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#### 2.1 Shock mounting type RDS-R80

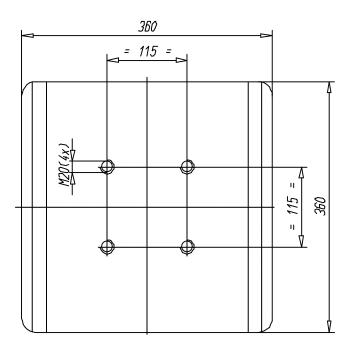
Rubber Design developed this shock mounting mainly for marine applications. This type of mounting can stand a linear shock deflection up to 80 mm. The RDS mounting is meeting the requirements of all international shock specifications such as BV 043, BV 044, MIL 901, STANAG and MOD.

The shock mounting type RDS is in particular suitable for marine applications such as propulsion engines, diesel generator sets and auxiliary equipment where attenuation of low frequencies is required.

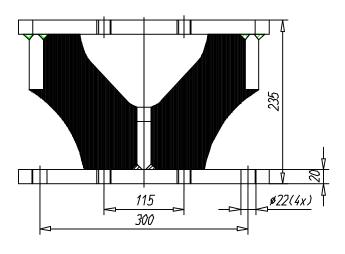
The RDS shock mounting is capable to reduce an input shock of 210 G to a transmitted shock of 6 G in a time to maximum velocity of 5 ms.

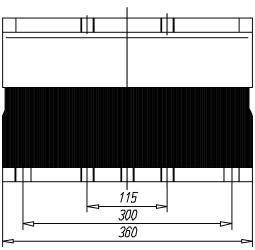
The RDS shock mounting is suitable for a nominal load of 23 kN and a maximum load of 34 kN. resulting in a natural frequency of 4 Hz under maximum load.

The RDS shock mounting developed by Rubber Design with a shock deflection of 80 mm gives that extra shock insulation which makes the difference. Where others with the same unloaded mounting height are restricted to 60 mm shock deflection, Rubber Design operates at 80 mm.



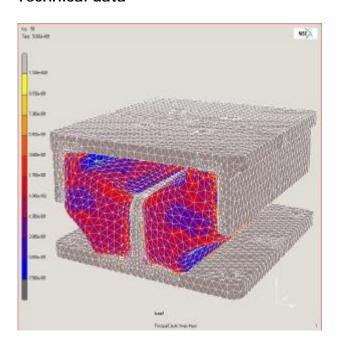


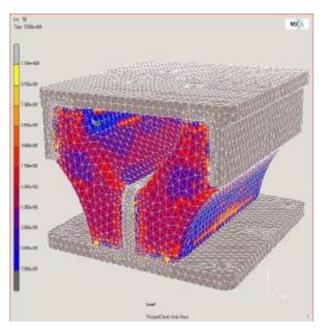


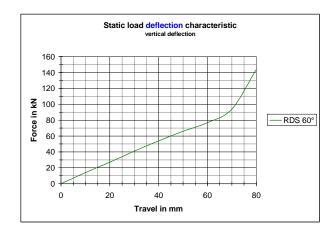


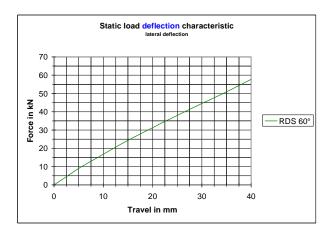


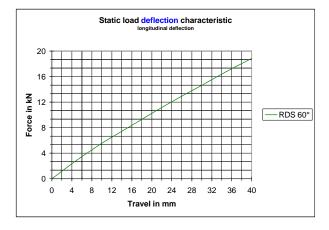
#### **Technical data**

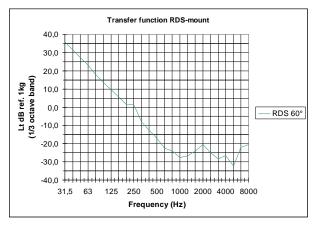












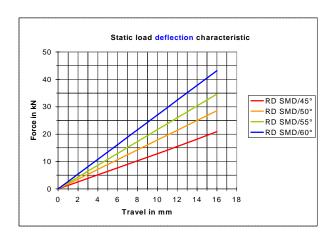


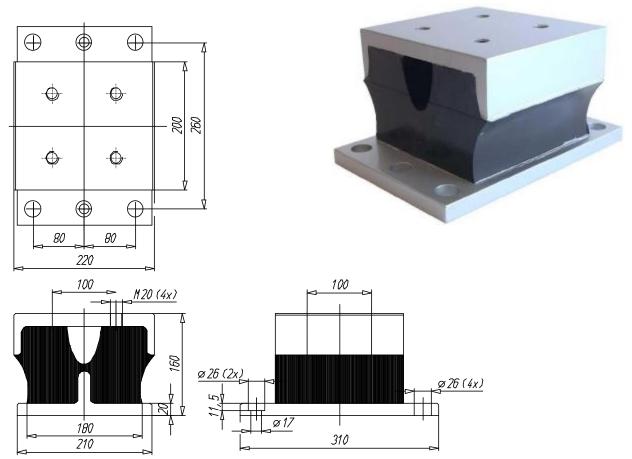
### 2.2 Shock mounting type RDS-R40

Based on the principals of our RDS-R80 shock mounting, the RDS-R40 adds to the range of high quality shock absorption solutions for marine applications. The nominal load range of the RDS-R40 is placed below the RDS-R80, complementing the range of high quality anti vibration and shock products for a larger equipment range. Working principals are likewise, providing very low transmitted shock under shock loads due to the linear shock load deflection curve. The RDS-R40 works with a linear shock deflection up to 40 mm.

The combination of high shock deflection capabilities and good sound & vibration isolation features, make this mounting the ideal solution for small medium speed diesel engines of generator sets, large pump sets and other rotary equipment.

Like all other RDS shock mountings, the RDS-R40 meets the requirements of all international shock specifications like, for example, BV043, BV044, MIL-STD-901, STANAG, MOD BR3021, etc.







#### 2.3 Shock mounting type RDS-C

#### General / Applications

In addition to the existing RDS shock mounting range, the new RDS C-165/95, RDS C-165/126 and RDS C-250/154 provide the ideal solution for equipment protection (up to 1500 kg per mounting) like water makers, pump sets, gensets and hydropacks, whilst also isolating the vibrations of the resiliently mounted equipment.

#### **Features**

The unique mounting design characteristics allows absorption of large shock displacements whilst ensuring excellent vibration isolation. The RDS C-mountings have a linear stiffness over a wide range varying from compression to extension, which is necessary to maintain the optimum isolation properties. The maximum deflection of the mounting as a result of shock impact is as large as up to 50 mm in all directions. Due to the conical round shape, the RDS-C mountings have identical stiffness characteristics in longitudinal and transverse direction. A special developed natural

rubber compound for high dynamic loads is used which ensures the best results for long lifetime of the shock mountings. The chosen metals provide a solid vulcanisation base, ensuring high quality within the RDS series.

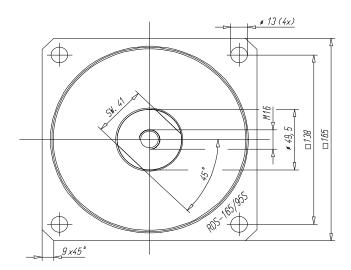
#### Quality control

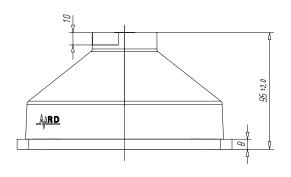
The mountings are individually tested, marked with date of production and identification number before delivery to the customers. The new RDS mountings fulfil the requirements of international shock specifications, such as BV 043, BV 044, MIL 901, STANAG, MOD etc.

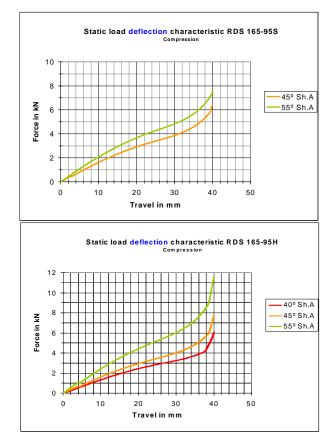
#### **Dimensions**

The 165/95 S and H have identical dimensions, but different stiffness's and characteristics. Likewise, the 165/126 S and H mountings share identical dimensions, but vary in stiffness and characteristics.

The 250/154S is only available in 'S'-execution.

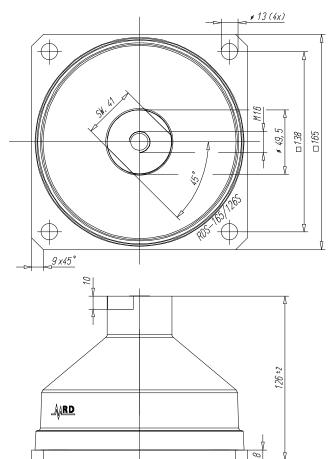


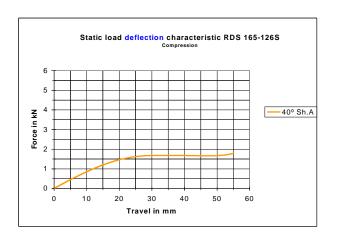


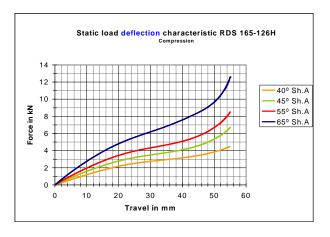


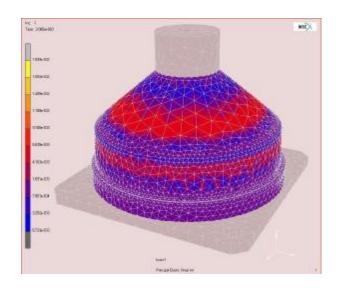


### Technical data



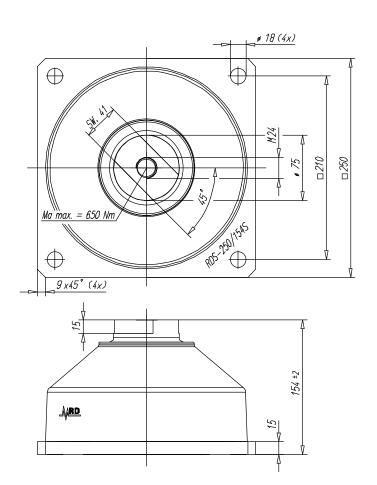




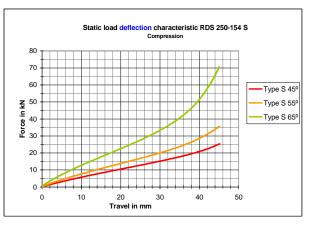
















#### 2.4 Shock mounting type RDS-X

The type X leaf spring mounting was first introduced into the Naval Service some years ago by the MOD to isolate equipment from under water shock and to prevent vibration from equipment transferring to a ship's structure and thus water. The present range of this type of mounting is between 10 kg to 450 kg. However, the reduction in the size and mass of ancillary equipment resulted in the addition of mass to accommodate the smallest mounting. There was therefore a requirement for a mounting of similar type but which will support smaller masses.

This range of mountings was designed specifically for shipboard applications and is particularly suitable to protect marine equipment from shock due to underwater explosions. When loaded within their recommended range, RDS-X Mountings are capable of attenuating large shock inputs. They are also an effective anti-vibration mounting, having a low natural frequency.

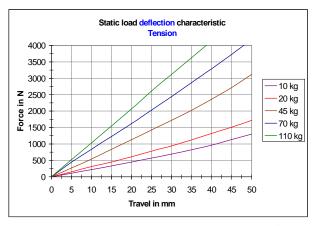
The RDS-X Mounting is made from stainless steel strip to BS 1449/302 S 25 hard cold rolled. The leaves are 'U' shaped and riveted or bolted together at the open ends with face plates and spacer platers to form an elliptical shaped assembly. The space between the inner and outer leaves is filled with an epoxy resin

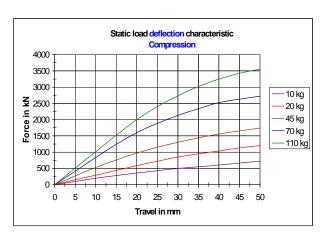
damping compound, and the whole Mounting is coated with neoprene paint. High-impact nylon bushes and washers, with stainless steel backing washers, are provided for improved noise attenuation and load bearing. There are eight sizes for nominal loads ranging from 10 to 450 kg.

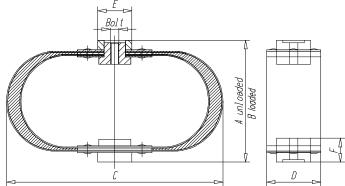
#### Non Magnetic RDS-X Mountings.

RDS-X Mountings can be manufactured for non-magnetic applications. Typical applications are for example: heavy machine tools, air compressors, engine suspensions, machine mountings, laboratory equipment, electric motors, radar communications control equipment, equipment, electronic refrigeration compressors, fuel tanks, blowers and fans, pumps etc. Note: Special care must be taken to ensure that the required clearances are provided around the equipment and the RDS-X Mountings. Precautions must also be taken to ensure that cables, pipes and other connecting services do not interfere with the functioning of the mounting, and that these connections will not themselves be damaged by motion of the equipment under shock.

#### 2 inch



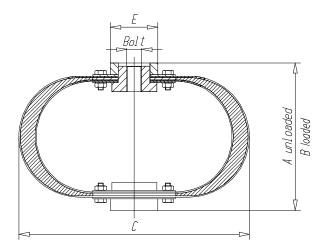


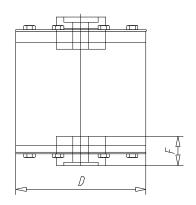


| Type | Nato Stock       | Rating | Supported  | Α    | В    | С    | D    | Е    | F    | Bolt | Weight |
|------|------------------|--------|------------|------|------|------|------|------|------|------|--------|
|      | Number           |        | mass range |      |      |      |      |      |      |      |        |
|      | (NSN)            | (kg)   | (kg)       | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |      | (kg)   |
| 5717 | 5340-99-923-5717 | 10     | 9 – 18     | 114  | 107  | 203  | 51   | 32   | 23   | M8   | 0.7    |
| 5718 | 5340-99-923-5718 | 20     | 18 – 35    | 114  | 106  | 203  | 51   | 32   | 23   | M8   | 0.8    |
| 5719 | 5340-99-923-5719 | 45     | 35 – 55    | 133  | 124  | 216  | 51   | 32   | 26   | M12  | 1.0    |
| 5720 | 5340-99-923-5720 | 70     | 55 – 90    | 133  | 124  | 216  | 51   | 32   | 26   | M12  | 1.1    |
| 5721 | 5340-99-923-5721 | 110    | 90 – 135   | 133  | 122  | 216  | 51   | 32   | 26   | M12  | 1.3    |

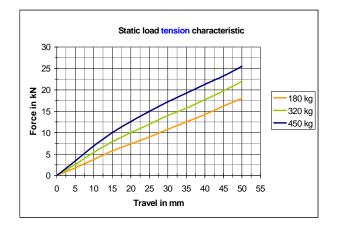


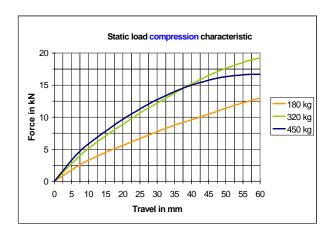
### 4 inch



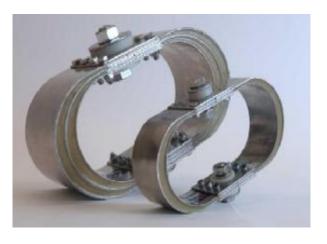


| Type | Nato Stock       | Rating | Supported  | Α    | В    | С    | D    | Е    | F    | Bolt | Weight |
|------|------------------|--------|------------|------|------|------|------|------|------|------|--------|
|      | Number           |        | mass range |      |      |      |      |      |      |      |        |
|      | (NSN)            | (kg)   | (kg)       | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |      | (kg)   |
| 8429 | 5340-99-520-8429 | 180    | 135 – 250  | 190  | 185  | 297  | 102  | 64   | 43   | M20  | 5.9    |
| 8428 | 5340-99-520-8428 | 320    | 250 – 380  | 190  | 186  | 297  | 102  | 64   | 43   | M20  | 6.6    |
| 8427 | 5340-99-520-8427 | 450    | 380 – 550  | 190  | 184  | 297  | 102  | 64   | 43   | M20  | 7.3    |











# **Technical details**

| Туре  |                  | 5717      | 5718      | 5719      | 5720      | 5721      | 8429       | 8428      | 8427      |
|---|------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
| Nominal load  |                  | 10        | 20        | 45        | 70        | 110       | 180        | 320       | 450       |
| Transmitted Acceleration  |                  |           |           |           |           |           |            |           |           |
| V = Vertical  | m/s²             | 150       | 150       | 150       | 150       | 150       | 150        | 150       | 150       |
| H <sub>s</sub> = Horizontal Across  | m/s²             | 150       | 150       | 150       | 150       | 150       | 150        | 150       | 150       |
| H <sub>r</sub> = Vertical Across  | m/s <sup>2</sup> | 50        | 50        | 50        | 50        | 50        | 50         | 50        | 50        |
| Natural frequency and shock natural frequency (Acceleration&Deceleration) |                  |           |           |           |           |           |            |           |           |
| V = Vertical  | Hz               | 6.50-8.50 | 6.50-8.50 | 7.50-8.50 | 6.50-8.50 | 7.00-8.50 | 9.50-13.00 | 8.00-9.50 | 7.50-9.50 |
| H <sub>a</sub> = Horizontal Across  | Hz               | 4.50-6.25 | 4.50-6.25 | 5.00-6.25 | 4.50-6.25 | 5.00-6.25 | 4.75-6.50  | 5.25-6.00 | 4.75-6.00 |
| H <sub>r</sub> = Vertical Across  | Hz               | 3.50-5.00 | 3.50-5.00 | 4.25-5.00 | 4.00-5.00 | 4.25-5.00 | 4.00-5.00  | 4.25-5.00 | 4.00-5.00 |
| Max. shock deflection   |                  |           |           |           |           |           |            |           |           |
| V = Vertical  | mm               | 60        | 60        | 60        | 60        | 60        | 60         | 60        | 60        |
| H <sub>a</sub> = Horizontal Across  | mm               | 40        | 40        | 40        | 40        | 40        | 40         | 40        | 40        |
| H <sub>r</sub> = Vertical Across  | mm               | 40        | 40        | 40        | 40        | 40        | 40         | 40        | 40        |
| Static stiffness  |                  |           |           |           |           |           |            |           |           |
| V = Vertical  | kN/m             | 13        | 26        | 44        | 70        | 120       | 350        | 500       | 875       |
| H <sub>a</sub> = Horizontal Across  | kN/m             | 17        | 35        | 58        | 91        | 149       | 665        | 788       | 1400      |
| H <sub>r</sub> = Vertical Across  | kN/m             | 7         | 14        | 24        | 39        | 61        | 175        | 219       | 385       |
| Dynamic stiffness   |                  |           |           |           |           |           |            |           |           |
| H <sub>r</sub> = Vertical Across  | kN/m             | 30        | 58        | 122       | 150       | 261       | 891        | 960       | 1221      |
| H <sub>s</sub> = Horizontal Across  | kN/m             | 30        | 58        | 122       | 150       | 261       | 891        | 960       | 1221      |
| H <sub>r</sub> = Vertical Across  | kN/m             | 9         | 14        | 39        | 57        | 96        | 158        | 271       | 347       |
| Dynamic factors   |                  |           |           |           |           |           |            |           |           |
| H <sub>r</sub> = Vertical Across  |                  | 2.3       | 2.2       | 2.8       | 2.1       | 2.2       | 2.5        | 1.9       | 1.4       |
| H <sub>s</sub> = Horizontal Across  |                  | 1.8       | 1.7       | 2.1       | 1.6       | 1.8       | 1.3        | 1.2       | 0.9       |
| H <sub>r</sub> = Vertical Across  |                  | 1.3       | 1.0       | 1.6       | 1.5       | 1.6       | 0.9        | 1.2       | 0.9       |
| Stiffness ratio   | н                |           |           |           |           |           |            |           |           |
| R <sub>a</sub> = Horizontal Across  |                  | 1.3       | 1.3       | 1.3       | 1.3       | 1.90      | 1.6        | 1.6       | 1.6       |
| R <sub>r</sub> = Horizontal Roll  |                  | 0.55      | 0.55      | 0.55      | 0.55      | 0.55      | 0.50       | 0.45      | 0.45      |
| Support stiffness   | kN/m             | 200       | 450       | 900       | 1300      | 2000      | 3500       | 6000      | 8500      |
| Support strength  | N                | 150       | 300       | 675       | 1050      | 1650      | 2700       | 4800      | 6750      |





### 2.5 Shock mounting type RDS-XM

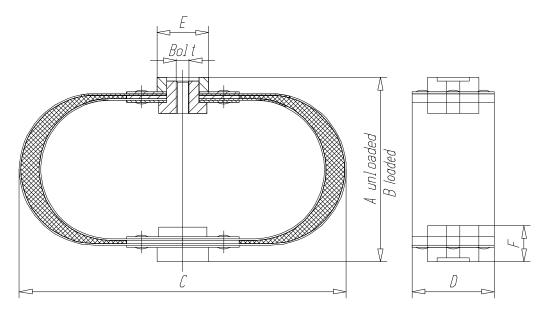
The RDS-XM mounting is an all-metal version of the RDS-X mounting, which will maintain its properties over a wider temperature range than the RDS-X mounting. RDS-XM mountings are essentially similar to the RDS-X mountings, utilising the same leaf spring assembly, except that the epoxy resin damping compound has been replaced by stainless steel mesh inserts.

Whereas the inclusion of the epoxy resin damping compound rendered the RDS-X mounting temperature sensitive (with optimum isolation efficiency at  $+15^{\circ}$  to  $+20^{\circ}$  C) the mesh inserts will operate over a range of  $-150^{\circ}$  to  $+400^{\circ}$  C with little change to the damping properties. In addition the RDS-XM has a reduction in natural frequency of the system.

The RDS-X and RDS-XM are the most space efficient of all shock mountings, having originally been developed for submarines. The

elliptical leaf spring assembly enables the RDS-X and RDS-XM to have at least +/- 60mm of displacement under vertical shock conditions, within their low overall height. In addition, they have +/- 40mm of displacement to provide friction damping. Some mountings, other than leaf springs, are often employed at  $45^{\circ}$  to the vertical in an effort to equalise the stiffness in all directions. This increases the overall space envelope.

The RDS-X mounting is part of the British 'Admirality' range of standardised mountings all NATO codified and made to Naval Engineering Standards. The RDS-XM utilises the same leaf springs and is intended to be directly interchangeable with the RDS-X mounting for extreme environmental conditions. The table below gives dimensional details of the range of RDS-XM mountings.



| Туре | Nato Stock<br>Number | Rating | Supported mass range | Α    | В    | С    | D    | E    | F    | Bolt | Weight |
|------|----------------------|--------|----------------------|------|------|------|------|------|------|------|--------|
|      | (NSN)                | (kg)   | (kg)                 | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |      | (kg)   |
|      | Not allocated        | 10     | 9 – 18               | 114  | 107  | 203  | 51   | 32   | 23   | M8   | 0.7    |
|      | Not allocated        | 20     | 18 – 35              | 114  | 106  | 203  | 51   | 32   | 23   | M8   | 0.8    |
|      | Not allocated        | 45     | 35 – 55              | 133  | 124  | 216  | 51   | 32   | 26   | M12  | 1.0    |
|      | Not allocated        | 70     | 55 – 90              | 133  | 124  | 216  | 51   | 32   | 26   | M12  | 1.1    |
|      | Not allocated        | 110    | 90 – 135             | 133  | 122  | 297  | 51   | 32   | 26   | M12  | 1.3    |
|      | Not allocated        | 180    | 135 – 250            | 190  | 185  | 297  | 102  | 64   | 43   | M20  | 5.9    |
|      | Not allocated        | 320    | 250 – 380            | 190  | 186  | 297  | 102  | 64   | 43   | M20  | 6.6    |
|      | Not allocated        | 450    | 380 - 550            | 190  | 184  | 297  | 102  | 64   | 43   | M20  | 7.3    |



### 2.6 Shock mountings type RDS-Y

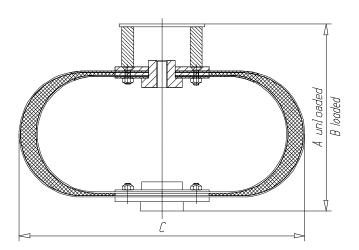
The mounting is a modified version of the type RDS-X mounting, developed by the Ministry of Defense to provide improved noise attenuation at higher frequencies. The essential improvement in noise attenuation is provided by precisely compounded rubber mouldings, forming the accelerator and decelerator units. These mouldings act as a high frequency isolator providing increased 'stealth' performance over the RDS-Xmounting.

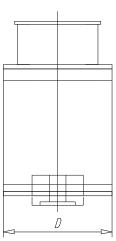
The RDS-Y mounting as a development of the RDS-X mounting gives similar shock but better vibration protection, compared with other mountings approved by the MOD for Naval use. Applications are similar to the RDS-X mounting with the same restricions on use applying to use in the ship's masthead region or after 1/8<sup>th</sup> of the ship's length. Special care must be taken to ensure that the required clearances are provided around the equipment. This is

necessary to reduce the risk of damage to motion of the mountings during shock. RDS-Y mountings have been used to reduce the vibration and noise transmitted through the ship's hull by such equipment as refrigeration compressors, air compressors, pumps, blowers and fans, engines etc.

The table below gives dimensional details of the range of RDS-Y mountings, which are based on the RDS-X mountings. There are eight load sizes with nominal loads ranging from 10 to 450 kg. These sizes fall into three groups dimensionally i.e. 10 20; 45 70 110; 180 320 450. Groups one and two are 51 mm wide with group three 102 mm wide.

The RDS-Y mounting can be delivered with two types fixing kits, consisting of bolts, washers and a distance piece.





| Type | Nato Stock       | Rating | Supported  | Α    | В    | С    | D    | Top Bolt | Bottom |
|------|------------------|--------|------------|------|------|------|------|----------|--------|
|      | Number           |        | mass range |      |      |      |      |          | Bolt   |
|      | (NSN)            | (kg)   | (kg)       | (mm) | (mm) | (mm) | (mm) |          |        |
| 9769 | 5340-99-778-9769 | 10     | 9 – 18     | 134  | 124  | 203  | 51   | M6       | M8     |
| 9770 | 5340-99-778-9770 | 20     | 18 – 25    | 134  | 124  | 203  | 51   | M6       | M8     |
| 9771 | 5340-99-778-9771 | 45     | 35 – 55    | 166  | 151  | 216  | 51   | M10      | M12    |
| 9772 | 5430-99-778-9772 | 70     | 55 – 75    | 166  | 151  | 216  | 51   | M10      | M12    |
| 9773 | 5430-99-778-9773 | 110    | 90 – 125   | 166  | 151  | 297  | 51   | M10      | M12    |
| 9774 | 5430-99-778-9774 | 180    | 135 – 250  | 228  | 219  | 297  | 102  | M16      | M20    |
| 9775 | 5430-99-778-9775 | 320    | 250 – 385  | 228  | 214  | 297  | 102  | M16      | M20    |
| 9776 | 5430-99-778-9776 | 450    | 380 – 500  | 228  | 214  | 297  | 102  | M16      | M20    |



## 2.7 Shock mountings type RDS-J

Suitable for shock mounting applications, where alignment with either equipment or ships structure need not be maintained after shock, and where vibration protection or isolation is not a requirement.

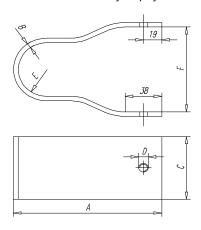
The mounted item may be displaced from its original position by plastic yielding of the mounts as a result of shock. But it may be possible to regain shock protection, as an emergency measure, by forcing the mounts back into their original shape.

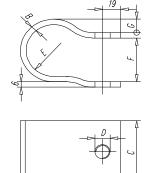
The J Mount is commonly employed for the shock protection of

robust electrical distribution equipment, including switch and control gear.

The J Mount is a curved metal strap designed to yield at a predetermined load in any direction under shock.

The mount is self-contained, needing no separate or additional associated devices (i.e. Decelerators). It is cost effective and requires little maintenance because its zinc plated surface protects it against corrosion. The J mount is an effective shock mount, with only minor shortcomings in deflection capabilities.







J Mount 'A' and J Deck Mounting

J Bulkhead Mounting

J mounts 'A' Range (metric)

| NATO             | Mount    | Mass       | Α    | В    | С    | D    | E    | F    |
|------------------|----------|------------|------|------|------|------|------|------|
| Stock Number     | Size No. | Range (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 5340-99-539-6795 | 03A      | 2 - 5      | 151  | 2    | 55   | M8   | 30   | 95   |
| 5340-99-539-6794 | 02A      | 5 - 10     | 152  | 3    | 55   | M8   | 30   | 95   |
| 5340-99-539-6793 | 01A      | 10 - 20    | 153  | 4    | 55   | M10  | 30   | 95   |
| 5340-99-533-2588 | 1A       | 20 - 35    | 154  | 5    | 70   | M10  | 30   | 95   |
| 5340-99-533-2589 | 2A       | 35 - 45    | 154  | 5    | 90   | M10  | 30   | 95   |
| 5340-99-533-2590 | 3A       | 45 - 60    | 155  | 6    | 85   | M12  | 30   | 95   |
| 5340-99-533-2591 | 4A       | 60 - 80    | 155  | 6    | 105  | M12  | 30   | 95   |
| 5340-99-533-2592 | 5A       | 80 - 115   | 157  | 8    | 95   | M16  | 30   | 95   |
| 5340-99-533-2593 | 6A       | 115 - 180  | 159  | 10   | 85   | M20  | 30   | 95   |

J Bulkhead mounts (metric)

| NATO             | Mount    | Mass       | Α    | В    | С    | D    | E    | F    | G    | Н    |
|------------------|----------|------------|------|------|------|------|------|------|------|------|
| Stock Number     | Size No. | Range (kg) | (mm) |
| 5340-99-533-2576 | 1        | 2 - 5      | 69   | 2    | 55   | M10  | 19   | 38   | 6    | 25   |
| 5340-99-533-2577 | 2        | 5 - 10     | 69   | 3    | 55   | M10  | 19   | 38   | 6    | 25   |
| 5340-99-533-2578 | 3        | 10 - 20    | 76   | 4    | 55   | M12  | 21   | 40   | 8    | 25   |
| 5340-99-533-2579 | 4        | 20 - 35    | 105  | 6    | 70   | M16  | 29   | 49   | 15   | 32   |
| 5340-99-533-2580 | 5        | 35 - 70    | 125  | 8    | 90   | M20  | 35   | 67   | 9    | 44   |
| 5340-99-533-2581 | 6        | 70 - 135   | 159  | 12   | 85   | M24  | 44   | 83   | 11   | 57   |

J Deck mounts (Original Range - metric)

| NATO             | Mount    | Mass       | Α    | В    | С    | D    | Е    | F    |
|------------------|----------|------------|------|------|------|------|------|------|
| Stock Number     | Size No. | Range (kg) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 5340-99-533-2582 | 1        | 20 - 35    | 116  | 5    | 45   | M10  | 19   | 64   |
| 5340-99-533-2583 | 2        | 35 - 45    | 116  | 5    | 55   | M10  | 19   | 64   |
| 5340-99-533-2584 | 3        | 45 - 60    | 117  | 6    | 55   | M12  | 19   | 64   |
| 5340-99-533-2585 | 4        | 60 - 80    | 117  | 6    | 70   | M12  | 19   | 64   |
| 5340-99-533-2586 | 5        | 80 - 115   | 119  | 8    | 65   | M16  | 19   | 64   |
| 5340-99-533-2587 | 6        | 115 - 180  | 121  | 10   | 65   | M20  | 19   | 64   |



### 2.8 Maintenance of the RDS-Mountings

- The life expectancy of the rubber elements will be approximately 20 years in ideal circumstances. Unfortunately ideal circumstances are not feasible, therefore the (working) life expectancy will be approx. 10 years. The life expectancy of the rubber elements is dependent on the environmental circumstances (weather influences, contaminants, etc).
- A visual inspection of the RDS-Mountings should be carried out six months after installation and should be repeated every year. For better recognition of damages you can use a blunt pin. The use of a screwdriver is not advisable, because of the damage it can cause to the conical mountings.
- The use of a natural rubber (NR) compound for the rubber elements means that they are not oil resistant. The occasional occurrence of oil-leaks does not effect the working of the conical mountings, because the oil will only damage the surface of the rubber elements. In case of oil contamination the rubber elements will show some signs of swelling.
- When cleaning the engine or the engine room with a solvent cleansing agent, it is advisable to cover up the RDS-Mountings. If the cleansing agent still contaminates the rubber elements, they should be cleaned als follows.

- Storage, cleaning and maintenance of the rubber elements should be done in accordance with DIN 7716. The cleaning of the RDS-Mountings should be done with a normal (household) cleansing agent. It is also advisable to use a glycerine-alcohol mixture (1:10). Do not use a solvent cleansing agent.
- In cases where it is necessary to replace the RDS-Mounting, we advise return of the RDS-Mounting to Rubber Design BV.
- If required, the RDS-mounting can be painted by the customer, Be aware that only the top- and base plate of the RDS-Mounting can be painted. Do not use paint on the rubber element as the rubber element might be contaminated and therefore be damaged.
- All deliveries are stored for over 20 years in a database including all relevant data and characteristics.