

**CORROSIVE ENVIRONMENT**  
**STAINLESS STEEL MESH**  
**FOR LOADS OF 60 TO 200 lbf (27 TO 90 kgf)**

**PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM**



**> MATERIAL:**

- Base Plate** - Mild Steel, Painted
- Spring** - High-Tensile Steel, Phosphated, Dyed Black
- Isolator** - Knitted Stainless Steel Mesh
- End Cap** - Cast Light Alloy

**> OPERATING TEMPERATURE:**

-94°F to +347°F (-70°C to +175°C)

**> APPLICATION:**

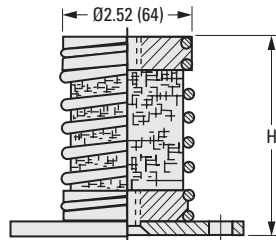
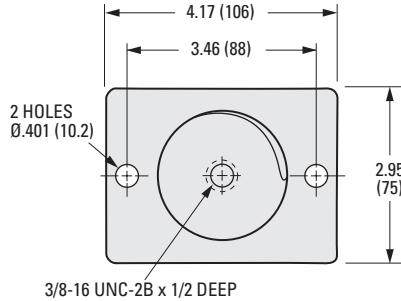
- Medium-Heavy Industrial Equipment
- Optical Equipment
- Laboratory Equipment

**> CHARACTERISTICS:**

Lateral to vertical stiffness approximately 1:1.  
 Elastic Limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$  .10 to .15.

**> MOUNTING:**

Must be loaded vertically through its axis.



**NOTE:** Dimensions in ( ) are mm.

**INCH COMPONENT**

Catalog Number	Static Load Range		Natural Frequency Hz	H - Height			
				Free		Max. Load	
				in.	mm	in.	mm
A10Z30-2273	60 - 90	27 - 40	2 2-1/2	5.7	145	3	76
A10Z30-2274	90 - 135	40 - 61	2 2-1/2	5.7	145	3	76
A10Z30-2275	135 - 200	61 - 90	2 2-1/2	5.7	145	3	76

- I
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- 6
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- 8**
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

**CORROSIVE ENVIRONMENT**  
**STAINLESS STEEL MESH**  
**FOR LOADS OF 150 TO 750 lbf (68 TO 340 kgf)**

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**› MATERIAL:**  
**Mounting Plates** - Mild Steel, Painted  
**Springs** - High-Tensile Steel, Phosphated, Dyed Black  
**Isolators** - Knitted Stainless Steel Mesh

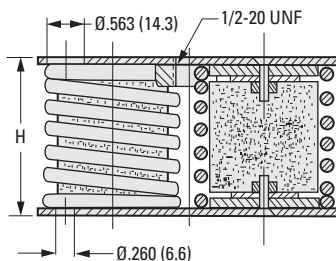
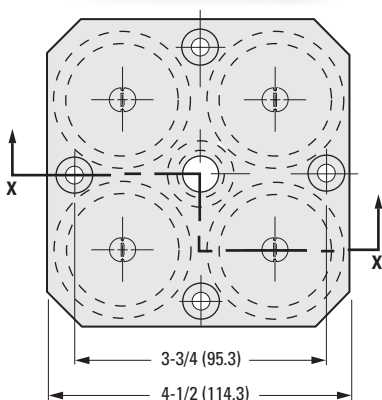


**› OPERATING TEMPERATURE:**  
 -94°F to +347°F (-70°C to +175°C)

**› APPLICATIONS:**  
 Heavy Loads  
 Compressors  
 Pumps  
 Grain Vibrators

**› CHARACTERISTICS:**  
 Lateral to vertical stiffness approximately 1:1.  
 Elastic limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$ .15 to .20.

**› MOUNTING:**  
 Must be loaded vertically through its axis.



**SECTION X-X**

**NOTE:** Dimensions in ( ) are mm.

**INCH COMPONENT**

Catalog Number	Static Load Range		Natural Frequency Hz	H - Height			
				Free		Max. Load	
	lbf	kgf		in.	mm	in.	mm
A10Z31-2461	150 – 260	68 – 118	4 4-1/2	3.0	76.2	2.378	60.4
A10Z31-2462	250 – 450	113 – 205	4 4-1/2	3.0	76.2	2.378	60.4
A10Z31-2463	440 – 750	200 – 340	4 4-1/2	3.0	76.2	2.378	60.4

► **INDUSTRIAL AND MARINE APPLICATIONS:**

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The following table gives recommended isolation efficiency in relation to site configuration and driving motor power. If site configuration is not known, assume for basement condition. Transfer the recommended efficiency to the transmissibility curves on the graph.



► **EXAMPLE:**

Project a line from the efficiency required on the right-hand side to intersect the performance lines 1008, 1006 and 1004. Project those intersections down to obtain the two dimensionless ratios (R) for the three mountings. Divide the lowest running speed (Hz) of the complete machine by R to give the natural frequency  $f_n$  required. Compare  $f_n$  with the actual natural frequency ( $f_n$ ) of the mounting concerned. If  $f_n$  fits into the  $f_n$  band of the mounting, select that mounting. If two mountings meet the above conditions, select the one with higher  $f_n$ ; it will be more stable.

A fan turning at 980 rpm (16.3 Hz) driven by a 7 kw motor running at 1470 rpm, which is to be installed on an upper floor of light construction:

Recommended efficiency = 93%

first projection gives R = 5.5 for 1008

$$\text{and from } f_n = \frac{f}{R}, f_n = \frac{16.3}{5.5} = 2.96 \text{ Hz}$$

discard 1008 as it has  $f_n = 9$  to 7 Hz

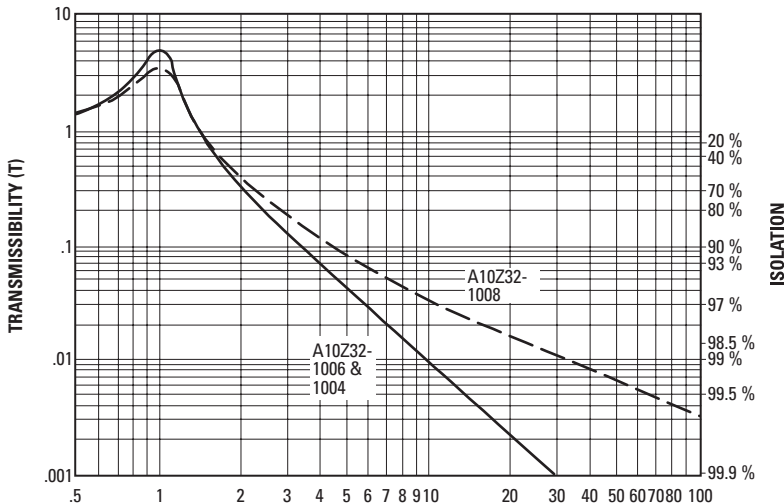
second projection gives R = 4 for 1006 & 1004

$$\text{again } f_n = \frac{16.3}{4} = 4.08 \text{ Hz}$$

which fits 1004,  $f_n = 5$  to 3 Hz

Now, all that remains is to place sufficient 1004 series mountings under the machine to support its weight evenly.

Driving Motor, kW	Recommended Isolation Efficiency:		
	Basement or Ground Floor	Upper Floor Heavy Construction	Upper Floor Light Construction
Up to 4	—	50%	90%
4 – 10	50%	75%	93%
10 – 30	80%	90%	95%
30 – 75	90%	95%	97.5%
75 – 225	95%	97%	98.5%



$$(R) \text{ FREQUENCY RATIO} = \frac{f}{f_n} = \frac{\text{ROTATION SPEED OF MACHINERY (Hz)}}{\text{MOUNTING NATURAL FREQUENCY (Hz)}}$$

CORROSIVE ENVIRONMENT  
 STAINLESS STEEL MESH  
 FOR LOADS OF 66 TO 1235 lbf (30 TO 560 kgf)

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► MATERIAL:

- Mounting Plate - Mild Steel, Painted
- Spring - High-Tensile Steel, Phosphated, Dyed Black
- Isolator - Knitted Stainless Steel Mesh

► OPERATING TEMPERATURE:

-94°F to +347°F (-70°C to +175°C)

► APPLICATIONS:

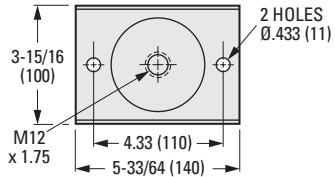
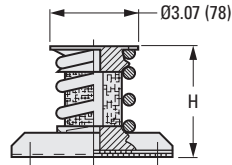
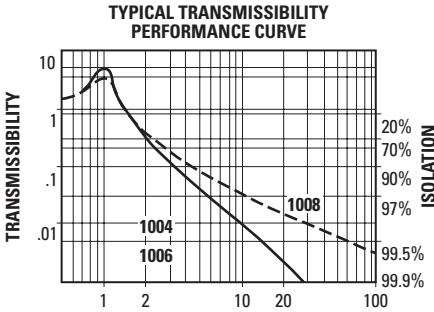
- Heavy Loads
- Compressors
- Pumps
- Grain Vibrators

► CHARACTERISTICS:

Lateral to vertical stiffness approximately 1:1.  
 Elastic Limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$ .15 to .20.

► MOUNTING:

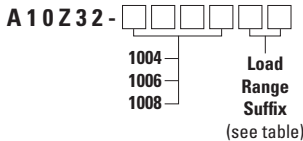
Must be loaded vertically through its axis.



NOTE: Dimensions in ( ) are mm.

$$\text{RATIO} = \frac{\text{FORCING FREQUENCY}}{\text{NATURAL FREQUENCY}}$$

**INCH COMPONENT CATALOG NUMBER**



Catalog Number (Less Suffix)	H Free	H Loaded	Natural Frequency Hz	Equivalent Static Deflection
A10Z32-1004..	5.67 (144)	4.88 (124)	3 - 5	.394 - 1.181 (10 - 30)
A10Z32-1006..	3.70 (94)	3.46 (88)	5 - 7	.197 - .394 (5 - 10)
A10Z32-1008..	3.70 (94)	3.46 (88)	7 - 9	.118 - .197 (3 - 5)

Load Range Suffix	Static Load Range					
	A10Z32-1004..		A10Z32-1006..		A10Z32-1008..	
	lbf	kgf	lbf	kgf	lbf	kgf
11	165 - 243	75 - 110	66 - 110	30 - 50	88 - 187	40 - 85
12	209 - 287	95 - 130	110 - 176	50 - 80	143 - 246	65 - 125
13	276 - 353	125 - 160	176 - 275	80 - 125	243 - 419	110 - 190
14	353 - 507	160 - 230	276 - 430	125 - 195	386 - 595	175 - 270
15	463 - 683	210 - 310	430 - 683	195 - 310	551 - 882	250 - 400
16	661 - 926	300 - 420	683 - 926	310 - 420	794 - 1235	360 - 560

CORROSIVE ENVIRONMENT

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STAINLESS STEEL MESH

FOR LOADS OF 860 TO 2469 lbf (390 TO 1120 kgf)



**> MATERIAL:**

- Mounting Plate** - Mild Steel, Painted
- Springs** - High-Tensile Steel, Phosphated, Dyed Black
- Isolator** - Knitted Stainless Steel Mesh

**> OPERATING TEMPERATURE:**

-94°F to +347°F (-70°C to +175°C)

**> APPLICATIONS:**

- Heavy Loads
- Compressors
- Pumps
- Grain Vibrators

**> CHARACTERISTICS:**

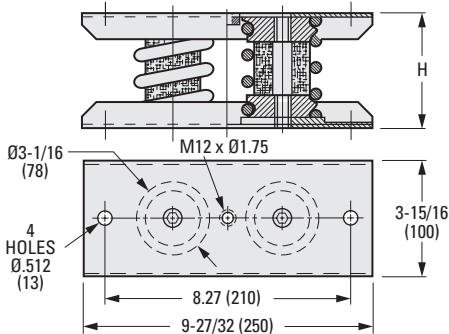
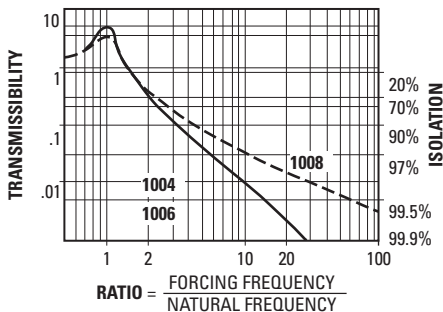
Lateral to vertical stiffness approximately 1:1. Elastic limit corresponds to a maximum load in compression of .042 oz. (1.2 g) and radially .007 oz. (0.2 g). Damping factor  $c/c_0$  .15 to .20.

**> MOUNTING:**

Must be loaded vertically through its axis.

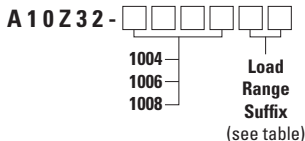


TYPICAL TRANSMISSIBILITY PERFORMANCE CURVE



NOTE: Dimensions in ( ) are mm.

**INCH COMPONENT CATALOG NUMBER**



Catalog Number (Less Suffix)	H Free	H Loaded	Natural Frequency Hz	Equivalent Static Deflection
A10Z32-1004..	5.82 (148)	5.04 (128)	3 - 5	.394 - 1.181 (10 - 30)
A10Z32-1006..	3.94 (100)	3.54 (90)	5 - 7	.197 - .394 (5 - 10)
A10Z32-1008..	3.94 (100)	3.54 (90)	7 - 9	.118 - .197 (3 - 5)

Load Range Suffix	Static Load Range					
	A10Z32-1004..		A10Z32-1006..		A10Z32-1008..	
	lbf	kgf	lbf	kgf	lbf	kgf
25	860 - 1367	390 - 620	860 - 1367	390 - 620	1102 - 1764	500 - 800
26	1323 - 1852	600 - 840	1367 - 1852	620 - 840	1587 - 2469	720 - 1120