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Standard Specification

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RECOMMENDED ENGINEERING SPECIFICATION FOR PumpSaver™ BRONZE BRAIDED METAL PUMP CONNECTOR (FOR COPPER TUBING)

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. PumpSaver braided metal pump connector(s). Provide appropriate model braided metal pump connector(s) to connect to mating pipe/tubing:
 - a. Model BSW copper female sweat ends
 - b. Model BMN carbon steel male NPT ends

1.02 MANUFACTURER

- A. PumpSaver braided metal pump connector shall be manufactured by Flex-Hose Co. or pre-approved equal.

PART 2 PRODUCTS

2.01 Braided metal pump connector(s)

- A. The hose shall be copper alloy C51000 (95/5) annular corrugated (manufactured in the USA).
- B. The braid shall commercial bronze C22000 (90/10) (manufactured in the USA).
- C. The copper ring ferrule or band shall be of not less than 0.032" thick material.
- D. The hose, braid and ferrule shall be integrally seal-welded using a 100% circumferential TIG weld.
- E. All end fittings shall be must be attached using 100% circumferential TIG weld.
- F. Braided bronze pump connector must be suitable for operating temperatures up to 400 degrees F (204° C).
- G. The rated working pressure of the hose must have a 4:1 safety factor.
- H. Each braided metal hose pump connector is to be individually leak tested by the manufacturer using air-under-water, helium leak detection and/or hydrostatic pressure.
- I. Model BSW shall be supplied with copper female sweat ends.
- J. Model BMN shall be supplied with carbon steel schedule 40 male NPT ends.
- K. For the Canadian market they must be CSA standard B51 certified, inspected and tested by the Technical Standards and Safety Authority of Canada.
- L. When used for potable water the model BSW shall be third party tested and, listed (by a laboratory in compliance with all applicable requirements of ISO/IEC 17025) and marked in accordance with NSF/ANSI 61-2011
- M. When used for potable water the model BSW shall be third party tested and, listed (by a laboratory in compliance with all applicable requirements of ISO/IEC 17025) and marked in accordance with Section 1417(d) of the Safe Drinking Water Act. Must meet the lead content requirements of Section 116875 of the California Health & Safety Code, and the criteria of NSF/ANSI 372 for low lead.

Special Note: Drinking water supplies that are less than pH 6.5 may require corrosion control to limit leaching of copper into the drinking water.

2.02 WARRANTY

PumpSaver model bronze braided metal pump connector(s) must have a 3-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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