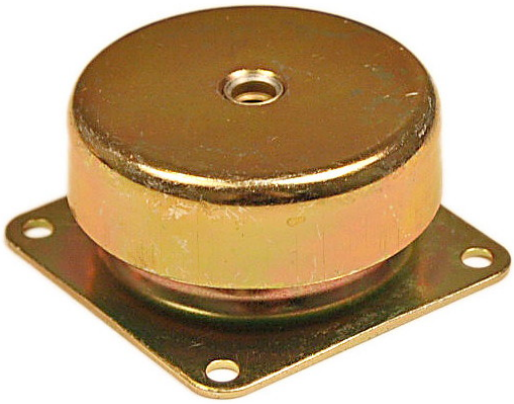
Polymer Technologies Inc.
Engineering Sound Solutions ™
Elastomeric Solutions Division

Technical Data Sheet
Materials Specifications For:

Size 1 Cupmount Series:1870



Attributes

- Fail-safe
- All-attitude design
- Compact, low profile design
- Easy to install
- High damped Silicone, Neoprene or Natural Rubber
- Zinc plated steel construction
- Can be used in tandem for higher deflection capability

Applications

- Shipboard equipment
- Mobile platforms
- Avionics
- Rack mounted systems
- Military radios
- Weapons system

Load Range

- 1870-1 = load ratings to 20 lbs./mount max.
- 1870-2 = load ratings to 30 lbs./mount max.
- 1870-3 = load ratings to 70 lbs./mount max.
- 1870-4 = load ratings to 100 lbs./mount max.

Shock & Vibe

- Attenuates a 10g, 11 millisecond half-sine shock to 2 g's
- Survives a 30g, 11 millisecond half-sine
- Passes MIL-STD-167 vibration

Specifications

- Natural Frequency—20-45 Hertz
- Transmissibility at resonance—4 max. (Hi-damp Silicone), 10 max. (Neoprene), 10 max. (Natural Rubber)
- Resilient Element—Hi-damp Silicone, Natural Rubber, Neoprene
- Standard materials—Zinc plated steel
- Weight—Size 1 = 6 oz.

Elastomeric Data

- High-Damp Silicone has an operating temperature of –67°F to +300°F (-55°C to +150°C) and is resistant to ozone, fungus and most solvents.
- Other elastomeric formulations are available in BUNA-N, Butyl, Polybutadiene and Neoprene.
- Neoprene has an operating range of -40°F to 200°F (-40°C to +93°C) and is used where oil immersion is present.
- Natural Rubber has an operating range of –25°F to +160°F (-37°C to +70°C) and is used in high dynamic amplitude environments.

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1870-1SA	1	20	8-14	1.17	Hi-Damp Silicone	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	4:1
1870-2SA	1	30	14-24	1.17	Hi-Damp Silicone	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	4:1
1870-3SA	1	70	24-38	1.17	Hi-Damp Silicone	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	4:1
1870-4SA	1	100	38-60	1.17	Hi-Damp Silicone	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	4:1
1870-1SB	1	20	8-14	1.17	Hi-Damp Silicone	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	4:1
1870-2SB	1	30	14-24	1.17	Hi-Damp Silicone	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	4:1
1870-3SB	1	70	24-38	1.17	Hi-Damp Silicone	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	4:1
1870-4SB	1	100	38-60	1.17	Hi-Damp Silicone	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	4:1

Part #	Size	Maximum Load (lbs.)	Load Range Shock lbs.	Free Height	Resilient Material	Structural Material	Core Style	Center Hole	Flange Holes	Transmissibility at Resonance Max.
1870-1NA	1	20	8-14	1.17	Neoprene	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-2NA	1	30	14-24	1.17	Neoprene	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-3NA	1	70	24-38	1.17	Neoprene	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-4NA	1	100	38-60	1.17	Neoprene	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-1NB	1	20	8-14	1.17	Neoprene	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1
1870-2NB	1	30	14-24	1.17	Neoprene	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1
1870-3NB	1	70	24-38	1.17	Neoprene	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1
1870-4NB	1	100	38-60	1.17	Neoprene	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1

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1870-1NRA	1	20	8-14	1.17	Natural Rubber	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-2NRA	1	30	14-24	1.17	Natural Rubber	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-3NRA	1	70	24-38	1.17	Natural Rubber	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-4NRA	1	100	38-60	1.17	Natural Rubber	Zinc Plated Steel	Threaded	1/4-20 UNC -2B	Ø.196	10:1
1870-1NRB	1	20	8-14	1.17	Natural Rubber	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1
1870-2NRB	1	30	14-24	1.17	Natural Rubber	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1
1870-3NRB	1	70	24-38	1.17	Natural Rubber	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1
1870-4NRB	1	100	38-60	1.17	Natural Rubber	Zinc Plated Steel	Thru Hole	Ø.266	Ø.196	10:1

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