

# VIBRATION DAMPENERS

## Series 1000 and 2000



**HOLZ**  
RUBBER COMPANY, INC.  
1-800-285-1600 • Quality Since 1935

Industrial and Process Piping • Air Conditioning Systems  
Power Plants • Heating - Marine - Water - Sewage Systems

**Non-Metallic Joints • Couplings • Connectors • Dampeners**



*A big relief from vibration, noise and stress at pump flanges.*

**HOLZ RUBBER VIBRATION DAMPENERS** are designed specifically to reduce vibration and noise in connecting pumps, compressors and other operating equipment.

**HOLZ RUBBER SERIES 1000 AND 2000** can be installed on the discharge and suction side of pumps, since both series are rated for full vacuum service.

**HOLZ RUBBER VIBRATION DAMPENERS** absorb noise resulting from vibration, prevent noise transmission through the adjoining piping system and minimize the effects of "water hammer".

**HOLZ RUBBER NON-METALLIC VIBRATION DAMPENERS** are non-conductive; stop propagation of electrolytic action at any point where they are installed

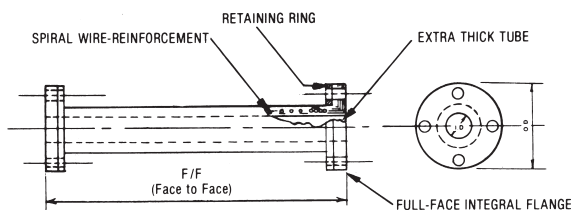
**HOLZ RUBBER "UTILIZED" CONSTRUCTION** provides an extra thick elastomeric tube, high-strength polyester

fabric and spiralled steel wire reinforcement, and full-faced integral flanged ends.

**ALL HOLZ RUBBER NON-METALLIC VIBRATION DAMPENERS** incorporate the finest materials in combination with painstaking fabrication techniques.

Wherever your piping system, and whatever its design function, you gain efficiency, longer system service life, higher shock and vibration resistance, while greatly reducing chances of catastrophic failure, with **Holz Rubber** Elastomeric Vibration Dampeners.

Our standard **"In-Stock"** Vibration Dampeners are constructed of chlorobutyl and polyester. Special covers and tubes also available, to resist aging due to solar effects, or exposure to petroleum and many of its derivatives. They're easy to install and require no gaskets.



**HOLZ RUBBER  
VIBRATION DAMPENERS  
PUMP CONNECTORS**

**SERIES  
1000**

DESIGN PRESSURE: 150 PSIG  
DESIGN VACUUM: 30" HG  
FLANGE DRILLING: 250 lb. ANSI  
RETAINING RING: 3/8" Thick

**SERIES  
2000**

DESIGN PRESSURE: 250 PSIG  
DESIGN VACUUM: 30" HG  
FLANGE DRILLING: 250 lb. ANSI  
RETAINING RING: 1/2" Thick

**MATERIAL/TEMPERATURE (MAXIMUM)**

NATURAL RUBBER: 180 °F CHLOROBUTYL: 250 °F  
Note: Other materials are available. Contact Holz Rubber.

**REDUCE NOISE AND VIBRATION**

**TABLE 1: LENGTHS • DIMENSIONS**

| Series 1000 (150 PSIG, 125 lb. Drilling) |     |             |                  |             |                 |               | Series 2000 (250 PSIG, 250 lb. Drilling) |                  |             |                 |               |
|--|-----|-------------|------------------|-------------|-----------------|---------------|--|------------------|-------------|-----------------|---------------|
| NOMINAL PIPE SIZE I.D. OF DAMPENER       | F/F | FLANGE O.D. | FLANGE THICKNESS | BOLT CIRCLE | NUMBER OF HOLES | SIZE OF HOLES | FLANGE O.D.                              | FLANGE THICKNESS | BOLT CIRCLE | NUMBER OF HOLES | SIZE OF HOLES |
| 1-1/2"                                   | 12" | 5"          | 9/16"            | 3-7/8       | 4               | 5/8           | 6-1/8"                                   | 5/8"             | 4-1/2       | 4               | 7/8           |
| 2  | 12" | 6"          | 9/16"            | 4-3/4       | 4               | 3/4           | 6-1/2"                                   | 5/8"             | 5           | 8               | 3/4           |
| 3  | 12" | 7-1/2"      | 9/16"            | 6           | 4               | 3/4           | 8-1/4"                                   | 5/8"             | 6-5/8       | 8               | 7/8           |
| 4  | 12" | 9"          | 9/16"            | 7-1/2       | 8               | 3/4           | 10"                                      | 5/8"             | 7-7/8       | 8               | 7/8           |
| 5  | 12" | 10"         | 9/16"            | 8-1/2       | 8               | 7/8           | 11"                                      | 5/8"             | 9-1/4       | 8               | 7/8           |
| 6  | 18" | 11"         | 5/8"             | 9-1/2       | 8               | 7/8           | 12-1/2"                                  | 3/4"             | 10-5/8      | 12              | 7/8           |
| 8  | 24" | 13-1/2"     | 3/4"             | 11-3/4      | 8               | 7/8           | 15"                                      | 7/8"             | 13          | 12              | 1             |
| 10                                       | 24" | 16"         | 3/4"             | 14-1/4      | 12              | 1             | 17-1/2"                                  | 7/8"             | 15-1/4      | 12              | 1-1/8         |
| 12                                       | 24" | 19"         | 3/4"             | 17          | 12              | 1             | 20-1/2"                                  | 7/8"             | 17-3/4      | 16              | 1-1/4         |
| 14                                       | 24" | 21"         | 7/8"             | 18 3/4      | 12              | 1-1/8         | 23"                                      | 1-1/16"          | 20-1/4      | 20              | 1-1/4         |

**NOTES:**

- ① Face to face shown is minimum recommended. Longer face to face is available. Contact Holz Rubber.
- ② Flange thickness is Holz Rubber standard.
- ③ Special flange drilling is available. Contact Holz Rubber.
- ④ Contact Holz Rubber for sizes not shown up to 24" I.S.
- ⑤ Available in tapers. Contact Holz Rubber.
- ⑥ Dampeners must be installed straight with a maximum of 1/8" misalignment allowed. No compression or extension is allowed.

**CONTROL ROD UNITS:**

Control rods should be used to prevent axial compression or extension of the flexible vibration dampener whenever the piping system is not adequately anchored.

Control rods are recommended for all applications as an additional safety factor, especially when used on the discharge side of a pump, compressor or other operating equipment.

Control rod lengths are normally provided to accommodate mating flange thickness based upon the ANSI flange standard being furnished, unless customer specifies otherwise. If non-standard, customer must provide width of mating flange or flange specification.

**TABLE 2: COMPARISON OF RELATIVE ACOUSTICAL IMPEDANCE**

| Low Impedance = 1.0<br>(Low Transmission) |           |
|---|-----------|
| MATERIAL                                  | IMPEDANCE |
| HOLZ Dampeners                            | 1.0       |
| Cork                                      | 1.6       |
| Pine                                      | 18.0      |
| Water                                     | 19.0      |
| Concrete                                  | 134.0     |
| Glass                                     | 190.0     |
| Lead                                      | 190.0     |
| Cast Iron                                 | 365.0     |
| Copper                                    | 425.0     |
| Steel                                     | 560.0     |

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