# PAULSTRADYN ®

Natural frequency : (1)
- axial : 7 Hz
- radial : 3 to 5,5 Hz

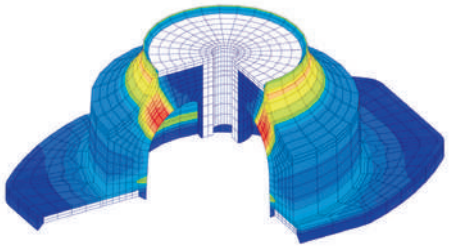



## ADVANTAGES

- Better than 90% isolation at 1.500 rpm (25 Hz).
- Constant height over wide load range.
- Stabilised characteristics during Service Life.
- Simple to fit.
- 500 hours protection against salt spray*.
- Design.

*When mounted according to the recommendations given in the catalogue.

**Resilient Element = SILTECH**
- Low increase of stiffness with frequency
- Low creep



Finite element modeling (FEM) was used when designing the Paulstradyn® series resulting in the lowest possible elastomer stresses and most efficient performance for a high deflection mount of this type.

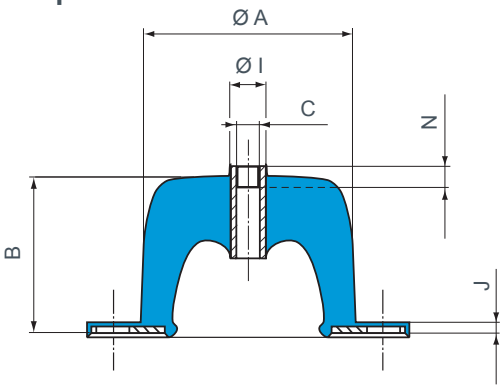
## APPLICATIONS

Antivibration isolation for static equipment :
- rotating machinery such as fans, air-conditioning, pumps, compressors, generator sets;
- pipeworks, ceilings, transformers, electrical enclosures.

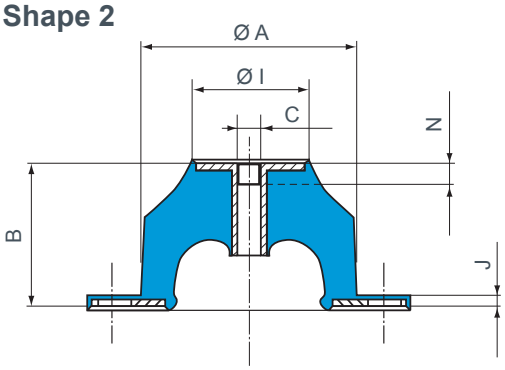
1) the indicated natural frequency, are valid for the maxi loads of the ranges of use quoted in the paragraph : TECHNICAL CHARACTERISTICS.

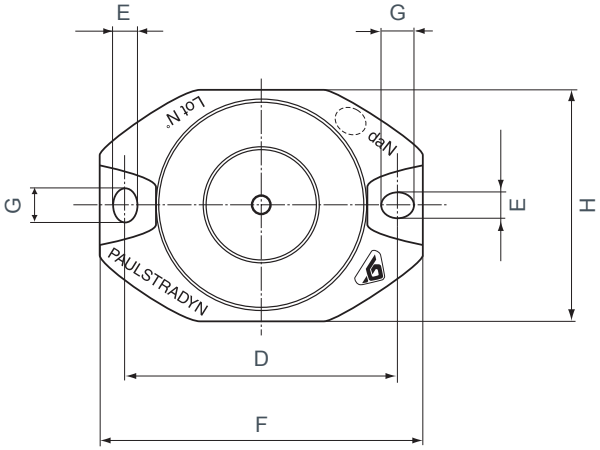
# DIMENSIONS CHARACTERISTICS

## Shape 1




## Shape 2




| Designation | Ref. | Nominal Load NL (daN) | Shape | Dimensions (mm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Ø A | B* | C | D | E | F | G | H | Ø I | J | N |
| Paulstradyn® 4 | **533701** | 4 | 1 | 40 | 40 | M6 | 52 | 6,2 | 64 | 6,2 | 44 | 12 | 2,5 | 6 |
| 7 | **533702** | 7 | | | | | | | | | | | | |
| 12 | **533703** | 12 | | | | | | | | | | | | |
| Paulstradyn® 20 | **533704** | 20 | 2 | 60 | 40 | M6 | 76 | 6,2 | 90 | 8,2 | 64 | 31 | 2,5 | 6 |
| 30 | **533705** | 30 | | | | | | | | | | | | |
| 50 | **533706** | 50 | | | | | | | | | | | | |
| Paulstradyn® 70 | **533707** | 70 | 2 | 80 | 40 | M8 | 100 | 8,2 | 122 | 12,2 | 84 | 48 | 2,5 | 12 |
| 100 | **533708** | 100 | | | | | | | | | | | | |
| 130 | **533709** | 130 | | | | | | | | | | | | |
| Paulstradyn® 160 | **533710** | 160 | 2 | 100 | 40 | M10 | 124 | 10,2 | 152 | 16,2 | 104 | 68 | 3 | 10 |
| 200 | **533711** | 200 | | | | | | | | | | | | |
| 260 | **533712** | 260 | | | | | | | | | | | | |
| Paulstradyn® 325 | **533713** | 325 | 2 | 150 | 40 | M12 | 182 | 12,2 | 214 | 20,2 | 154 | 116 | 4,5 | 10 |
| 400 | **533714** | 400 | | | | | | | | | | | | |
| 500 | **533715** | 500 | | | | | | | | | | | | |
| Paulstradyn® 640 | **533716** | 640 | 2 | 200 | 40 | M16 | 240 | 14,2 | 280 | 24,2 | 204 | 159 | 5,5 | 20 |
| 820 | **533717** | 820 | | | | | | | | | | | | |
| 1050 | **533718** | 1050 | | | | | | | | | | | | |
| 1350 | **533719** | 1350 | | | | | | | | | | | | |

* Height, unloaded 40 mm, under load 32 mm (see Technical Characteristics).
NL : Nominal static load with mounting under axial compression.

# TECHNICAL CHARACTERISTICS

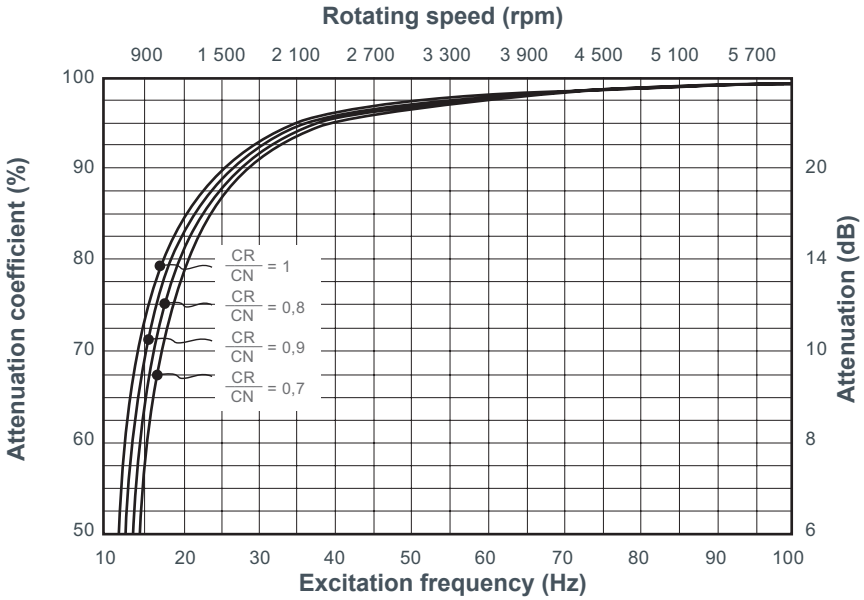
The vibration attenuation and height characteristics under nominal loads are **stabilised after one month under a load at 20°C.**

## General characteristics

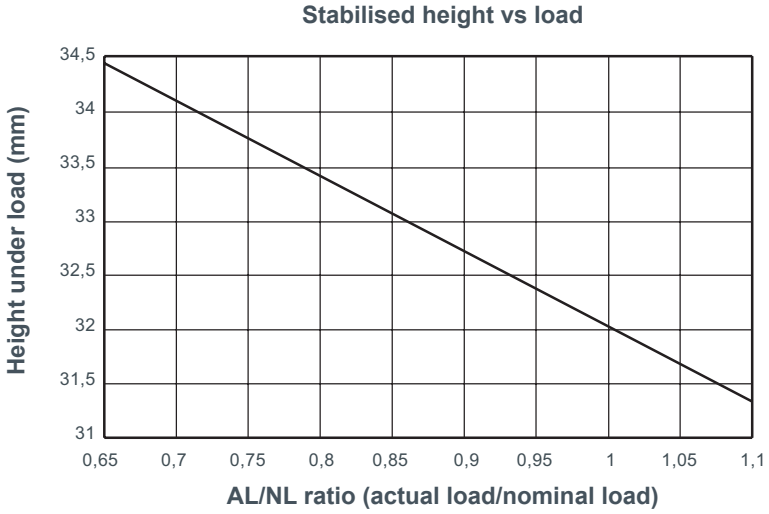
- Natural axial frequency : 7 Hz, with nominal load.
- Natural radial frequency : 3 to 5.5 Hz.
- Maximum displacement :
  - axial : 12 mm
  - radial : ± 10 mm.

### Vibration attenuation

$\frac{AL}{NL}$ = Ratio $\frac{\text{actual load}}{\text{nominal load}}$




### Height under load




| | |
|---|---|
| Temperature | Operating temperature : - 20 °C to + 70 °C. |
| Other characteristics* | Good dynamic performance at high frequency<br>Withstand fatigue and shocks.<br>Reduced creep. |

* Detailed Technical Characteristics can be sent on request. Ask us for details.

# MOUNTING

## Standard Mounting

❶machine base or foot dimensions > Ø M*

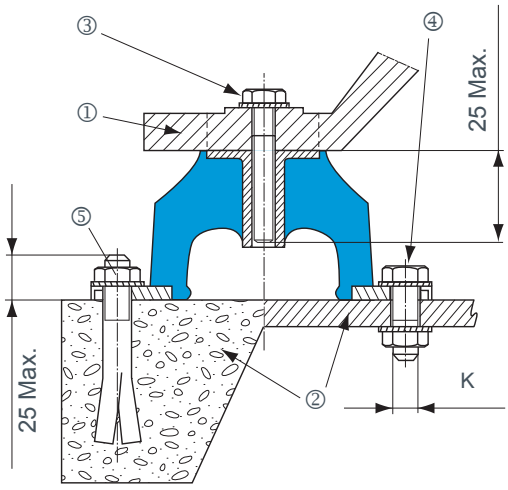
❷supporting structure (floor) dimensions > base of mounting F*

❸screw Ø C**

❹screw HM Ø K, a washer is required between the screw head and the PAULSTRADYN®**

❺screw Ø K, a washer is required between the screw head and the PAULSTRADYN®**

* to ditribute the load and resist corrosion.
** nuts and screws grade 4.6 minimum.



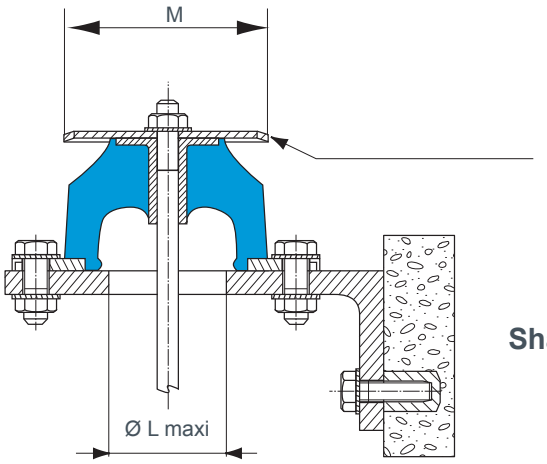

**Shape 1**

## Recommanded torque

| Diameter K (mm) | M6 | M8 | M10 | M12 |
|---|---|---|---|---|
| Torque N.m | 2 | 5 | 12 | 20 |

**Note :** Do not paint the mountings after fitting.

## Alternative mounting




**Shape 2**

## Mounting and cap references

| Paulstradyn® references | Dimensions (mm) | | | Protective cap reference (optional) |
|---|---|---|---|---|
| | K Shape 1 | L max. shape 2 | M min. shape 2 | |
| **533701, 533702, 533703,** | M5 | 27 | 14 | **342919** |
| **533704, 533705, 533706** | M5 | 40 | 34 | **342356** |
| **533707, 533708, 533709** | M6 | 46 | 50 | **342733** |
| **533710, 533711, 533712** | M8 | 47 | 70 | **342734** |
| **533713, 533714, 533715** | M10 | 99 | 118 | **342353** |
| **533716, 533717, 533718** | M12 | 127 | 162 | **342354** |
| **533719** | | | | |