) |

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, as 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. Because there is no standardized testing procedure, tests used by other manufacturers could have different results. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. 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 DIX INSO 2768-v. General tolerances for casted parts according to general tolerances for rubber parts are according to IDX INSO 2768-v. General tolerances for casted parts according to GEO 330-C3 (DCTG 10). Tolerances for rubber parts are according to IDX 1030-C1(ass MAF+Q). 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. In addition to that we point out that any data sheet and corresponding scale drawing is no substitution for the manual.

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\*\*@asa hydraulik\*\*, October 2019\*\*

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