

## SUPREME Ventus® - Air Type Seal



***Optimal Safety,  
Simplicity, Accuracy  
and a Warranty***

Within the SUPREME range, the SUPREME Ventus enjoys the position of most sophisticated air-type seal available. The system offers safety, simplicity, accuracy and guarantees this promise.

### **Safety, Simplicity, Accuracy and Warranty**

**Safety.** The system guarantees zero-emission and contains a fail safe option. **Simplicity.** The system does not contain any moving elements, has only two additional components and is fully self regulatory. The system is fully compatible with regular SUPREME seals. **Accuracy.** Using the patented SUPREME Ventus Valve, the air control unit effectively matches the oil pressure with the water pressure. **Warranty.** We offer an extended warranty to guarantee our promise that maintenance will not be required on the liner and lip seals within the first 5 years (in the event IHC Lagersmit engineers supervised the installation).

### **Working with the force of nature**

The SUPREME Ventus is unique because of its patented SUPREME Ventus valve and air control unit. The system's air pressure effectively follows the water pressure by releasing air into the sea water. Because of the system's restricted orifice, no adjustments or settings have to be made. Working with, rather than controlling the forces of nature, the SUPREME Ventus effectively uses the water pressure to create a permanent air barrier.

### **Air barrier**

The air barrier has several advantages. (1) It effectively separates the stern tube lube oil from the sea water. Hence, it guarantees zero-emission and protects the marine environment. (2) It reduces the wear of the lip seals. This guarantees a longer, more stable working life and stretches the mean time between maintenance.

### **Ease of use and fail safe**

Ease of use is an important design feature. The SUPREME Ventus is kept simple and self regulatory. The system is easy to install and fully compatible with regular aft seals. Its user can trust on a reliable fail-safe option. In case of emergency black-out, an immediate switch is made to regular SUPREME operation mode. Once air supply is restored, the system automatically recovers itself and resumes normal SUPREME Ventus operation.

### **Type approval, Service and Guarantee**

The SUPREME Ventus has officially been approved by Lloyds register, Bureau Veritas and DNV. The SUPREME Ventus system may be used where the Clean Ship or Clean Ship Super Additional Class Notations Applies. As a complementary service, IHC Lagersmit B.V. offers supervision on the installation of the SUPREME Ventus system. Therefore, the guarantee period is extended to 5 years.

## SUPREME Ventus - Air Type Seal

### Benefits

- Zero-emission
- Simplicity (no moving elements)
- Extended warranty (optional)
- Self regulating
- Accuracy SUPREME Ventus valve (in matching air and seawater pressure)
- Reduced wear
- Longer and more stable working life
- Fail-safe option
- Minimal air consumption (max. 30NI per minute)
- Type approval by major classification societies
- In situ seal renewal

### Options

- Installation commissioning
- Extended warranty period
- Split housing parts
- Liner: split version
- Liner: hard metal layer
- Liner: ceramic layer
- Lip seals: FPM
- Hastelloy lip seal springs
- Dirt barrier
- Dirt barrier with protective cover
- Cathodic protection
- Distance ring
- Oil lubrication
- Netcutter
- Wire winder

### System components

- Air control unit
- Drain tank
- SUPREME Ventus Valve (mounted on aft seal)

### Aft seal

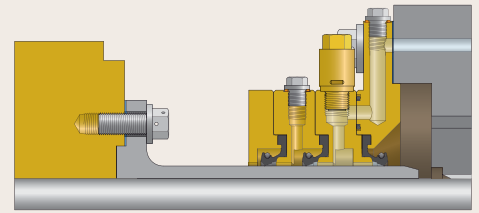
- Any SUPREME seal design. Featuring:
  - Chrome steel liner
  - Bronze housing parts
- SUPREME Ventus Valve

### Forward seal

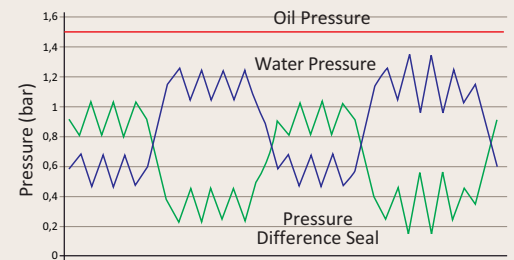
- Chrome steel liner
- Cast iron housing parts

### Other

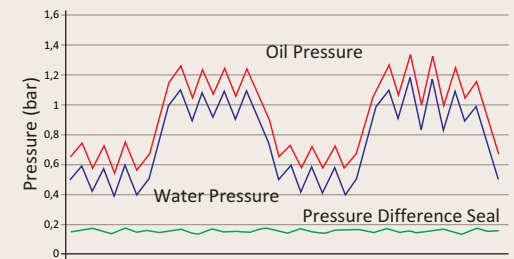
- Pressure-relief valve (for L.O. tank) OR pressurized L.O. tank



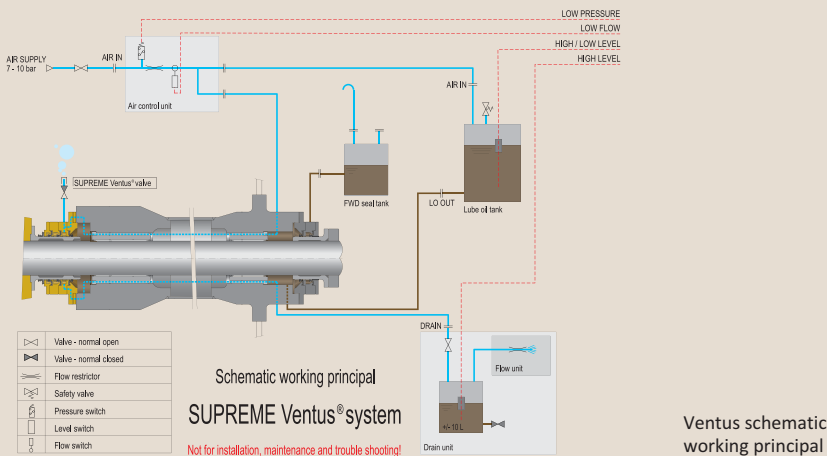
## SUPREME Ventus Aft Seal



## Pressure conventional sealing system



## Pressure SUPREME Ventus sealing system



## IHC Lagersmit

Smitweg 6  
P.O. Box 5  
2960 AA Kinderdijk, The Netherlands

T +31 78 691 04 72  
F +31 78 691 04 77  
sales.lagersmit@ihcmerwede.com  
www.ihclagersmit.com  
www.ihcmerwede.com