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Standard Specification

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RECOMMENDED ENGINEERING SPECIFICATION FOR PumpSaver™ BRAIDED METAL PUMP CONNECTOR (FOR STEEL PIPING)

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 piping:
 - a. Model SMP 150# carbon steel plate flanges
 - b. Model SMN carbon steel male NPT ends
 - c. Model SVG carbon steel grooved pipe ends
 - d. Model SF/CI-15P 150# carbon steel plate reducing ends
 - e. Model SFCI-15PxVG carbon steel plate flange x groove end reducing 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 321/304L annular corrugated stainless steel (manufactured in the USA).
- B. The braid shall be 304 stainless steel (manufactured in the USA).
- C. The stainless steel ring ferrule or band shall be of not less than 0.048" thick material.
- D. The hose, braid and ferrule shall be integrally seal-welded using a 100% circumferential TIG weld.
- E. The hose shall have the first "lip" removed (on flanged models) to insure there are no sharp edges.
- F. All end fittings shall be must be attached using 100% circumferential weld.
- G. Braided stainless steel pump connectors must be suitable for operating temperatures up to 850 degrees F (455° C).
- H. The rated working pressure of the hose must have a 4:1 safety factor.
- I. 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.
- J. Model SMP shall be supplied with flat-face carbon steel plate flanges with drilling and outside diameter to 150# ANSI.
- K. Model SMN shall be supplied with carbon steel schedule 40 male NPT ends.
- L. Model SVG shall be supplied with carbon steel schedule 40 groove pipe ends.
- M. Model SF/CI-15P shall be supplied with the smaller ID plate flange welded to a carbon steel schedule 40 concentric reducer. The corrugated metal hose inside diameter shall match the nominal size of the larger flange to minimize media pressure drop.
- N. Model SF/CI-15pxVG shall be supplied with the smaller ID plate flange welded to a carbon steel schedule 40 concentric reducer. The corrugated metal hose inside diameter shall match the nominal size of the larger groove end diameter to minimize media pressure drop.
- O. Flanged end pump connectors shall be prepared for shipment using cut-to-length spacers, securely positioned between the flanges to prevent axial compression damage during shipment and to maintain the manufactured length.
- P. For the Canadian market they must be CSA standard B51 certified, inspected and tested by the Technical Standards and Safety Authority of Canada.
- Q. When used for potable water the models SMP, SMN and SVG 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
- R. When used for potable water the models SMP, SMN and SVG 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.

2.02 WARRANTY

PumpSaver model 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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