

# CYLINDRICAL STUD MOUNT SERIES

## Features

- Reduce transmitted vibration from rotating or reciprocating machinery
- Reduce transmission of structure-borne noise
- Available in a wide range of load ranges
- Sturdy, reliable construction

## Benefits

- Economical
- Prevent shock and vibration damage to sensitive equipment

## Load Range

- 3 styles with load ratings to 260 lbs. per isolator

Versatile, low-cost, lightweight stud type mounts for vibration, shock, noise control, and motion accommodation.



Barry Stud Mounts are designed to support loads up to 260 lbs. per mount in compression and up to 70 lbs. in shear. Their simple design and sturdy construction permit their use in a wide variety of industrial applications. Available in 3 styles: (1) Double stud, (2) Stud/Insert, (3) Bumpers.

## Applications

- Fans
- Appliances
- HVAC equipment
- Electronic equipment
- Pumps, relays & control panels
- Blowers
- Bumpers

NATURAL FREQUENCY	7-28 Hertz
TRANSMISSIBILITY AT RESONANCE	8:1
RESILIENT ELEMENT	Neoprene & Natural Rubber
STANDARD MATERIALS	Low carbon steel

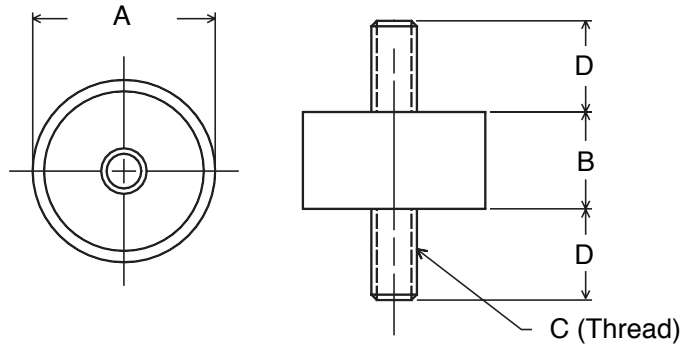
## Environmental Data

- Neoprene elastomer has an operating temperature range of -40°C to +93°C and is resistant to oils, most solvents and ozone.
- Natural Rubber elastomer has an operating temperature range of -30°C to +70°C.
- Other materials are available on special order to meet specific operating characteristics.

# Cylindrical Stud Mounts: Double Stud (Male/Male) Series

## Dimensions

Double Stud (Male/Male) Series  
Dimensional Drawing (Inches)



Part #	A	B	C	D	Compression		Shear		Material
					Max. Load (lbs.)	Natural Frequency (Hz)	Max. Load (lbs.)	Natural Frequency (Hz)	
A76-041	0.250	0.280	#4-40	0.190	1.0	9.0	2.0	8.0	Natural Rubber
A88-041	0.375	0.625	#8-32	0.375	2.0	20.0	5.0	18.0	Natural Rubber
A00-051	0.438	0.500	#8-32	0.375	10.3	14.0	5.5	10.0	Natural Rubber
A00-031	0.438	0.500	#8-32	0.375	4.8	14.0	2.5	9.0	Natural Rubber
A07-041	0.438	0.438	#6-32	0.250	4.0	13.5	1.0	12.0	Natural Rubber
A07-042	0.438	0.438	#8-32	0.250	4.0	13.5	1.0	12.0	Natural Rubber
A10-041	0.563	0.500	#8-32	0.375	14.0	12.5	7.0	11.0	Natural Rubber
A10-042	0.563	0.500	#10-32	0.375	14.0	12.5	7.0	11.0	Natural Rubber
A98-041	0.750	0.625	#10-32	0.375	18.0	11.0	3.0	9.5	Natural Rubber
A25-041	1.000	0.250	0.250-20	0.500	60.0	25.0	15.0	28.0	Natural Rubber
A20-041	1.000	0.500	0.250-20	0.750	60.0	14.0	20.0	10.0	Natural Rubber
A21-141	1.000	0.531	0.250-20	0.500	55.0	13.0	23.0	7.5	Neoprene
A22-071	1.000	0.750	0.250-20	0.625	90.0	14.0	50.0	10.0	Natural Rubber
A22-041	1.000	0.750	0.250-20	0.750	40.0	11.0	10.0	13.0	Natural Rubber
A22-141	1.000	0.750	0.250-20	0.500	50.0	10.0	14.0	7.5	Neoprene
A22-131	1.000	0.750	0.250-20	0.500	44.0	10.0	11.5	7.5	Neoprene
A22-062	1.000	0.750	0.312-18	0.750	70.0	12.0	35.0	10.0	Natural Rubber
A22-142	1.000	0.750	0.312-18	0.562	50.0	10.0	14.0	7.5	Neoprene
A22-053	1.000	0.750	6mm	0.500	60.0	10.0	33.0	8.0	Natural Rubber
A23-042	1.000	1.000	0.250-20	0.750	35.0	9.0	8.0	8.0	Natural Rubber
A23-041	1.000	1.000	0.312-18	0.625	35.0	9.0	8.0	8.0	Natural Rubber
A23-141	1.000	1.000	0.312-18	0.562	35.0	10.0	12.0	7.5	Neoprene
A32-151	1.250	0.750	0.312-18	0.562	98.0	10.0	31.0	7.5	Neoprene
A34-141	1.250	1.250	0.312-18	0.562	76.0	10.0	13.5	7.5	Neoprene
A43-042	1.375	1.000	0.375-16	0.750	70.0	12.0	40.0	9.0	Natural Rubber
A43-151	1.375	1.000	0.312-18	0.562	96.0	10.0	32.0	7.5	Neoprene
A53-061	1.500	1.000	0.375-16	1.000	150.0	9.0	40.0	6.5	Natural Rubber

For more information contact:

**BLACK DIAMOND**  
Products

5058 Cedar Ridges Lane RR#1  
Inverary, ON K0H-1X0

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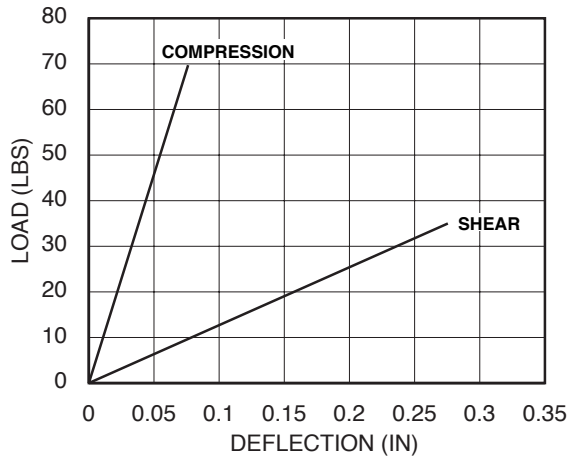
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# Cylindrical Stud Mounts: Double Stud (Male/Male) Series

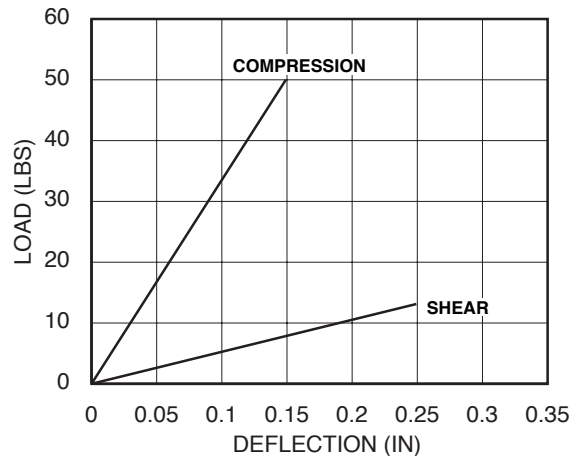
## Performance Characteristics

A21-141 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
23.0	7.5
18.5	8.0
12.5	10.0
9.5	12.0
7.0	13.0
4.0	17.0
3.0	20.0
<b>IN COMPRESSION</b>	
55.0	13.0
32.5	17.0
10.0	20.0

A23-141 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
12.0	7.0
10.5	7.5
8.5	8.0
5.7	10.0
4.5	12.0
3.5	13.0
2.3	17.0
1.0	20.0
<b>IN COMPRESSION</b>	
35.0	10.0
20.0	12.0
15.0	13.0
9.5	17.0
7.0	20.0

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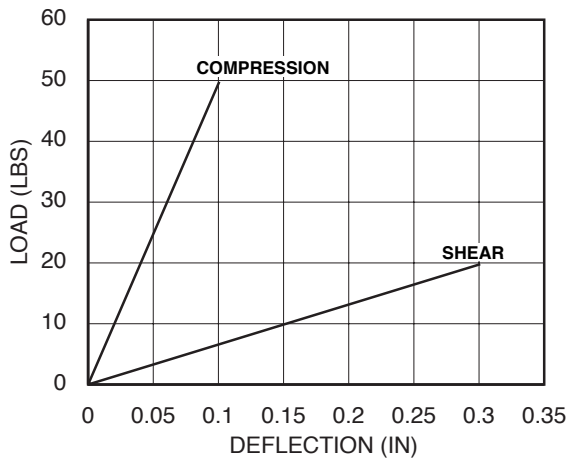
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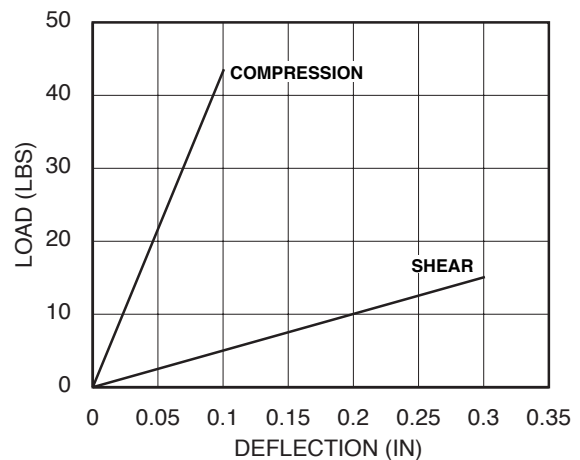
## Performance Characteristics

A22-142 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
14.0	7.0
10.0	9.0
6.0	14.0
2.0	22.0
<b>IN COMPRESSION</b>	
50.0	10.0
40.0	11.0
30.0	12.5
20.0	15.5
10.0	21.0

A22-131 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
11.5	7.5
7.2	8.0
6.0	10.0
4.5	12.0
3.3	13.0
2.0	17.0
1.5	20.0
<b>IN COMPRESSION</b>	
44.0	10.0
31.5	12.0
23.0	13.0
14.5	17.0
10.0	20.0

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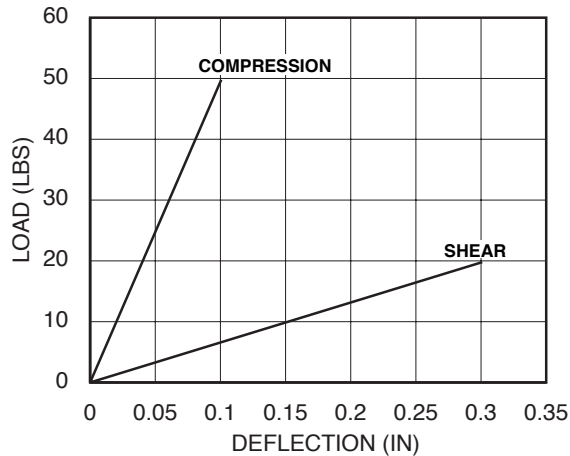
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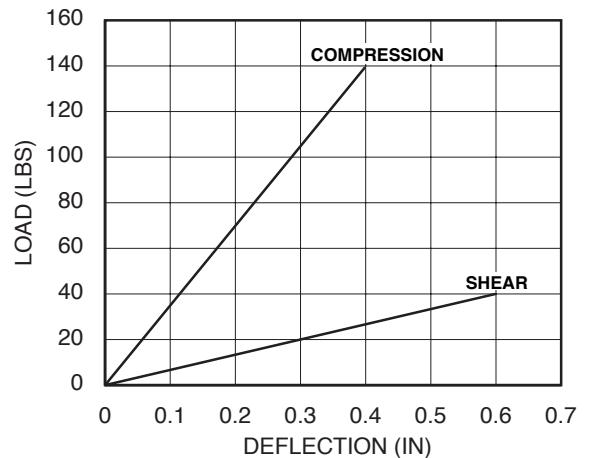
## Performance Characteristics

A22-141 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
14.5	7.5
11.5	8.0
8.0	10.0
5.7	12.0
4.5	13.0
3.0	
2.0	20.0
<b>IN COMPRESSION</b>	
50.0	10.0
35.5	12.0
25.5	13.0
16.5	17.0
12.5	20.0

A34-141 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
13.5	7.5
10.0	8.0
8.0	10.0
6.0	12.0
4.0	13.0
3.0	17.0
2.0	20.0
<b>IN COMPRESSION</b>	
76.0	8.0
42.0	10.0
31.0	12.0
23.0	13.0
15.0	17.0
10.0	20.0

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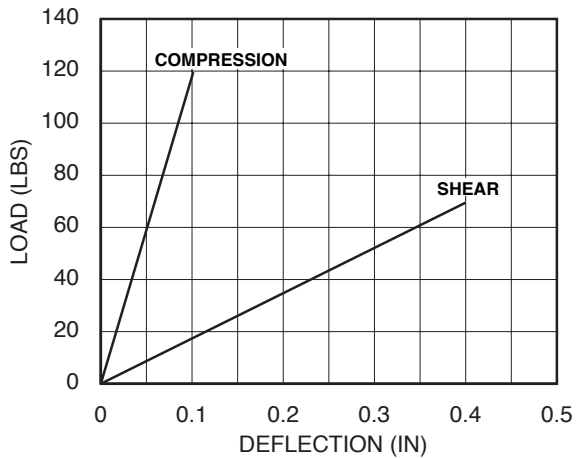
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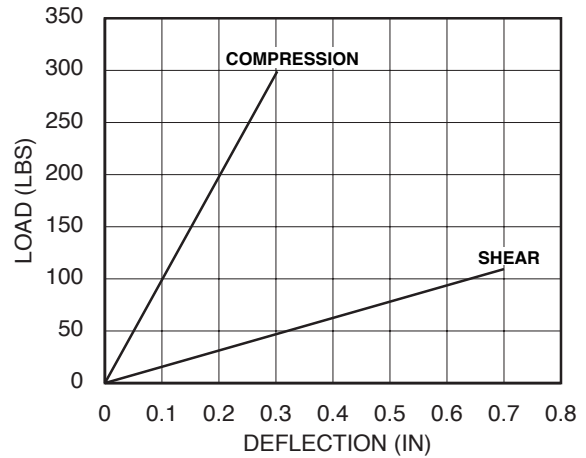
## Performance Characteristics

A32-151 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
31.0	7.5
24.0	8.0
16.5	10.0
12.0	12.0
9.0	13.0
6.0	17.0
5.0	20.0
<b>IN COMPRESSION</b>	
98.0	10.0
68.0	12.0
50.0	13.0
30.0	17.0
20.0	20.0

A43-151 Load vs Deflection



Static Load (lbs.)	Natural Frequency (Hertz)
<b>IN SHEAR</b>	
32.0	7.5
24.0	8.0
16.0	10.0
12.0	12.0
10.0	13.0
6.0	17.0
4.0	20.0
<b>IN COMPRESSION</b>	
96.0	10.0
68.0	12.0
48.0	13.0
32.0	17.0
24.0	20.0

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