High Pressure Quick Acting Closure System
for Wood Impregnation

Innovative Design for New Applications

GO FOR NATURE . . .
GO WITH

natex
PROZESSTECHNOLOGIE
Closure system for horizontal high pressure vessels
It has always been a challenge to handle bulky materials in a high pressure environment involving supercritical fluids. In some cases horizontal pressure vessels are required which need an appropriate quick acting closure system with a large diameter.
NATEX developed a solution based on its patent for quick acting closures with segment rings by introducing some modifications.

First industrial application - impregnation of wood
- 3 quick acting closures for wood impregnation in Denmark
- 1,5 minutes opening/closing time
- weight of the closure system 15 t
- simple loading/unloading of the vessel with wood packages
- easy cleaning
Special construction features ensure a homogeneous distribution of CO₂ within the vessel.

Highlights of the new closure system
- Diameter up to 2 m
- Opening / closure times less than 2 minutes
- Design adjustable to different pressures
- Fully automatic manipulation

Supercritical wood impregnation process
The process was developed by FLS miljø in Denmark and replaces conventional wood impregnation methods based on heavy metals and/or organic solvents. It uses organic fungicides dissolved in supercritical CO₂. Impregnation time is short and the whole cross-section of spruce or pinewood is impregnated against rot, fungi and mould. The wood can be machined after impregnation without exposing untreated material. The impregnating agent is colourless and the moisture content of the wood remains unchanged.

For further information please contact:
NATEX
Prozesstechnologie GesmbH
Hauptstrasse 2
A-2630 Ternitz, Austria
Tel.: (43)-2630-32120
Fax: (43)-2630-38163
E-mail: office@natex.at
Internet: www.natex.at

GO FOR NATURE ...