



# MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

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INSTALLATION  
 INSTRUCTIONS for MFTNC  
 TWIN-SPHERE SUPER-FLEX  
 EPDM CONNECTORS

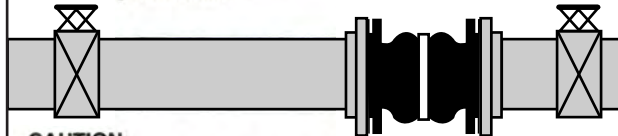
# SUPER-FLEX MFTNC

DATA SHEET DS-915-1

## Installation Instructions for Super-Flex MFTNC Connectors

### ANCHORED APPLICATIONS

SUPER-FLEX MFTNC CONNECTORS THAT ARE USED IN EXPANSION APPLICATIONS ARE INSTALLED WITH ANCHORS ON EITHER SIDE OF THE CONNECTOR. Leave a space between pipe flanges equal to the length shown below and draw the connectors out evenly with the flange bolts during installation.

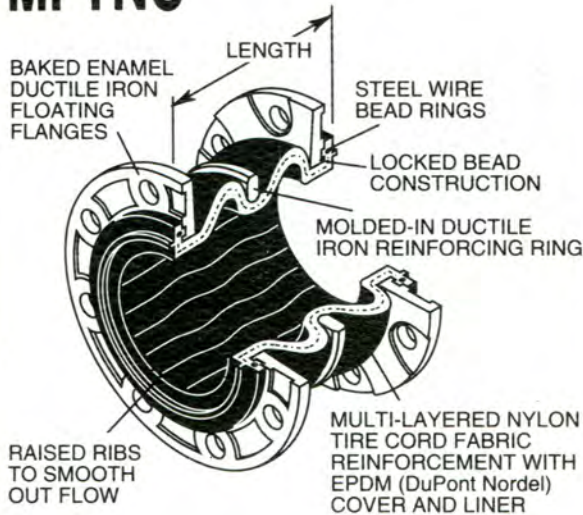


#### CAUTION:

Depending on storage and shipping methods the connectors may not be the lengths listed here. The flange bolts will extend the connectors or they can be manually compressed to fit the space listed.

Space Between Pipe Flanges	Pipe Size
7	1 1/2
7	2
7	2 1/2
7	3
7	4
7	5
7	6
8	8
8	10
8	12

## Super-Flex MFTNC



### SUPER-FLEX MFTNC DIMENSIONS and ALLOWABLE MOVEMENTS

Super-Flex MFTNC Size	Length Face to Face (in)	Allowable Movements			
		Axial Compression (in)	Axial Elongation (in)	Transverse Movement ± (in)	Angular Movement (degrees)
1 1/2	7	1 1/2	1/2	5/8	30°
2	7	1 1/2	1/2	5/8	30°
2 1/2	7	1 1/2	1/2	7/8	30°
3	7	1 1/2	3/4	7/8	30°
4	7	1 1/2	3/4	7/8	29°
5	7	1 1/2	3/4	7/8	24°
6	7	1 1/2	3/4	7/8	20°
8	8	1 1/2	3/4	7/8	15°
10	8	1 1/2	7/8	1 1/4	13°
12	8	1 1/2	7/8	1 1/4	11°

### SUPER-FLEX MFTNC MAXIMUM OPERATING PRESSURES (psi)

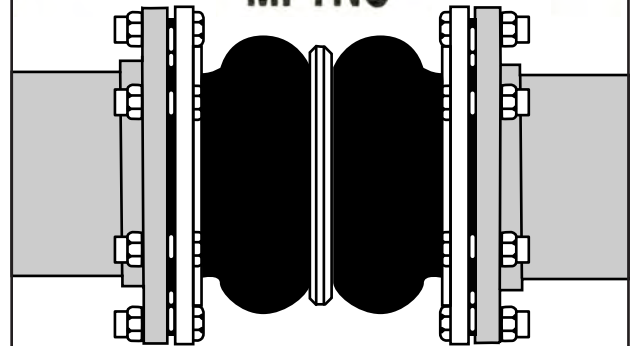
Sizes	at Operating Temperatures (F) of						Max. Vacuum	Min. Burst Pressure
	170°	180°	190°	200°	210°	250°		
1 1/2-12	250	240	230	220	205	165	Full	1000

### SPRING MOUNTED EQUIPMENT AND OTHER UNANCHORED APPLICATIONS

SUPER-FLEX MFTNC CONNECTORS USED AS NOISE AND VIBRATION DAMPENERS ONLY AND INSTALLED IN UNANCHORED PIPING WILL GROW IN RESPONSE TO THE PRESSURE AS SHOWN BELOW. Adjust the spring mountings so the equipment is at the proper level. Leave a space between pipe flanges equal to the length shown below and draw the connectors out evenly with the flange bolts. Spring supported equipment will yield in response to the tightening so the connector may not be fully extended. When the connector is at operating pressure the system will return to the original position.



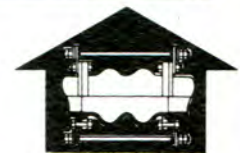
## Super-Flex MFTNC



SPACE REQUIRED BETWEEN FLANGES for VARIOUS PRESSURES (INCHES)

Pipe Size	CONSTRUCTION - 250psi & 350psi						
	0psi	50psi	100psi	150psi	175psi	200psi	250psi
1 1/2	7	7 1/16	7 3/16	7 1/4	7 5/16	7 7/16	7 1/2
2	7	7 1/16	7 3/16	7 1/4	7 5/16	7 7/16	7 1/2
2 1/2	7	7 1/16	7 3/16	7 1/4	7 5/16	7 7/16	7 1/2
3	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4
4	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4
5	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4
6	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4
8	8	8 1/8	8 1/4	8 3/8	8 1/2	8 5/8	8 3/4
10	8	8 1/4	8 7/16	8 11/16	8 7/8	*	*
12	8	8 1/4	8 7/16	8 11/16	8 7/8	*	*

\* Use Control Rods or Cables in these sizes and pressures and use 0 psi for spacing.



**CAUTION:** This extension procedure is an **ABSOLUTE** must on all connections to spring mounted systems such as pumps (when control rods are not used) or the connectors may drive the spring solid under the pumps or shift the foundation.





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## INSTALLATION

### INSTRUCTIONS for MFNC

#### SINGLE-SPHERE SUPER-FLEX

#### EPDM CONNECTORS

## SUPER-FLEX

# MFNC

DATA SHEET DS-915-1

## Installation Instructions for Super-Flex MFNC Connectors

### ANCHORED APPLICATIONS

SUPER-FLEX MFNC CONNECTORS THAT ARE USED IN EXPANSION APPLICATIONS ARE INSTALLED WITH ANCHORS ON EITHER SIDE OF THE CONNECTOR. Leave a space between pipe flanges equal to the length shown below and draw the connectors out evenly with the flange bolts during installation.

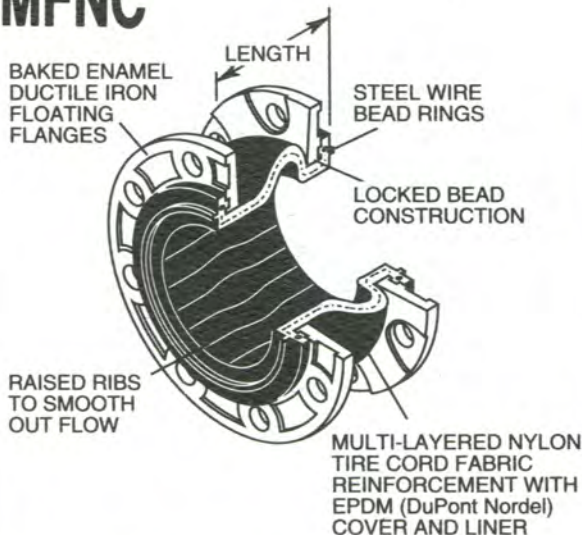


#### CAUTION:

Depending on storage and shipping methods the connectors may not be the lengths listed here. The flange bolts will extend the connectors or they can be manually compressed to fit the space listed.

Space Between Pipe Flanges	Pipe Size
4	1 1/2
4	2
4	2 1/2
4	3
4	4
4	5
4	6
6	8
6	10
6	12

## Super-Flex MFNC



#### SUPER-FLEX MFNC DIMENSIONS and ALLOWABLE MOVEMENTS

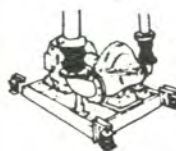
Super-Flex MFNC Size	Length Face to Face (in)	Allowable Movements			
		Axial Compression (in)	Axial Elongation (in)	Transverse Movement ± (in)	Angular Movement (degrees)
1 1/2	4	5/8	3/8	3/8	20°
2	4	5/8	3/8	3/8	20°
2 1/2	4	5/8	3/8	3/8	20°
3	4	5/8	3/8	3/8	18°
4	4	7/8	3/8	3/8	17°
5	4	7/8	3/8	3/8	14°
6	4	7/8	3/8	3/8	12°
8	6	1	1/2	3/8	11°
10	6	1	1/2	5/8	9°
12	6	1	1/2	5/8	7°

#### SUPER-FLEX MFNC MAXIMUM OPERATING PRESSURES (psi)

Sizes	at Operating Temperatures (F) of					Max. Vacuum	Min. Burst Pressure
	170°	180°	190°	200°	210°		
1 1/2-12	250	240	230	220	205	165	Full

### SPRING MOUNTED EQUIPMENT AND OTHER UNANCHORED APPLICATIONS

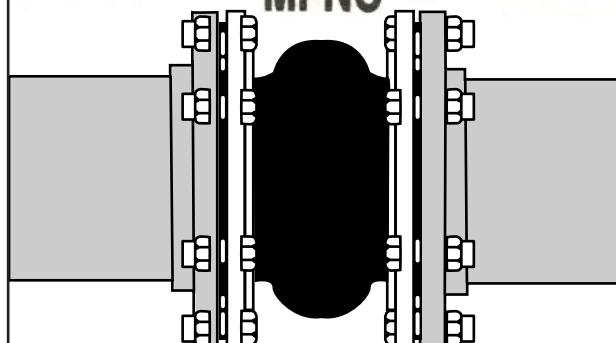
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Install Flange Bolts with Heads on Joint Side



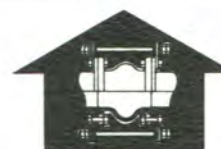
## Super-Flex MFNC



SPACE REQUIRED BETWEEN FLANGES for VARIOUS PRESSURES (INCHES)

Pipe Size	CONSTRUCTION - 250psi & 350psi						
	0psi	50psi	100psi	150psi	175psi	200psi	250psi
1 1/2	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8
2	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8
2 1/2	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8
3	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8
4	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8
5	4	4 1/8	4 3/16	4 9/32	4 3/8	*	*
6	4	4 1/8	4 3/16	4 9/32	4 3/8	*	*
8	6	6 3/16	6 3/8	6 1/2	*	*	*
10	6	6 3/16	6 3/8	6 1/2	*	*	*
12	6	6 3/16	6 3/8	6 1/2	*	*	*

\* Use Control Rods or Cables in these sizes and pressures and use 0 psi for spacing.



**CAUTION:** This extension procedure is an ABSOLUTE must on all connections to spring mounted systems such as pumps (when control rods are not used) or the connectors may drive the spring solid under the pumps or shift the foundation.