# MERCER

# Duct Type Expansion Joints

Internal Flowing Arch Rectangular or Square Duct Connector

**Flexible Connectors are used in DUCT SYSTEMS to reduce Vibration Transmission and Shock, and Accommodate Thermal Movements at minimum stress to the ductwork. In Seismic zones they accommodate differential motion across building expansion joints as well.**

Single or Multiple Arch Round Duct Connector

### Construction Features

- Covers and tubes may be Neoprene, EPDM, Nitrile, Hypalon, Butyl, Viton (A), Natural Rubber or other polymers as required.
- Reinforcement fabrics are normally Nylon, Polyester or Kevlar for high temperature.
- Sizes up to 154" in diameter or 180" maximum straight dimension.
- Carbon steel or Stainless steel rings.
- Excellent flexibility.
- Exterior coat of Hypalon paint provides additional protection against ozone weathering and chemical exposure.
- Components are pressure cured in a steam chamber for structurally sound, long service life.

### Performance Features

- Pressures, vacuum ratings and temperature tolerance as required.
- Face to face dimensions and number of arches as required for movements.

# DUCT CONNECTOR INFORMATION

We are more than pleased to build to your drawings and material selections, but by all means, let our engineers design to your specific service requirements should you need our help. No one orders a duct connector from stock. Once we know what you need, we will prepare a drawing or send you a complete description with our quotation.

You can use this page to make as many copies as you need of the following information requirement section. Just fill out the blanks if you do not have your own drawing and specification for us to bid on.

*Description of Gas (i.e. Air, Methane, Flue, etc.)* _____

_____

*All Pressures and Dimensions can be described in Standard American, British or Metric terminology.* **Please indicate unit of description.**

| | Minimum | Maximum |
|---|---|---|
| *Temperature Range* | _____ | _____ |
| *Pressure* | _____ | _____ |
| *Vacuum* | _____ | _____ |
| *Maximum Motion in service:* | | |
| Extension | _____ | _____ |
| Compression | _____ | _____ |
| Transverse | _____ | _____ |
| *Face to Face* | _____ | _____ |

*Duct Dimensions or Description* _____

_____

*Flange or Slipover Sleeve Description or Sketch* _____

_____

_____

*Banded Clamps are Stainless Steel.*

| *Flange Backup Rings or Bars:* | Carbon | Stainless | Stainless |
|---|---|---|---|
| | ❒A 36 | ❒304 | ❒316 |

*Finish:* ❒Painted ❒Zinc Primer ❒Electro Galv. ❒Hot Dipped Galv.

*Rubber Material:*

| | Nat. Rubber | Neoprene | EPDM | Hypalon | Butyl | Nitrile | Viton |
|---|---|---|---|---|---|---|---|
| *Cover* | ❒ | ❒ | ❒ | ❒ | ❒ | ❒ | ❒ |
| *Tube* | ❒ | ❒ | ❒ | ❒ | ❒ | ❒ | ❒ |

❒Please Recommend

*Reinforcement Material:* ❒Nylon ❒Polyester ❒Kevlar ❒Please Recommend

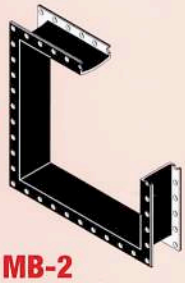
*Stainless Steel Internal Sleeve:* ❒Yes ❒No ❒304 ❒316 ❒Please Recommend

**The following sketches show typical duct connectors to help in shape selection. If any sketch fits your needs, please check one. If not, please sketch and describe.**

❒ **MI-9**
Round Single Arch (2" to 154" dia.)
Drilling: Standard NBS-15-69 150#ASA or Custom

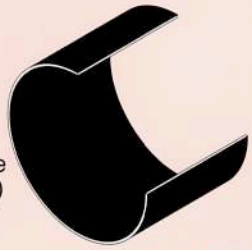
❒ **MC-3**
No arch (2" to 154" dia.)
Drilling: Standard NBS-15-69 150#ASA or Custom

❒ **MD-4**
Internally Flowing Arch (4" to 180")
Custom Drilling
Face to Face of 6", 8", 9" or 12"



❒ **MD-4T**
Belt Style

❒ **MB-2**
Single Arch Sleeve (2" to 154" dia.)



❒ **MA-1**
No Arch Sleeve (2" to 154" dia.)

**All styles can be built as reducers in addition to straight connectors above.**

**SKETCH AREA**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