



## Description

The body is made from an extruded stove enamelled aluminium section and fitted with hard coated aluminium end plates having right and left hand threads, these should only be removed using the correct size face spanner.

Vibration is produced by the centrifugal force of the positive and negative unbalanced moments in the rotor. The rotor is supported on two heavy duty pre-lubricated matched sealed bearings. A special high performance grease ensures a long working life.

The inner and outer raceways of the bearings are designed so that the bearings can easily be removed without using special tools.

Maximum temperature 120°C = 250°F

Noise level range 60 to 75 dBA

## Application

The GT range of turbine vibrators are particularly suitable for use in the Food and Pharmaceutical industries where exhaust contaminated with oil is unacceptable. No lubrication is required, but clean filtered air is essential.

These vibrators are extremely quiet and produce low noise levels on most applications, thus helping to conform with noise regulations.

## Stainless Steel

Models GT10, GT16, GT20 and GT25 are available in stainless steel especially suitable for the use in chemically hazardous applications.

## PNEUMATIC TURBINE VIBRATORS

**Model GT**

VIBRATECHNIQUES LTD

2 CHAPEL ROAD PORTSLADE  
BRIGHTON BN41 1PF  
ENGLAND

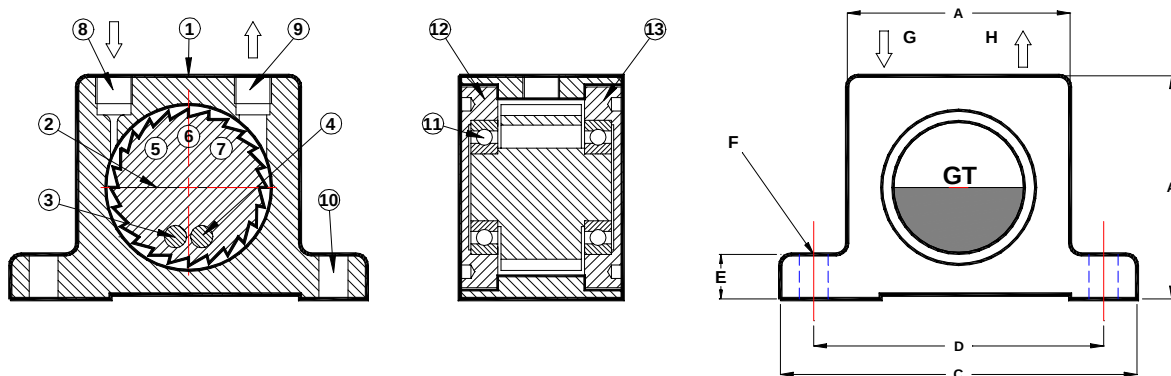
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# VIBTEC



- |                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| 1 Extruded aluminium alloy body       | 10 Base mounting holes                            |
| 2 Alu-Turbine wheel, hard coated      | 11 Special pre-lubricated matched sealed bearings |
| 3/4 High density mass positive moment |                                                   |
| 5/7 Cavities giving negative moment   | <b>Alu-Endplates, hard coated</b>                 |
| 8 Air inlet                           | 12 with left-hand thread                          |
| 9 Air exhaust                         | 13 with right-hand thread                         |

#### PERFORMANCE DATA

| Type  | Frequency V.P.M. |                 |                 | Centrifugal Force |               |            |               |            |               | Air Consumption/Minute |              |                |              |                |              |
|-------|------------------|-----------------|-----------------|-------------------|---------------|------------|---------------|------------|---------------|------------------------|--------------|----------------|--------------|----------------|--------------|
|       | 2 29<br>Bar PSI  | 4 58<br>Bar PSI | 6 87<br>Bar PSI | 2 Bar<br>N        | 29 PSI<br>LBS | 4 Bar<br>N | 58 PSI<br>LBS | 6 Bar<br>N | 87 PSI<br>LBS | 2 Bar<br>Litr.         | 29 PSI<br>CF | 4 Bar<br>Litr. | 58 PSI<br>CF | 6 Bar<br>Litr. | 87 PSI<br>CF |
| GT4   | 14000            | 15000           | 15000           | 135               | 30            | 180        | 40            | 200        | 44            | 33                     | 1.1          | 58             | 2            | 83             | 2.9          |
| GT6   | 11500            | 12000           | 12500           | 130               | 29            | 175        | 39            | 210        | 47            | 33                     | 1.1          | 58             | 2            | 83             | 2.9          |
| GT8   | 36000            | 42000           | 46000           | 563               | 126           | 766        | 172           | 919        | 206           | 46                     | 1.6          | 80             | 2.8          | 112            | 3.9          |
| GT10  | 27500            | 35000           | 37500           | 583               | 131           | 946        | 212           | 1086       | 243           | 46                     | 1.6          | 80             | 2.8          | 112            | 3.9          |
| GT10S | 17000            | 23000           | 25000           | 650               | 146           | 1350       | 303           | 2000       | 448           | 46                     | 1.6          | 80             | 2.8          | 112            | 3.9          |
| GT13  | 26000            | 30000           | 33000           | 1451              | 325           | 1932       | 433           | 2338       | 524           | 120                    | 4.2          | 200            | 7.0          | 290            | 10.2         |
| GT16  | 17000            | 21500           | 24000           | 1103              | 247           | 1764       | 396           | 2198       | 493           | 120                    | 4.2          | 200            | 7.0          | 290            | 10.2         |
| GT16S | 11500            | 15500           | 17000           | 1100              | 247           | 1900       | 426           | 2700       | 605           | 120                    | 4.2          | 200            | 7.0          | 290            | 10.2         |
| GT20  | 17000            | 20000           | 23000           | 2014              | 452           | 2787       | 625           | 3686       | 826           | 185                    | 6.6          | 325            | 11.4         | 455            | 15.9         |
| GT25  | 12000            | 15500           | 17000           | 1784              | 400           | 2977       | 667           | 3581       | 803           | 185                    | 6.6          | 325            | 11.4         | 455            | 15.9         |
| GT25S | 8500             | 11000           | 13000           | 2250              | 504           | 3600       | 807           | 4900       | 1098          | 185                    | 6.6          | 325            | 11.4         | 455            | 15.9         |
| GT30  | 13000            | 14000           | 16000           | 4603              | 1032          | 5339       | 1197          | 6073       | 1563          | 330                    | 11.5         | 530            | 18.5         | 745            | 26.0         |
| GT36  | 8000             | 10000           | 13000           | 3060              | 686           | 4781       | 1072          | 8080       | 1812          | 330                    | 11.5         | 530            | 18.5         | 745            | 26.0         |
| GT36S | 6100             | 7200            | 8300            | 4100              | 919           | 6200       | 1390          | 7500       | 1681          | 330                    | 11.5         | 530            | 18.5         | 745            | 26.0         |
| GT40  | 7700             | 8800            | 9500            | 4300              | 964           | 7300       | 1636          | 9800       | 2197          | 425                    | 15           | 700            | 24.7         | 970            | 34.2         |
| GT48  | 6000             | 7500            | 9700            | 4900              | 1098          | 7700       | 1726          | 10500      | 2354          | 425                    | 15           | 700            | 24.7         | 970            | 34.2         |
| GT48S | -                | 5600            | 6300            | -                 | -             | 7500       | 1681          | 12000      | 2690          | 425                    | 15           | 700            | 24.7         | 970            | 34.2         |

#### DIMENSIONS

| Type  | A   |      | B Width |      | C   |      | D   |      | E  |      | F Hole Dia. |      | G/H  | Weight |      |
|-------|-----|------|---------|------|-----|------|-----|------|----|------|-------------|------|------|--------|------|
|       | mm  | inch | mm      | inch | mm  | inch | mm  | inch | mm | inch | mm          | inch | BSP  | kg     | Lbs  |
| GT4   | 40  | 1.57 | 28      | 1.10 | 70  | 2.75 | 56  | 2.20 | 10 | 0.39 | 6           | 0.23 | 1/8" | .165   | .55  |
| GT6   |     |      |         |      |     |      |     |      |    |      |             |      |      | .250   | .37  |
| GT8   | 50  | 1.97 | 33      | 1.30 | 86  | 3.38 | 68  | 2.68 | 12 | 0.47 | 7           | 0.27 | 1/8" | .165   | .55  |
| GT10  |     |      |         |      |     |      |     |      |    |      |             |      |      | .255   | .56  |
| GT10S |     |      |         |      |     |      |     |      |    |      |             |      |      | .263   | .58  |
| GT13  | 65  | 2.56 | 42      | 1.65 | 113 | 4.45 | 90  | 3.54 | 16 | 0.63 | 9           | 0.35 | 1/4" | .565   | 1.24 |
| GT16  |     |      |         |      |     |      |     |      |    |      |             |      |      | .580   | 1.28 |
| GT16S |     |      |         |      |     |      |     |      |    |      |             |      |      | .614   | 1.35 |
| GT20  | 80  | 3.15 | 56      | 2.20 | 128 | 5.04 | 104 | 4.09 | 16 | 0.63 | 9           | 0.35 | 1/4" | 1.090  | 2.40 |
| GT25  |     |      |         |      |     |      |     |      |    |      |             |      |      | 1.120  | 2.46 |
| GT25S |     |      |         |      |     |      |     |      |    |      |             |      |      | 1.200  | 2.64 |
| GT30  | 100 | 3.94 | 73      | 2.87 | 160 | 6.30 | 130 | 5.12 | 20 | 0.79 | 11          | 0.43 | 3/8" | 2.200  | 4.85 |
| GT36  |     |      |         |      |     |      |     |      |    |      |             |      |      | 2.300  | 5.10 |
| GT36S |     |      |         |      |     |      |     |      |    |      |             |      |      | 2.530  | 5.57 |
| GT40  | 120 | 4.72 | 83      | 3.26 | 194 | 7.63 | 152 | 5.98 | 24 | 0.94 | 17          | 0.66 | 3/8" | 3.690  | 8.13 |
| GT48  |     |      |         |      |     |      |     |      |    |      |             |      |      | 3.890  | 8.57 |
| GT48S |     |      |         |      |     |      |     |      |    |      |             |      |      | 4.290  | 9.45 |

Data on a heavy laboratory block. Frequency and force will decrease on a less rigid mount.