

# MOUNT 22000

Natural frequency : (1)  
10 to 15 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 vibration and reduce noise in all directions.

### Advantages

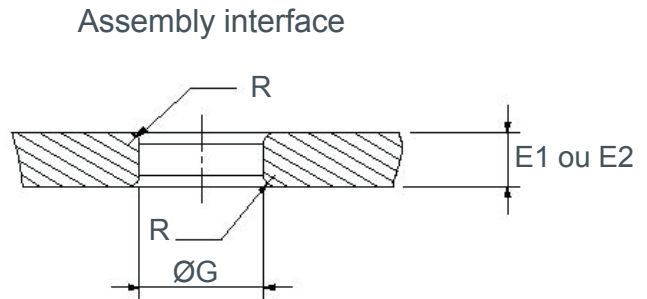
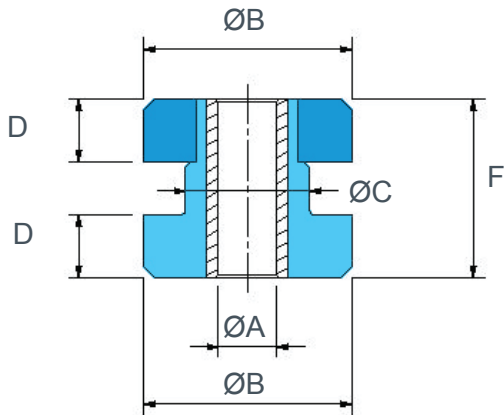
- Good isolation against structural noises.
- Chloroprene resistant to oils.
- Simple and economical.
- Simple to fix.
- Five sizes for a load capacity under axial pressure from 18 to 954 daN and under radial pressure until 443 daN
- Anti-rebound effect when it is assembled with a washer.

## APPLICATION

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) the indicated natural frequency, are valid for the maxi loads of the ranges of use quoted in the paragraph : TECHNICAL CHARACTERISTICS.

# DIMENSIONS CHARACTERISTICS

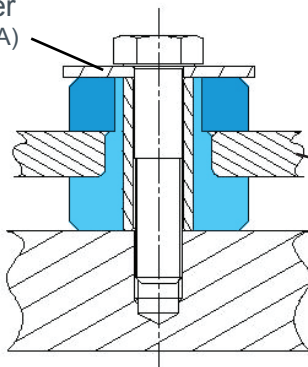


E : support structure thickness can be E<sub>1</sub> or E<sub>2</sub> depending on the required load and natural frequency (see technical chart next page).

| Reference Paulstra | Barry Control Reference | Ø A (mm) | Ø B (mm) | Ø C (mm) | D (mm) | F (mm) | Mounting hole |        | Weight (g) |
|--------------------|-------------------------|----------|----------|----------|--------|--------|---------------|--------|------------|
|                    |                         |          |          |          |        |        | Ø G (mm)      | R (mm) |            |
| 530903 11 to 15    | 22001-11 to 15          | 10,4     | 33,2     | 20,1     | 12,3   | 31,7   | 19            | 1      | 43         |
| 530903 21 to 25    | 22002-11 to 15          | 13,5     | 47,7     | 33       | 19,8   | 49,2   | 31,7          | 1,5    | 142        |
| 530903 31 to 35    | 22003-11 to 15          | 16,7     | 64,8     | 40,1     | 22,8   | 61,7   | 38,1          | 2,3    | 313        |
| 530903 41 to 45    | 22004-11 to 15          | 23,8     | 88,9     | 58,4     | 25,4   | 73,1   | 57,1          | 3      | 670        |
| 530903 51 to 55    | 22005-11 to 15          | 27       | 123,9    | 64,8     | 31,7   | 85,8   | 63,5          | 3      | 1 306      |

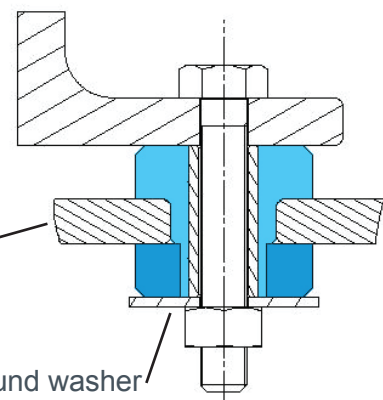
## ASSEMBLY

Anti-rebound washer  
(not supplied PAULSTRA)



Assembly interface

Anti-rebound washer  
(not supplied PAULSTRA)



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

They make it possible to carry out debouncing.

Material: S235 steel (E24) or equivalent with Rm = 340 MPa.

(not including PAULSTRA)

| Reference Paulstra | Anti-rebound washer* |          |        |
|--------------------|----------------------|----------|--------|
|                    | Ø a (mm)             | Ø b (mm) | e (mm) |
| 530903 11 to 15    | 39,6                 | 10,3     | 2,2    |
| 530903 21 to 25    | 54,1                 | 13,5     | 3,4    |
| 530903 31 to 35    | 71,3                 | 16,7     | 4,7    |
| 530903 41 to 45    | 98,5                 | 23,8     | 6,3    |

\* Not supplied

# OPERATING CHARACTERISTICS

The maximum loadings depend on the compression of the assembly by comparing the thicknesses  $E_1$  and  $E_2$ .

| Paulstra reference | Barry Control Reference | $E_1$                                      |              |         |            | $E_2$                                      |              |         |            | Colour marking |
|--------------------|-------------------------|--|--------------|---------|------------|--|--------------|---------|------------|----------------|
|                    |                         | Support structure thickness-Load per mount |              |         |            | Support structure thickness-Load per mount |              |         |            |                |
|                    |                         | Axial (daN)                                | Radial (daN) | Fo (Hz) | $E_1$ (mm) | Axial (daN)                                | Radial (daN) | Fo (Hz) | $E_2$ (mm) |                |
| 530903 11          | 22001- 11               | 18   | 9            |         |            | 18   | 9            |         |            | Red & White    |
| 530903 12          | 22001- 12               | 40   | 13           |         |            | 40   | 13           |         |            | Yellow & White |
| 530903 13          | 22001- 13               | 63   | 18           | 15      | 9,5        | 63   | 18           | 15      | 9,5        | Green & White  |
| 530903 14          | 22001- 14               | 113  | 22           |         |            | 113  | 22           |         |            | Blue & White   |
| 530903 15          | 22001- 15               | 136  | 27           |         |            | 136  | 27           |         |            | Purple & White |
| 530903 21          | 22002- 11               | 59   | 22           |         |            | 27   | 18           |         |            | Red & White    |
| 530903 22          | 22002- 12               | 79   | 29           |         |            | 54   | 36           |         |            | Yellow & White |
| 530903 23          | 22002- 13               | 109  | 40           | 12      | 14         | 72   | 56           | 15      | 12,5       | Green & White  |
| 530903 24          | 22002- 14               | 172  | 75           |         |            | 118  | 81           |         |            | Blue & White   |
| 530903 25          | 22002- 15               | 286  | 127          |         |            | 172  | 127          |         |            | Purple & White |
| 530903 31          | 22003- 11               | 95   | 40           |         |            | 40   | 31           |         |            | Red & White    |
| 530903 32          | 22003- 12               | 159  | 63           |         |            | 68   | 47           |         |            | Yellow & White |
| 530903 33          | 22003- 13               | 222  | 102          | 11      | 22         | 102  | 72           | 15      | 19         | Green & White  |
| 530903 34          | 22003- 14               | 390  | 175          |         |            | 147  | 111          |         |            | Blue & White   |
| 530903 35          | 22003- 15               | 604  | 313          |         |            | 227  | 163          |         |            | Purple & White |
| 530903 41          | 22004- 11               | 122  | 61           |         |            | 68   | 50           |         |            | Red & White    |
| 530903 42          | 22004- 12               | 231  | 104          |         |            | 136  | 100          |         |            | Yellow & White |
| 530903 43          | 22004- 13               | 350  | 156          | 10      | 28,5       | 181  | 136          | 15      | 25,5       | Green & White  |
| 530903 44          | 22004- 14               | 531  | 268          |         |            | 227  | 181          |         |            | Blue & White   |
| 530903 45          | 22004- 15               | 954  | 443          |         |            | 272  | 263          |         |            | Purple & White |
| 530903 51          | 22005- 11               | 518  | 109          |         |            | 136  | 68           |         |            | Red & White    |
| 530903 52          | 22005- 12               | 877  | 154          |         |            | 227  | 100          |         |            | Yellow & White |
| 530903 53          | 22005- 13               | 1 172                                      | 277          | 10      | 32         | 318  | 136          | 15      | 25,5       | Green & White  |
| 530903 54          | 22005- 14               | 1 609                                      | 404          |         |            | 409  | 213          |         |            | Blue & White   |
| 530903 55          | 22005- 15               | 2 072                                      | 640          |         |            | 545  | 300          |         |            | Purple & White |

See current price list for availability of items.

\* Barry Controls part numbers are shown as a reference only.

## LOAD/DEFLECTION CURVES IN AXIAL COMPRESSION

Support structure thickness  $E_1$  and  $E_2$

