

# 22000 MOUNT



(1) Natural frequency:  
8 to 18 Hz

## DESCRIPTION

The 22000 mount is made of two parts of elastomer bonded to a central tube.

- Interior reinforced: cylindrical tube.
- Elastomer: chloroprene. Range of five different stiffnesses.

## OPERATION

The design of the 22000 mount gives the following basic characteristics.

- Elastomer element resistant to oils, supporting axial and radial loadings.
- Axial to radial stiffness of 1: 1.
- Absorb vibrations and reduce noise in all directions.

### Advantages:

- Good isolation against structural noises.
- Chloroprene resistant to oils.
- Simple and economical.
- Simple to fix.
- Five sizes for a load capacity under axial pressure from 15 to 2100 kg and under radial pressure until 650 kg.
- Anti-rebound effect when it is assembled with a washer.

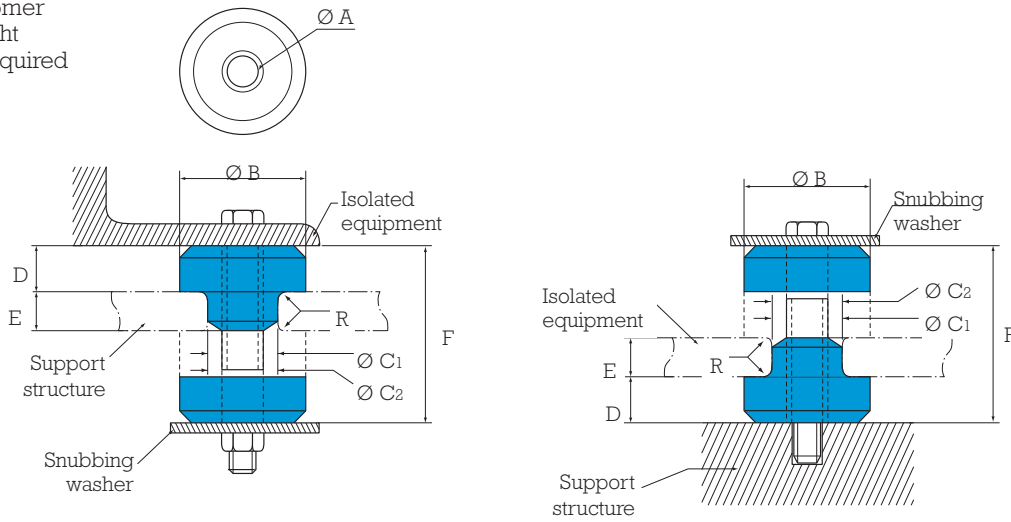
## APPLICATIONS

22000 mounts can be used in static or mobile applications, such as: pumps, compressors, generators, electronic equipment, HVAC equipment, engines with internal combustion, transmissions, plant cabs, radiators, etc.

(1) Natural frequencies with max/min loads, see: OPERATING CHARACTERISTICS.

# DIMENSIONS CHARACTERISTICS

C1:  $\varnothing$  mounting hole  
 C2:  $\varnothing$  elastomer  
 F: Free height  
 R: Radius required

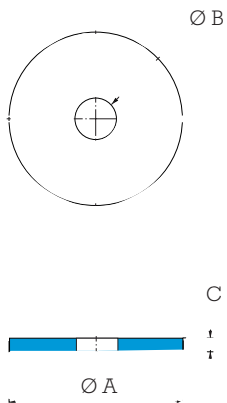


E: support structure thickness can be E1 or E2 depending on the required load and natural frequency (see technical chart next page)."

| Paulstra reference | Barry Controls* reference | $\varnothing A$ mm | $\varnothing B$ mm | $\varnothing C1$ mm | $\varnothing C2$ mm | D mm | E1 mm | E2 mm | F mm | R mm | Weight g |
|--------------------|---------------------------|--------------------|--------------------|---------------------|---------------------|------|-------|-------|------|------|----------|
| 530903 11 / 15     | 22001-11 / 15             | 10.4               | 33.2               | 19                  | 20.1                | 12.3 | 9.5   | 9.5   | 31.7 | 1    | 43       |
| 530903 21 / 25     | 22002-11 / 15             | 13.5               | 47.7               | 31.7                | 33                  | 19.8 | 14    | 12.5  | 49.2 | 1.5  | 142      |
| 530903 31 / 35     | 22003-11 / 15             | 16.7               | 64.8               | 38.1                | 40.1                | 22.8 | 22    | 19    | 61.7 | 2.3  | 313      |
| 530903 41 / 45     | 22004-11 / 15             | 23.8               | 88.9               | 57.1                | 58.4                | 25.4 | 28.5  | 25.5  | 73.1 | 3    | 670      |
| 530903 51 / 55     | 22005-11 / 15             | 27                 | 123.9              | 63.5                | 64.8                | 31.7 | 32    | 25.5  | 85.8 | 3    | 1306     |

See current price list for availability of items.

1 kg  $\approx$  1 daN



Zinc plated steel washers are recommended for the assembly of the mount.

They make it possible to carry out debouncing.

| PAULSTRA Reference* | Washer             |                    |      | Weight g |
|---------------------|--------------------|--------------------|------|----------|
|                     | $\varnothing A$ mm | $\varnothing B$ mm | C mm |          |
| 530903 11 / 15      | 39.6               | 10.3               | 2.2  | 24       |
| 530903 21 / 25      | 54.1               | 13.5               | 3.4  | 54       |
| 530903 31 / 35      | 71.3               | 16.7               | 4.7  | 140      |
| 530903 41 / 45      | 98.5               | 23.8               | 6.3  | 368      |
| 530903 51 / 55      | 133.3              | 27.0               | 9.5  | 991      |

\* References given as an indication.

# OPERATING CHARACTERISTICS

The maximum loadings depend on the compression of the assembly by comparing the thicknesses E1 and E2.

| Paulstra reference | Barry Controls* reference | Support structure thickness E1<br>Load per mount |            |       |       | Support structure thickness E2<br>Load per mount |            |       |       |
|--------------------|---------------------------|--|------------|-------|-------|--|------------|-------|-------|
|                    |                           | Axial daN  | Radial daN | Fo Hz | E1 mm | Axial daN  | Radial daN | Fo Hz | E2 mm |
| 530903 11          | 22001-11                  | 18   | 9          |       |       | 18   | 9          |       |       |
| 530903 12          | 22001-12                  | 40   | 13         |       |       | 40   | 13         |       |       |
| 530903 13          | 22001-13                  | 63   | 18         | 15    | 9.5   | 63   | 18         | 15    | 9.5   |
| 530903 14          | 22001-14                  | 113  | 22         |       |       | 113  | 22         |       |       |
| 530903 15          | 22001-15                  | 136  | 27         |       |       | 136  | 27         |       |       |
| 530903 21          | 22002-11                  | 59   | 22         |       |       | 27   | 18         |       |       |
| 530903 22          | 22002-12                  | 79   | 29         |       |       | 54   | 36         |       |       |
| 530903 23          | 22002-13                  | 109  | 40         | 12    | 14    | 72   | 56         | 15    | 12.5  |
| 530903 24          | 22002-14                  | 172  | 75         |       |       | 118  | 81         |       |       |
| 530903 25          | 22002-15                  | 286  | 127        |       |       | 172  | 127        |       |       |
| 530903 31          | 22003-11                  | 95   | 40         |       |       | 40   | 31         |       |       |
| 530903 32          | 22003-12                  | 159  | 63         |       |       | 68   | 47         |       |       |
| 530903 33          | 22003-13                  | 222  | 102        | 11    | 22    | 102  | 72         | 15    | 19    |
| 530903 34          | 22003-14                  | 390  | 175        |       |       | 147  | 111        |       |       |
| 530903 35          | 22003-15                  | 604  | 313        |       |       | 227  | 163        |       |       |
| 530903 41          | 22004-11                  | 122  | 61         |       |       | 68   | 50         |       |       |
| 530903 42          | 22004-12                  | 231  | 104        |       |       | 136  | 100        |       |       |
| 530903 43          | 22004-13                  | 350  | 156        | 10    | 28.5  | 181  | 136        | 15    | 25.5  |
| 530903 44          | 22004-14                  | 531  | 268        |       |       | 227  | 181        |       |       |
| 530903 45          | 22004-15                  | 954  | 443        |       |       | 272  | 263        |       |       |
| 530903 51          | 22005-11                  | 518  | 109        |       |       | 136  | 68         |       |       |
| 530903 52          | 22005-12                  | 877  | 154        |       |       | 227  | 100        |       |       |
| 530903 53          | 22005-13                  | 1172   | 277        | 10    | 32    | 318  | 136        | 15    | 25.5  |
| 530903 54          | 22005-14                  | 1609   | 404        |       |       | 409  | 213        |       |       |
| 530903 55          | 22005-15                  | 2072   | 640        |       |       | 545  | 300        |       |       |

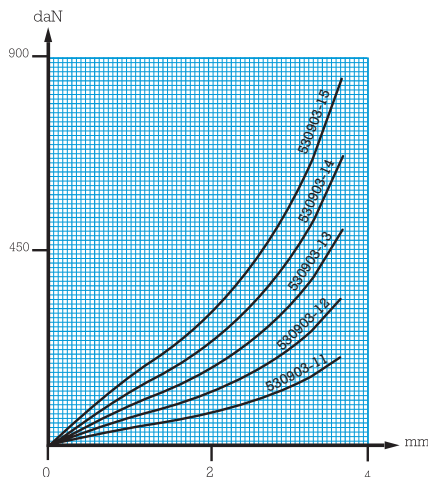
See current price list for availability of items.

1 kg  $\approx$  1 daN

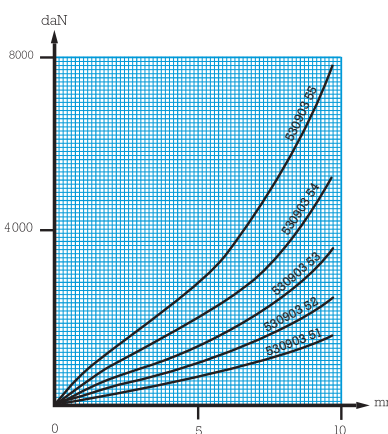
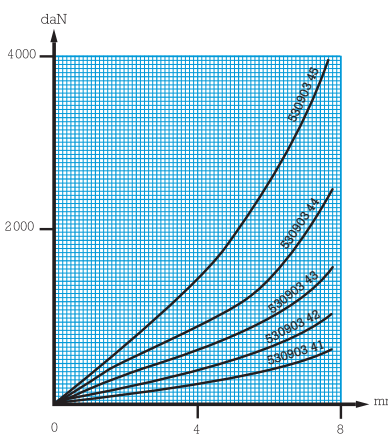
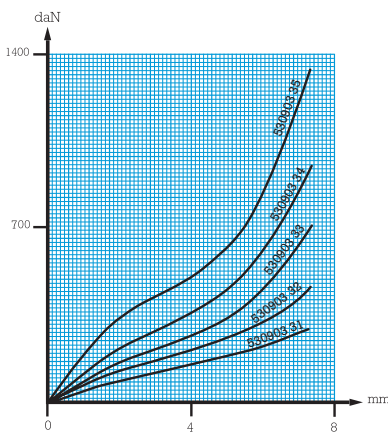
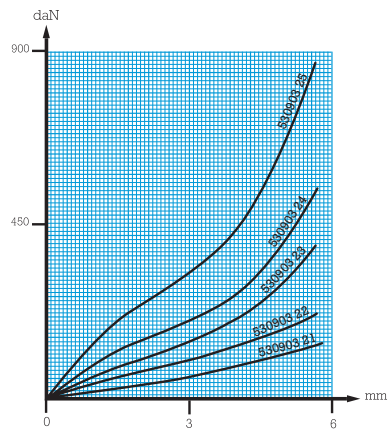
\* Barry Controls references are given as an indication..

## LOAD/DEFLECTION CURVES IN AXIAL COMPRESSION

### Assembly type E1 and E2



### Assembly type E1



### Assembly type E2

