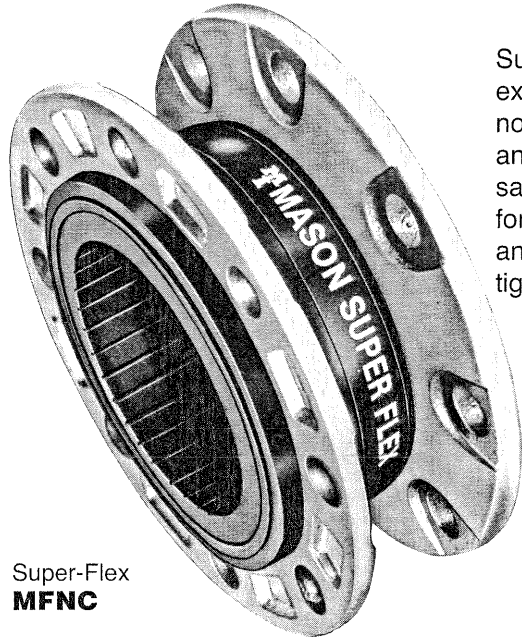
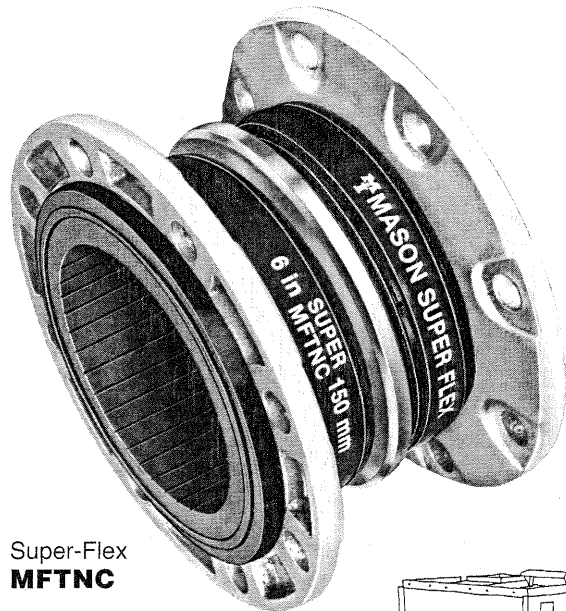


EXPANSION JOINTS & CONNECTORS



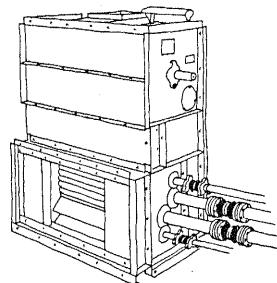
Super-Flex
MFNC

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.

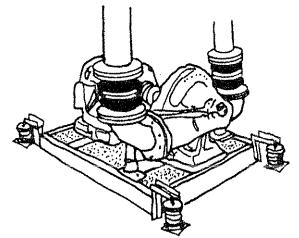


Super-Flex
MFTNC

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.



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.

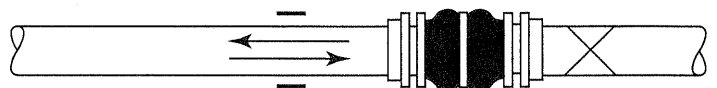


SUPER-FLEX CONNECTORS

- 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

WE OFFER:

- Ductile iron floating flanges finished in red baked enamel. Sizes range 11/2" 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 performances.
- Control Rods and Control Cables.
- Duplex Assemblies for extreme motion.



MFNC

BAKED ENAMEL
DUCTILE IRON
FLOATING FLANGES

LENGTH

STEEL WIRE
BEAD RINGS

LOCKED
BEAD
CONSTRUCTION

RAISED RIBS
SMOOTH OUT
FLUID FLOW

MULTI-LAYERED NYLON
TIRE CORD FABRIC
REINFORCEMENT
WITH EPDM (DuPont
Nordel) COVER AND
LINER

MFTNC

BAKED ENAMEL
DUCTILE IRON
FLOATING FLANGES

LENGTH

STEEL WIRE
BEAD RINGS

LOCKED
BEAD
CONSTRUCTION

RAISED RIBS
SMOOTH OUT
FLUID FLOW

MOLDED-IN
REINFORCING
RING

MULTI-LAYERED NYLON
TIRE CORD FABRIC
REINFORCEMENT WITH
EPDM (DuPont Nordel)
COVER AND LINER

CR
CONTROL
RODS

ACC
CONTROL
CABLES

MFNC and MFTNC Connectors
Installed in Piping Systems that
are Anchored on Both Sides of
the Connectors Need No
Control Rods and 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)
1 1/2-4	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)
1 1/2-8	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	(degree)		
1 1/2	40	4	100	5/8	16	3/8	10	20°
2	50	4	100	5/8	16	3/8	10	20°
2 1/2	65	4	100	5/8	16	3/8	10	20°
3	75	4	100	5/8	16	3/8	10	18°
4	100	4	100	7/8	22	3/8	10	17°
5	125	4	100	7/8	22	3/8	10	14°
6	150	4	100	7/8	22	3/8	10	12°
8	200	6	150	1	25	1/2	13	11°
10	250	6	150	1	25	1/2	13	9°
12	300	6	150	1	25	1/2	13	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	(degree)		
1 1/2	40	7	180	1 1/2	38	1/2	13	30°
2	50	7	180	1 1/2	38	1/2	13	30°
2 1/2	65	7	180	1 1/2	38	1/2	13	30°
3	75	7	180	1 1/2	38	3/4	19	22
4	100	7	180	1 1/2	38	3/4	19	22
5	125	7	180	1 1/2	38	3/4	19	22
6	150	7	180	1 1/2	38	3/4	19	22
8	200	8	200	1 1/2	38	3/4	19	22
10	250	8	200	1 1/2	38	7/8	22	11/4
12	300	8	200	1 1/2	38	7/8	22	11/4

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
Cold	275°F 135°C Excellent	190°F 87°C Good	180°F 82°C Very Good
	-60°F -51°C	-10°F -23°F	-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

