

Directive D-0804.3 Storage and Duration of Storage of Packed Machines and Components

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Products:	R-Coupling, S-Coupling, Vorecon, Torque Converter, Heat Exchanger, WinDrive, HyDrive					
Departments:	Sales, Design dept., Development, Quality Assurance, Projecting, Service					
Subject areas:	Preservation, packing, storage					
Confidentiality:	released for external use (custo	omers / subsupp	liers)			



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1 General Storage Requirements

- Basic precondition for the storage is that no aggressive media, such as gases, vapors or aerosols of acids, alkaline or salts can come in contact with the equipment.
- Ensure sufficient stability, also on sloped planes.
- Packed machines and components, called "equipment" in the following, may be stacked or put one on the other only so that the air circulation is not impaired.
- Any equipment has to be easily accessible for inspection and maintenance work:
 - Reading off of humidity indicators / reading off of the Voith Humidity-Temperature-Data-Logger (HTDL)
 - Taking / inspection of equipment
 - Mending of packaging
- Do not unpack cold equipment in warm rooms (below dew point) but only after the temperature has equalized.

2 Requirements to the Storage in the open/outdoors

- Storage areas have to be safe against flooding and be solid enough to avoid that the packed machines and components sink into the mud even in case of longer rainfall; prevent ponding and stagnant water. Position any equipment on squared timbers.
- Avoid direct sunlight as, apart from the detrimental effect of UV radiation, it results in high temperature fluctuations within the packings.
- Secure tarpaulins to resist storms. Ensure that precipitation cannot collect and air circulation is still possible under the tarpaulins.
- Check the condition of the tarpaulins and packings in regular intervals for damages caused by weather, animals and rot. Remedy any defects immediately.



3 Inspection of Storage

On acceptance of the goods, the consignee has to document the following:

- Completeness
- · Condition of equipment / packing
- Value indicated by the humidity indicators and/or reading off of the Voith Humidity-Temperature-Data-Logger (HTDL), if existing



4 Follow-up Inspections

During the storage period, check and record that the storage requirements are met at least every 8 weeks. Inspection of any humidity indicator has to be recorded and/or read out the Voith Humidity Temperature Data Logger (HTDL), if existing.

Evaluation will be made as per the following table:

Value indicated by the indicators	Check intervals
blue	every 8 weeks
30 % pink	every 2 weeks
40 % pink	weekly
50 % pink	Contact Voith

5 Overview

Product	Packing No. to Directive D-0800 (9163625-006212)	Storage period	Storage place	Storage temperature	Temperature variations (daytime / nighttime)	Relative humidity	Storage conditions Illumination			Remarks
					3 4 4			Ozone	Aeration	
Compl. product	No. 1	<24h	indoors	15°C to 25°C	< 3K	< 65%				Preservation measures are to be taken within 24h after receipt.
Compl. product	No. 2	1 year	indoors/outdoors*	-40°C to 50°C						
Compl. product	No. 3	2 years	indoors/outdoors*	-40°C to 50°C						
Spare runner in container	Directive D-0800 Chapter 4		indoors/outdoors*	-40°C to 50°C						Container has been filled with nitrogen. Regularly check the pressure.
Spare parts made of steel (without standard parts)	like compl. product, dependent on the packing	1 year								Spare parts will be packed according to Packing No. 2 as per Directive D-0800 (9163625-006212)
Antifriction bearings, plain bearings		5 years		6°C to 25°C	< 8K	< 65%				
Sealings made of rubber, caoutchouc	Paper or foils of polyethylene or polyamide	2 years**	indoors, cool, dry, low-dust	-10°C to 25°C		< 65%	Incandescent lamp, no sun, weak lighting	none	moderate	See also ISO 2230 / DIN 7716
Hose lines		2 years**	s** (Storage as for sealings made of rubber, caoutchouc)					See also DIN 20066-5		

- It is recommended covering the packages From the date of manufacture