

BASIC TYPES OF FABRIC EXPANSION JOINT

Single Layer Type

This type is comprised of one or more reinforcement plies with non-permeable laminates to form a homogeneous material impervious to flue gases and very resistant to flue gas acids, oils, chemicals, and heat. Single layer belts are offered in either elastomer, fluoroelastomer or PTFE. Maximum operating temperature to 250°C.



Composite Type

This type of expansion joint consists of various layers of materials which are usually bonded, knitted, sewn or bolted together in the clamped flange area. Composite belts include gas seal membrane, insulating layer, retaining layer, wire mesh, coated fabric reinforcing plies and other layers or barriers. Composite belts are manufactured in either Belt type or Integrally Flanged type. Maximum operating temperature to 1300°C.




CONSTRUCTION OF KURBO'S TYPICAL FLEXIBLE ELEMENTS


Single Layer Belts

Single layer belts are a combination of reinforcing plies and coatings of elastomers or fluoroplastic which are non-permeable to flue gases and resistant to flue gas acids, chemical, oil and heat. These belts are usually offered in either EPDM, Viton or PTFE varieties

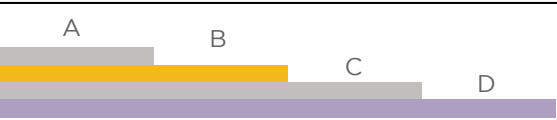
Type SE-150

	<p>A: EPDM, B: Fiberglass, C: EPDM, D: Fiberglass, E: EPDM</p>
<p>Service to 150°C without pillow Service to 500°C with suitable pillow, baffle and frame Pressure up to 0.3 barg Good for dry and wet application</p>	

Type SV-200

	<p>A: FKM (Fluoroelastomer), B: Fiberglass, C: FKM, D: Fiberglass, E: FKM</p>
<p>Service to 200°C without pillow Service to 500°C with suitable pillow, baffle and frame Pressure up to 0.3 barg Good for dry and wet application and high sulfur content exhaust gas</p>	

Type SP-300

	<p>A: PTFE (Fluoroplastic), B: Fiberglass, C: PTFE, D: PTFE Laminate</p>
<p>Service to 300°C without pillow Service to 500°C with suitable pillow, baffle and frame Pressure up to 0.3 barg Suitable for dry application. In case of wet medium single layer belt with proper frame as an option</p>	


Kurbo modifies and substitutes construction/composition of belting to meet your needs

Composite Belts

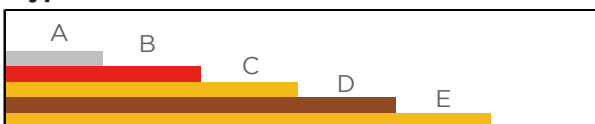
Composite belts consist of gas seal membrane, insulation/thermal barrier, retaining and reinforcing plies. These composite belts can be manufactured in either “Flat Belt” or “Integrally Flanged “ varieties




Type CM-400

	A: Outer cover C: Fiberglass cloth E: Fiberglass cloth	B: Gas seal membrane D: Fiberglass mat(12mm)
<p>System temperature to 400°C. Higher operating temperature is available with pillow Pressure up to 0.2 barg Good for dry application</p>		


Type CM-500

	A: Outer cover C: Fiberglass cloth E: Fiberglass cloth	B: Gas seal membrane D: Fiberglass mat(25mm)
<p>System temperature to 540°C. Pressure up to 0.2 barg Good for dry flue gas and chemical gas application</p>		

Type CM-600

	A: Outer cover C: Fiberglass cloth E: Retaining silica cloth	B: Gas seal membrane D: Fiberglass mat F: SS316 Knitted mesh
<p>System temperature to 540°C. Supplied with pillow Pressure up to 0.2 barg Excellent mechanical stability Good for dry flue gas and chemical gas application</p>		

Type CM-1000

	A: Outer cover C: Fiberglass cloth E: Retaining silica cloth	B: Gas seal membrane D: Fiberglass mat F: SS316 Knitted mesh
<p>System temperature to 1000°C. Supplied with pillow and refractory Pressure up to 0.2 barg Excellent mechanical stability Good for dry flue gas and chemical gas application</p>		

Construction/composition of belting can be modified or substituted to meet your needs.