

Product Specifications

Fully flexible, pre-insulated ducting with an inner core constructed from multiple layers of aluminum and polyester laminated to encapsulate a high carbon, spring steel wire helix. The inner core is wrapped with a thick blanket of high density insulation and covered with an outer vapor barrier constructed from multiple layers of aluminized polyester and polyester and reinforced with fiberglass scrim. ISOCONNECT B25MP installs easily on circular or oval fittings.

ISOCONNECT B25MP insulated flexible ducting is used in ventilation, air conditioning, and air handling systems where high mechanical strength, temperature, and fire resistance is required.

Construction

Inner Core - 3 Total Layers

Aluminum	- 1 layer x 7 micron
Aluminized Polyester (PET)	- 2 layers x 12 micron
Total Thickness	- 31 microns (excluding adhesive)

Insulation - 25mm thick x 16 kg/m³ density

$$R = 0.65 [m^2 \cdot K/W]$$

Outer Vapor Barrier

Aluminized Polyester	- 1 layer x 12 micron
Polyester (PET)	- 1 layer x 12 micron
Fiberglass scrim reinforcement	
Total Thickness	- 24 microns (excluding adhesive)

Specifications

Temperature Range	- from -30° C to +140° C
Operating Pressure	- from -188 to +2500 Pa
Operating Velocity	- 20 m/s maximum
Centerline Bend Radius	- 1 x Dia. minimum
Standard Diameter Range	- 82mm to 560mm
Standard Length	- 10 meter

Classifications

French - M1

EU - EN 13180 Dia. Class B, Tightness Class C, Sag < 4°,
Crushing Strength 13-35 kg compressed,
2-5 kg uncompressed

Features & Benefits

Fully Flexible Ducting

Quick Installation
Reduced labor cost

Air Tight Construction

Energy efficient
Low air leakage

Smooth Interior

Low friction loss
Low operating cost

Multi-Layer Construction

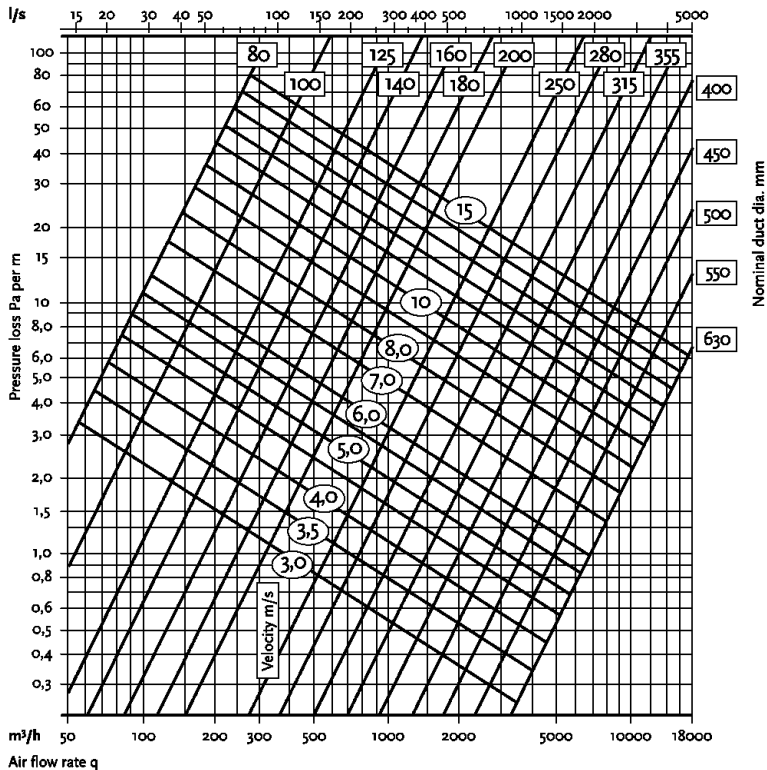
Tear & Puncture Resistant
Low maintenance

Light Compact Packaging

Reduced warehouse and handling cost



Pressure Loss (Straight Duct)



Use Limitations

ISOCONNECT B25MP is not suitable for transporting air with high concentration of acids and base.

ISOCONNECT B25MP should not be used to discharge combustion gases from open fire places or oil-fired boilers.

Packaging

Each 10 meter length flexible duct is individually compressed in cartons of 1.0 meter and delivered on 1.0 x 1.2 x 2.4 meter pallets (2.2 meter height for Belgium and NL).

Pressure Loss (90° Bend)

