(2023Apr BPC.docx)

# **RECOMMENDED ENGINEERING SPECIFICATION FOR PumpFlex™ BPC-FX INternally Pressurized**

# **METAL BELLOWS PUMP CONNECTOR / Expansion JOINTS**

## PART 1 GENERAL

1.01 SECTION INCLUDES

1. 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

## Bellows pump connectors must be manufactured in the USA.

## The bellows shall be single or multi-ply design (depending on application pressure) internally pressurized 300 series stainless.

1. The flanges shall be flat-face carbon steel plate with bolt holes drilled in accordance with ANSI 150#.

## 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.

## The tie rods are to be equipped with compression stops to prevent compression beyond design limit.

1. They must be suitable for operating temperatures up to 850 degrees F (455° C).
2. For the Canadian market they must be CSA standard B51 certified, inspected and tested by the Technical Standards and Safety Authority of Canada.
3. The rated working pressure of the bellows must be covered by a minimum 3:1 safety factor as per EJMA.
	1. 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.