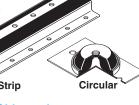
# MASON INDUSTRIES, Inc. Manufacturers of Vibration Control Products

2101 W. Crescent Ave., Suite D Anaheim, CA 92801 714/535-2727 FAX 714/535-5738 Info@MasonAnaheim.com 350 Rabro Drive Hauppauge, NY 11788 631/348-0282 FAX 631/348-0279 Info@Mason-Ind.com www.Mason-Ind.com www.MasonAnaheim.com

**DOUBLE DEFLECTION NEOPRENE MOUNT** 

**BULLETIN ND-26-1** 

Up until the 1950's most rubber mountings were designed to take the load in shear. Mountings were circular or sold in long strips, so the « capacity could be controlled by size and Strip durometer, or durometer **Older style mounts** and the cut off length.



Shear loading curves are straight line similar to steel springs. The deflection can be used directly in the frequency equation after dynamic stiffness correction. Unfortunately, shear mountings could and did fail because of bond failure between the rubber and metal. When overloaded. the mountings would bottom out. Compression mountings are less expensive for a given capacity and when overloaded, there is still a cushion. When loaded

conservatively, the load deflection curve is similar to the straight line shear. Exposed

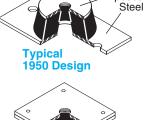
The general configuration of our N mountings was known, but all mountings were manufactured as at the right and seldom taller than 1". Both the base plate and the upper tapped washer were exposed and they corroded. As foolish as it seems now, we cemented a rubber pad to the baseplate to provide friction. Since greater efficiency can only be accomplished by increasing deflection, when double deflection was needed, two mountings were bolted together. This was another makeshift arrangement.

Mason started in 1958. When we did not offer a completely new product, we always improved existing designs. The first thought was bonding the bottom rubber pad, so it was always there.

In some applications no bolting would be needed if there were friction on top so we added the top rubber washer too.

Our next concern was corrosion, so bringing the rubber over the baseplate and up over the top insert was the final improvement. This design has been copied all over the world without people knowing the history.

(continued on back page)





1950 Double **Deflection Design** 







Over All Steel

## **ND Mounts**

- All mounts are double deflection
- Offer more than three times the deflection of pads
- Prevent noise and high frequency vibration
- Isolate a wide range of equipment
- Supplied with cap screw and washer

## **Exclusive Features**

- Bottom friction surface makes bolting unnecessary in most installations
- Neoprene covering prevents corrosion of steel parts
- Molded in commercial Neoprene
- Bridge bearing Neoprene, Natural Rubber or other elastomers available

#### **ND Mounts**

### **MASON INDUSTRIES**

Rather than bolting two mountings together, we decided to do this

properly and started manufacturing two mountings using the same base and top plates. The shorter Type N for single deflection; the taller ND, double deflection. We include capscrews and washers, to eliminate the nuisance of our customers finding proper bolts.



Since rubber mountings are inexpensive, we now

sell only the ND, so there is always the benefit of the better product.

It is not necessary to bolt these mountings to the floor on most installations. They can be used under flat bases that have no bolt holes in much the same manner as rubber pads. When the

equipment has a flush drain pan or tank on the bottom, the mounting may be inverted so that the rectangular rubber covered steel base plate provides support over a large area.

33/8

33/8

86

86

ND-D

ND-DS

23/4

23/4

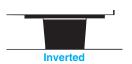
70

70

61/4

63/4 **171** 

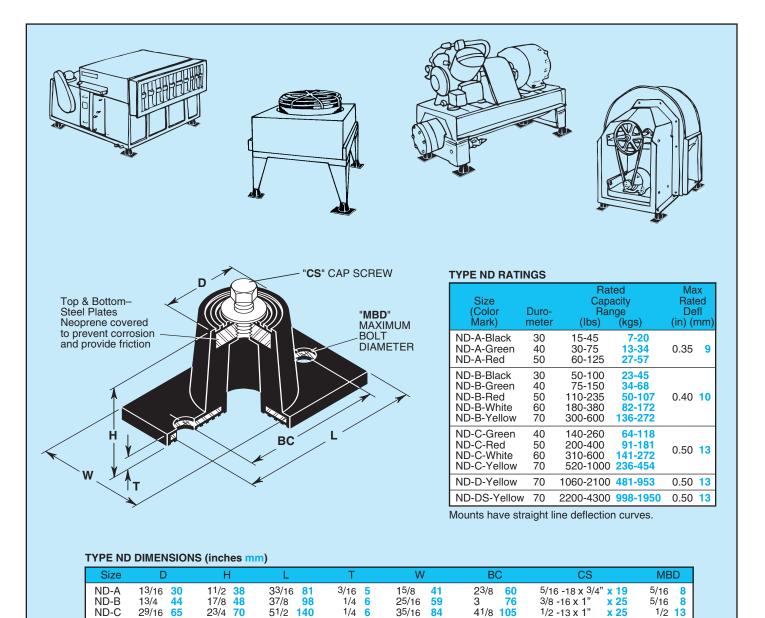
159



Standard mountings are furnished in oil resistant Neoprene. Since we mold these products ourselves, bridge bearing quality Neoprene, Natural Rubber or other elastomers are readily available to meet your requirements.

#### SPECIFICATION

Neoprene mountings shall have a minimum static deflection of 0.35" (9mm). All metal surfaces shall be Neoprene covered to prevent corrosion and have friction pads, both top and bottom. Bolt holes shall be provided on the bottom and a tapped hole with capscrew and washer on top. Mountings shall be Type ND, as manufactured by Mason Industries, Inc.



5/16

5/16 8

8

4

43/8

102

111

5

127

51/2 140

x 25

x 25

1/2 -13 x 1" 1/2 -13 x 1" 1/2 13

1/2

13