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Standard Specification

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RECOMMENDED ENGINEERING SPECIFICATION FOR PumpFlex™ BPC-FX INTERNALLY PRESSURIZED METAL BELLOWS PUMP CONNECTOR / EXPANSION JOINTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. PumpFlex model BPC-FX internally pressurized pump connector / expansion joints. Provide model BPCFXxx single and /or multi-ply stainless steel bellows pump connector / expansion joint(s) with carbon steel flanged ends.

1.02 MANUFACTURER

- A. PumpFlex internally pressurized metal bellows pump connector / expansion joint(s) shall be manufactured by Flex-Hose Co. or pre-approved equal.

PART 2 PRODUCTS

2.01 Internally Pressurized pump connector / expansion joint

- A. Bellows pump connectors must be manufactured in the USA.
- B. The bellows shall be single or multi-ply design (depending on application pressure) internally pressurized 300 series stainless.
- C. The flanges shall be flat-face carbon steel plate with bolt holes drilled in accordance with ANSI 150#.
- D. The flanges must be configured with a minimum of three (3) carbon steel tie rods at 120 degree offsets to prevent over extension from thrust loads created by internal system pressure.
- E. The tie rods are to be equipped with compression stops to prevent compression beyond design limit.
- F. They must be suitable for operating temperatures up to 850 degrees F (455° C).
- G. For the Canadian market they must be CSA standard B51 certified, inspected and tested by the Technical Standards and Safety Authority of Canada.
- H. The rated working pressure of the bellows must be covered by a minimum 3:1 safety factor as per EJMA.

2.02 WARRANTY

PumpFlex model BPC-FX internally pressurized 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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