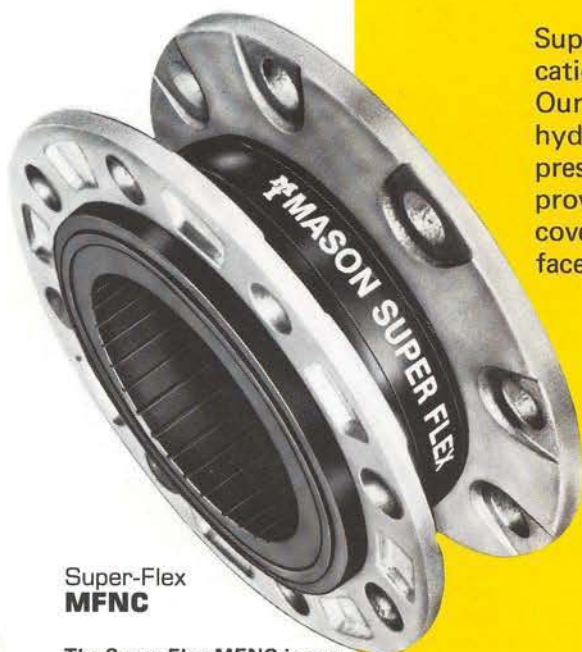
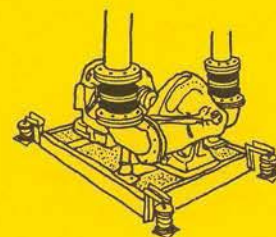




MASON SUPER-FLEX

EXPANSION JOINTS & CONNECTORS

Super-Flex expansion joint connectors were designed after years of application experience with other similar products for identical applications. Our new technology using thermostatically controlled electrically heated hydraulic presses and redesigned molds has resulted in higher operating pressures with greater safety factors than ever before. Nylon tire cord provides excellent carcass reinforcement and the DuPont Nordel (EPDM) cover and liner, magnificent aging and temperature resistance. The shorter face to face dimensions solve many tight fit problems.



Super-Flex MFNC

The Super-Flex MFNC is one of the shortest Face to Face Designs in the World. Tough and Economical, it is a real Space Saver.

SUPER-FLEX CONNECTORS

- Are recommended for Expansion and Contraction
- Save the Expense of costly Expansion Loops
- Compensate for Misalignment and Offset
- Protect against harmful "Start-Up" and Surge Forces
- Guard against Vibration that could result in Damaged Piping and Noisy Installations
- Have Molded Liner Ribs to smooth out Water Flow
- Pay for Themselves by Eliminating Gaskets, Alignment Costs and making Final Connections Quick and Easy

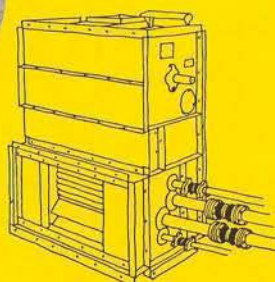


Super-Flex MFTNC

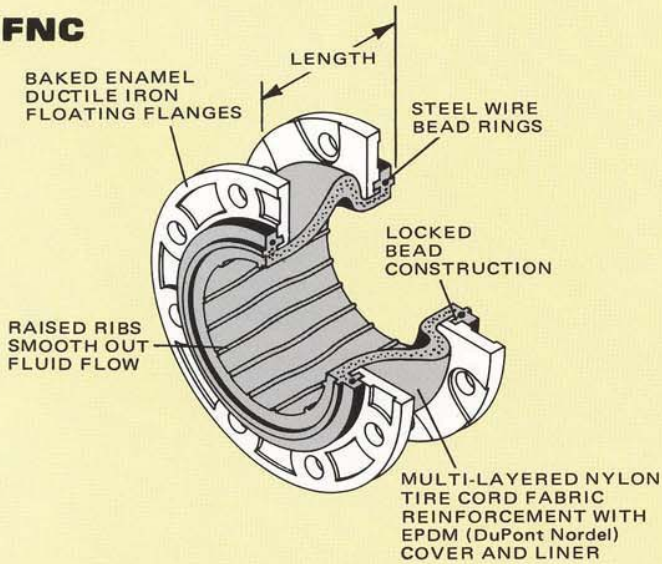
The Super-Flex MFTNC features a Molded-In Ductile Iron Reinforcing Ring Between the Two Spheres to maintain the Two Spherical Shapes at Maximum Pressures. MFTNC has Excellent Movement, Vibration Control and Sound Absorption Capabilities.

WE OFFER:

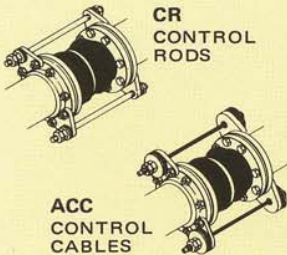
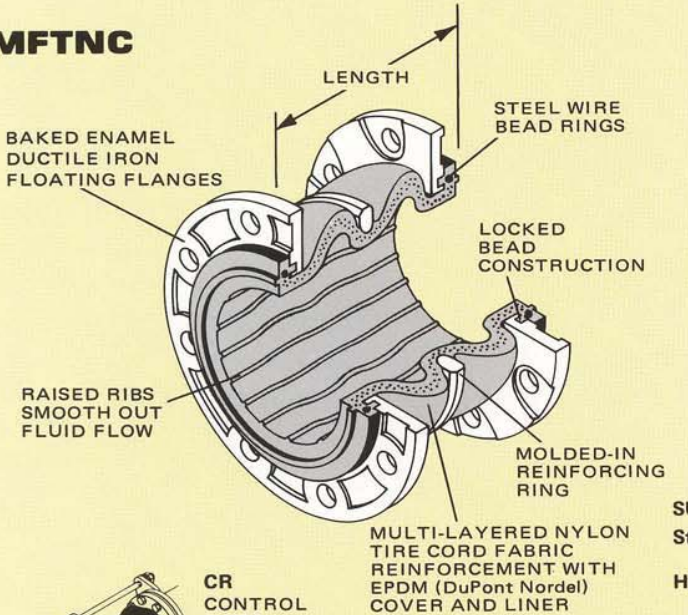
- Ductile iron floating flanges finished in red baked enamel. Size range 1½" to 12" (40mm to 300mm) diameter to match ASA, DIN, PN, JIN and British Standards.
- Other elastomers such as Neoprene, Hypalon, Buna-N, SBR, Chloro-Butyl, Natural Rubber, etc. for special applications.
- Single sphere MFNC for minimum space requirements and economy.
- Double sphere MFTNC for maximum motion and acoustical performance.
- Control Rods and Control Cables
- Duplex Assemblies for extreme motion



MFNC



MFTNC



MFNC and MFTNC Connectors Installed in Piping Systems that are Anchored on Both Sides of the Connectors Need No Control Rods or Cables. Piping Movements must be within the Tabulated Allowables.

MFNC Connectors Installed in Unanchored Piping or Connected to Isolated Equipment Must Have Control Cables or Rods when the Pressure is Higher than—

MFTNC Connectors Installed in Unanchored Piping or Connected to Isolated Equipment Must Have Control Cables or Rods when the Pressure is Higher than—

U.S.A. & BRITISH		METRIC	
Pipe Size (in)	Pressure (psi)	Pipe Size (mm)	Pressure (kg/cm ²)
1½-4	250	40-100	17.5
5-6	175	125-150	12.3
8-12	150	200-300	10.5

U.S.A. & BRITISH		METRIC	
Pipe Size (in)	Pressure (psi)	Pipe Size (mm)	Pressure (kg/cm ²)
1½-8	250	40-200	17.5
10-12	175	250-300	12.3

SUPER-FLEX MFNC Dimensions and Allowable Movements

Super-Flex MFNC Size	Length Face to Face	Allowable Movements			
		Axial Compression	Axial Elongation	Transverse Movement	Angular Movement
in mm	in mm	in mm	in mm	± in ± mm	(degree)
1½ 40	4 100	5/8 16	3/8 10	3/8 10	20°
2 50	4 100	5/8 16	3/8 10	3/8 10	20
2½ 65	4 100	5/8 16	3/8 10	3/8 10	20
3 75	4 100	5/8 16	3/8 10	3/8 10	18
4 100	4 100	7/8 22	3/8 10	3/8 10	17
5 125	4 100	7/8 22	3/8 10	3/8 10	14
6 150	4 100	7/8 22	3/8 10	3/8 10	12
8 200	6 150	1 25	1/2 13	1/2 13	11
10 250	6 150	1 25	1/2 13	5/8 16	9
12 300	6 150	1 25	1/2 13	5/8 16	7

For sizes larger than 12" 300mm, refer to Mason-Flex Connector MFNC

SUPER-FLEX MFTNC Dimensions and Allowable Movements

Super-Flex MFTNC Size	Length Face to Face	Allowable Movements			
		Axial Compression	Axial Elongation	Transverse Movement	Angular Movement
in mm	in mm	in mm	in mm	± in ± mm	(degree)
1½ 40	7 180	1½ 38	1/2 13	5/8 16	30°
2 50	7 180	1½ 38	1/2 13	5/8 16	30
2½ 65	7 180	1½ 38	1/2 13	7/8 22	30
3 75	7 180	1½ 38	3/4 19	7/8 22	30
4 100	7 180	1½ 38	3/4 19	7/8 22	29
5 125	7 180	1½ 38	3/4 19	7/8 22	24
6 150	7 180	1½ 38	3/4 19	7/8 22	20
8 200	8 200	1½ 38	3/4 19	7/8 22	15
10 250	8 200	1½ 38	7/8 22	1¼ 32	13
12 300	8 200	1½ 38	7/8 22	1¼ 32	11

EPDM Characteristics

Resistance to	EPDM	NEOPRENE	Natural Rubber
Abrasion	Excellent	Excellent	Excellent
Water Absorption	Very Good	Good	Very Good
Oxidation	Excellent	Excellent	Good
Ozone	Outstanding	Excellent	Fair
Sunlight Aging	Outstanding	Very Good	Poor
Heat Aging	Excellent	Excellent	Good
Heat	Excellent	Very Good	Good
	275°F 135°C	190°F 87°C	180°F 82°C
Cold	Excellent	Good	Very Good
	-60°F -51°C	-10°F -23°C	-20°F -28°C

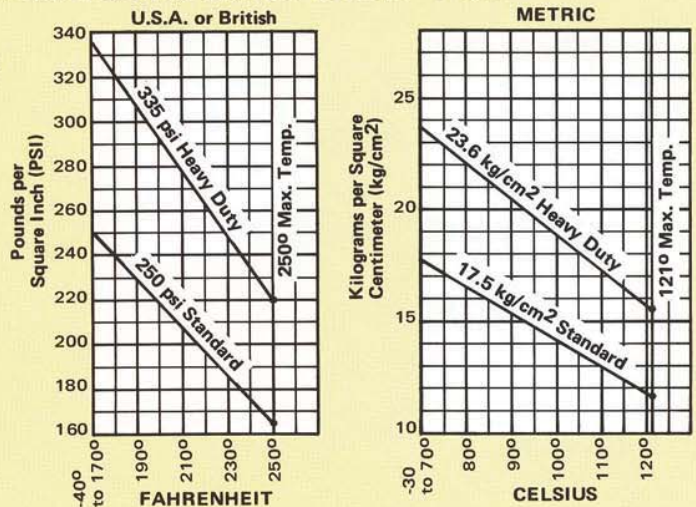
SUPER-FLEX MFNC and MFTNC PRESSURE - TEMPERATURE RATINGS

Standard Full Vacuum
250 psi - 17.5 kg/cm² 250°F - 121°C with pressure correction

Heavy Duty Full Vacuum
335 psi - 23.6 kg/cm² 250°F - 121°C with pressure correction

Minimum Burst Pressures
Standard 1000 psi - 70 kg/cm² Heavy Duty 1350 psi - 94.5 kg/cm²

Note: Flange leakage may occur at 1000 psi - 70 kg/cm²



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