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## **PNEUMATIC LINEAR VIBRATORS**

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### **MODEL FP**

- Linear Vibration
- Ideal for arduous conditions
- Force 34 N to 4270 N
- Frequency and amplitude adjustable independently
- Suitable for temperature up to 50 °C

On request can be supplied with ATEX certification

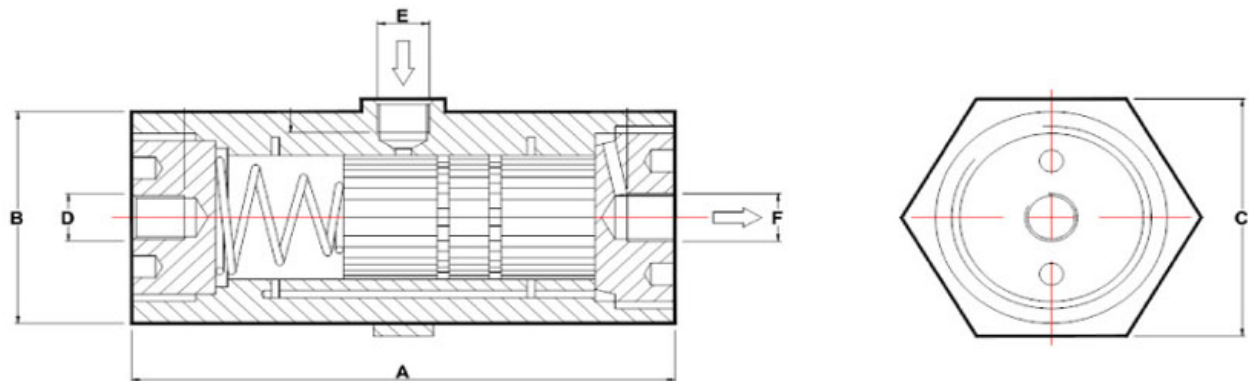
To ATEX 95 94/9/EC  II 2 G & D Zone 1, 2 & 21, 22

**CHICAGO VIBRATOR PRODUCTS**      1-800-842-7284  
**WESTMONT, IL 60559 USA**            1-630-920-9411  
**WWW/CHICAGOVIBRATOR.COM**

## PERFORMANCE DATA

| TYPE     | Frequency V.P.M. |                 |                 | Linear Force Measured |               |            |               |            |               | Air Consumption / Minute |               |               |               |               |               | Noise Level |            |
|----------|------------------|-----------------|-----------------|-----------------------|---------------|------------|---------------|------------|---------------|--------------------------|---------------|---------------|---------------|---------------|---------------|-------------|------------|
|          | 2 Bar<br>29 PSI  | 4 Bar<br>58 PSI | 6 Bar<br>87 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>CFM | 4 Bar<br>litr | 58 PSI<br>CFM | 6 Bar<br>litr | 87 PSI<br>CFM | Δ**<br>dB   | Δ***<br>dB |
| FP-12-S  | 6200             | 7800            | 9300            | 34                    | 7.7           | 70         | 16            | 92         | 21            | 0.8                      | 0.03          | 7.5           | 0.26          | 25            | 0.88          | 57-61       | N/A        |
| FP-12-M  | 5000             | 6000            | 6700            | 37                    | 7.7           | 58         | 13            | 74         | 17            | 0.5                      | 0.02          | 4             | 0.14          | 19            | 0.67          | 57-61       | N/A        |
| FP-12-L  | 4000             | 4800            | 5400            | 32                    | 7.2           | 58         | 13            | 81         | 18            | 1                        | 0.04          | 3             | 0.11          | 20            | 0.71          | 58-60       | N/A        |
| FP-18-S  | 5000             | 6400            | 7700            | 66                    | 15.0          | 134        | 30            | 187        | 42            | 5                        | 0.18          | 33            | 1.16          | 57            | 2.00          | 62-71       | N/A        |
| FP-18-M  | 4000             | 5000            | 5900            | 68                    | 15.0          | 134        | 30            | 188        | 42            | 4                        | 0.14          | 28            | 1.00          | 52            | 1.84          | 61-67       | N/A        |
| FP-18-L  | 3100             | 4000            | 4600            | 64                    | 14.0          | 150        | 34            | 206        | 46            | 5                        | 0.18          | 23            | 0.81          | 46            | 1.62          | 61-68       | N/A        |
| FP-25-S  | 3600             | 4300            | 5500            | 126                   | 28            | 270        | 61            | 416        | 94            | 13                       | 0.46          | 54            | 1.91          | 93            | 3.28          | 70-75       | 61-67      |
| FP-25-M  | 3000             | 3800            | 4200            | 142                   | 32            | 364        | 82            | 504        | 113           | 23                       | 0.81          | 50            | 1.76          | 87            | 3.07          | 73-75       | 62-66      |
| FP-25-L  | 2400             | 3100            | 3700            | 186                   | 42            | 392        | 88            | 594        | 134           | 18                       | 0.64          | 62            | 2.19          | 93            | 3.28          | 72-75       | 60-65      |
| FP-35-S  | 2800             | 4700            | 5800            | 294                   | 66            | 668        | 150           | 1038       | 234           | 23                       | 0.81          | 101           | 3.56          | 162           | 5.72          | 72-77       | 71-73      |
| FP-35-M  | 3000             | 4000            | 4600            | 248                   | 56            | 778        | 175           | 1080       | 243           | 24                       | 0.84          | 83            | 2.93          | 141           | 4.98          | 74-78       | 70-73      |
| FP-35-L  | 2400             | 3100            | 3600            | 282                   | 63            | 680        | 153           | 1066       | 240           | 38                       | 1.34          | 89            | 3.14          | 135           | 4.77          | 74-78       | 68-74      |
| FP-50-M* | 1850             | 2300            | 2800            | 490                   | 110           | 970        | 218           | 1600       | 360           | 48                       | 1.67          | 100           | 3.48          | 190           | 6.61          | 70-77       | N/A        |
| FP-60-M* | 1950             | 2400            | 2700            | 610                   | 137           | 1400       | 315           | 2170       | 489           | 90                       | 3.13          | 160           | 5.57          | 270           | 9.39          | 73-79       | N/A        |
| FP-95-M* | 1800             | 2400            | 2800            | 1500                  | 338           | 2620       | 590           | 4270       | 962           | 170                      | 5.91          | 320           | 11.13         | 450           | 15.65         | 85-92       | N/A        |

NOTE \*\* With customary silencer \*\*\* With 1/4" Free Flow Silencer



## DIMENSIONS

| TYPE     | A   |      | B   |      | C   |      | D<br>Metric<br>Thread | E<br>BSP<br>Thread | E1<br>BSP<br>Thread | F<br>BSP<br>Thread | Weight of Body |       | Weight of Piston |        | Total Weight |        |
|----------|-----|------|-----|------|-----|------|-----------------------|--------------------|---------------------|--------------------|----------------|-------|------------------|--------|--------------|--------|
|          | mm  | inch | mm  | inch | mm  | inch |                       |                    |                     |                    | kg             | lbs   | kg               | lbs    | kg           | lbs    |
| FP-12-S  | 71  | 2.80 | 31  | 1.22 | 34  | 1.34 | M8                    | 1/8"               | N/A                 | 1/8"               | 0.125          | 0.275 | 0.020            | 0.045  | 0.145        | 0.320  |
| FP-12-M  | 81  | 3.19 | 31  | 1.22 | 34  | 1.34 | M8                    | 1/8"               | N/A                 | 1/8"               | 0.140          | 0.309 | 0.030            | 0.066  | 0.170        | 0.375  |
| FP-12-L  | 94  | 3.70 | 31  | 1.22 | 34  | 1.34 | M8                    | 1/8"               | N/A                 | 1/8"               | 0.165          | 0.360 | 0.040            | 0.090  | 0.205        | 0.450  |
| FP-18-S  | 81  | 3.19 | 40  | 1.57 | 42  | 1.65 | M10                   | 1/8"               | N/A                 | 1/8"               | 0.220          | 0.485 | 0.060            | 0.135  | 0.280        | 0.620  |
| FP-18-M  | 94  | 3.70 | 40  | 1.57 | 42  | 1.65 | M10                   | 1/8"               | N/A                 | 1/8"               | 0.260          | 0.575 | 0.080            | 0.175  | 0.340        | 0.750  |
| FP-18-L  | 109 | 4.29 | 40  | 1.57 | 42  | 1.65 | M10                   | 1/8"               | N/A                 | 1/8"               | 0.300          | 0.660 | 0.110            | 0.240  | 0.410        | 0.900  |
| FP-25-S  | 98  | 3.86 | 48  | 1.89 | 50  | 1.97 | M12                   | 1/8"               | N/A                 | 1/4"               | 0.375          | 0.825 | 0.155            | 0.345  | 0.530        | 1.170  |
| FP-25-M  | 116 | 4.57 | 48  | 1.89 | 50  | 1.97 | M12                   | 1/8"               | N/A                 | 1/4"               | 0.435          | 0.955 | 0.215            | 0.475  | 0.650        | 1.430  |
| FP-25-L  | 136 | 5.35 | 48  | 1.89 | 50  | 1.97 | M12                   | 1/8"               | N/A                 | 1/4"               | 0.500          | 1.100 | 0.290            | 0.640  | 0.790        | 1.740  |
| FP-35-S  | 98  | 3.86 | 58  | 2.28 | 65  | 2.55 | M12                   | 1/4"               | N/A                 | 1/4"               | 0.530          | 1.168 | 0.315            | 0.694  | 0.845        | 1.862  |
| FP-35-M  | 116 | 4.57 | 58  | 2.28 | 65  | 2.55 | M12                   | 1/4"               | N/A                 | 1/4"               | 0.610          | 1.344 | 0.430            | 0.947  | 1.040        | 2.292  |
| FP-35-L  | 136 | 5.35 | 58  | 2.28 | 65  | 2.55 | M12                   | 1/4"               | N/A                 | 1/4"               | 0.700          | 1.543 | 0.530            | 1.278  | 1.280        | 2.281  |
| FP-50-M* | 154 | 6.07 | 84  | 3.31 | N/A | N/A  | N/A                   | 1/4"               | 1/4"                | 1/4"               | 1.750          | 3.858 | 1.500            | 3.307  | 3.250        | 7.165  |
| FP-60-M* | 154 | 6.07 | 94  | 3.70 | N/A | N/A  | N/A                   | 1/4"               | 3/8"                | 1/4"               | 2.100          | 4.629 | 2.150            | 4.740  | 4.250        | 9.369  |
| FP-95-M* | 156 | 6.15 | 140 | 5.52 | N/A | N/A  | N/A                   | 3/8"               | 3/8"                | N/A                | 4.500          | 9.921 | 4.900            | 10.802 | 9.400        | 20.723 |

\*NOTE The FP-50-M, FP-60-M and FP-90-M are supplied with square base plates (C) attached for alternative fixing using 4 off bolts instead of the M16 single stud. This increases the overall length by 19-20mm (H).

### Plate Dimensions are

FP-50-M 90 mm x 90 mm x 20 mm thick  
 FP-60-M 110 mm x 110 mm x 20 mm thick  
 FP-95-M 150 mm x 150 mm x 19 mm thick

4 Holes 8.8 mm dia. 72 mm x 72 mm pitch  
 4 Holes 8.8 mm dia. 90 mm x 90 mm pitch  
 4 Holes 13.0 mm dia. 124 mm x 124 mm pitch

