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Standard Specification

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RECOMMENDED ENGINEERING SPECIFICATION FOR Flexzorber™ MOLDED RUBBER SPHERICAL CONNECTORS AND EXPANSION JOINTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Flexzorber rubber connectors and expansion joints. Provide appropriate model molded rubber spherical connector / expansion joint(s):
 - a. Model NNS single sphere flanged (Neoprene)
 - b. Model NND double sphere flanged (Neoprene)
 - c. Model EES single sphere flanged (EPDM)
 - d. Model EED double sphere flanged (EPDM)
 - e. Model NNDFU double sphere union end (Neoprene)

1.02 SUPPLIER

- A. Flexzorber molded rubber spherical connector / expansion joint shall be provided by Flex-Hose Co. or pre-approved equal.

PART 2 PRODUCTS

2.01 Molded spherical connector / expansion joint(s)

- A. The molded spherical body must be manufactured with multiple plies of nylon tire cord fabric.
- B. The nylon tire cord fabric body must be reinforced with a spring steel wire.
- C. Models NND, NNS, and NNDFU shall have a neoprene elastomer bonded to the nylon cord, and the model EED shall have a EPDM elastomer bonded to the nylon cord (to avoid exposure to atmosphere or media).
- D. Neoprene / nylon models shall meet all requirements of the United States Coast Guard
- E. Flanged models EED, EES, NND, and NNS shall have floating/rotatable zinc-coated plate steel flanges and must have drilled bolt holes in accordance with ANSI 150# standard.
- F. Model NNDFU shall have galvanized steel female NPT 150# unions.
- G. The rated design pressure of the molded body must have a minimum 4:1 safety factor (burst to operating pressure) at 70°F.
- H. Design pressure for models NND, NNS and NNDFU (neoprene) is based on a maximum operating temperature of 220° F (104° C). Design pressure for models EED and EES (EPDM) is based on a maximum operating temperature of 250° F (121° C).
- I. Flanged models EED, EES, NND, NNS shall be suitable for 26" Hg vacuum; model NNDFU shall be suitable for 16" Hg vacuum.
- J. For the Canadian market they must be CSA standard B51 certified, inspected and tested by the Technical Standards and Safety Authority of Canada.

SPECIAL NOTE: Unrestrained, rubber connectors/expansion joints will extend when pressurized; therefore, it is recommended that the piping system be anchored. When anchoring is not practical, StopLinks™ control devices must be used.

2.02 WARRANTY

Flexzorber model molded rubber spherical connector / expansion joint(s) must have a 2-year full product replacement warranty when installed in accordance with all specifications and installation instructions as described by Flex-Hose Co.

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