

# **TEXTILE JOINTS**

TEXTILE JOINTS	
Sheet	A

## FEATURES AND PARTICULARS

Textile joints are built with special multiply textile fibers, are extremely flexible, adapt to very high temperatures and have a good resistance to the chemical aggressions. These joints are installed generally in the air conducts or discharging gas and used to absorb the thermal expansions, the not alignments and to eliminate the vibrations bred from the mechanical equipment connected to the pipelines. They have besides the advantage of to have lengths of installation reduced.

### USAGES:

Textile joints are normally used:

- HEATING AND CONDITIONING INSTALLATIONS
- NAVAL CONSTRUCTIONS
- SMOKE ASPIRATION AND CLEANING AIR AND GAS INSTALLATIONS
- BOILERS
- CHEMICAL INDUSTRIES AND REFINERY
- PAPER MILLS AND CERAMIC INDUSTRIES



Textile joints can to be built in the following types:

- Closed with holes on flanges
- Closed without holes on flanges
- Opened without holes on flanges, complete of set for junction seal on installation
- In rolls without holes on flanges, complete of set for junction seal on installation

Every individual textile joint is built to drawing with the dimensions requests; is possible to order these joints with structure and dimensions dedicated.

The textile joints can be supplied rounded, rectangular and conic, from rounded to rectangular or in other shapes.

### “HT” TYPE FOR HIGH TEMPERATURES AND “LT” TYPE FOR LOW AND MIDDLE TEMPERATURES

These joints specially are indicated to eliminate noises caused from the equipment in the pipelines and to interrupt the passage of heat in the big metallic structures.

“HT” type can to be used for working temperatures since 1000 degC with pressures of  $\pm 2000$  mm/H<sub>2</sub>O.

“LT” type can to be used for working temperatures since 500 degC with pressures of  $\pm 2000$  mm/H<sub>2</sub>O.

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## **BUILDING**

The construction and the shape of the joint, guarantee the movements in compression, so that the textile structure not interfere with the inside duct.

Are available in different types, anyone designed for variations of temperatures.

Are built with fiber glass structure or ceramic with metallic nets, with high mechanic resistance, that distribute the heat on all surface and increase mechanic resistance of the joint.

To obtain more movements elasticity, the metallic net and in any case also the textile fibers, are positioned with 45deg inclination, in reference to joint's axial line.

Temperature resistance is obtained with usage of one or more material insulating ply (glass fiber or ceramic fiber), therefore the resistance at chemist aggressives and the perfect pressure contained, is guarantee from one P.T.F.E. layer, or from one or more glass textile covered with P.T.F.E., it depend from fluids conveyed.

Externally is covered with material layer, that it resist at atmospheric agents.

For usage is very important that this joint don't be insulate, to not compromise its working operations.

## **FLUID CHEMIST AGGRESSIVITY**

### NO 0% S:

Heat air o process without aggressive gas. Heat air installations.

### LOW TO 1,3% S:

Combusted gas with sulphur content low to 1,3%. Installation of warming owen's supply and gas supply installations etc..

### HIGH TO 1,3% S:

Combusted gas with sulphur content high to 1,3%; gas content chlorine and/or similar fluids. Installation of industrial and warming owens etc.

## **INSTALLATION**

The junctions of the txtile joint, should be positioned where smaller thermal requests expect themselves and mechanic.

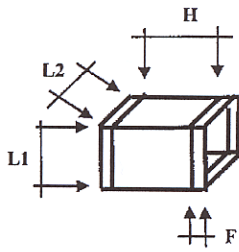
In case of installations on horizontal conducts where they formations happen of it condenses, the junctions should be positioned on the superior part of the textile joint.

In case of installations on conducts in proximity of heat sources or walls that they hinder the thermal squander, the junctions should be positioned in the coldest point.

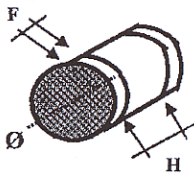
Don't insulate the joint for to have a good external air cooling.

**NOTE: In the next page, you can to see all textile joints types.**

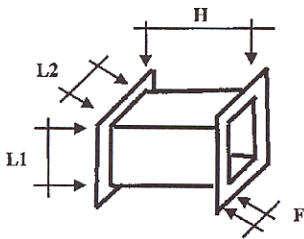
## TEXTILE JOINTS TYPES



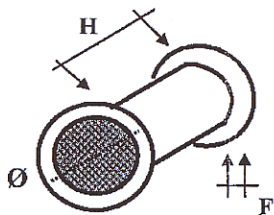
Type "A" squared with flanged pipe ends



Type "B" rounded with flanged pipe ends



Type "C" squared with flanged ends



Type "D" rounded with flanged ends