

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Flexible Hoses for CO2 Systems**

with type designation(s)  
**050(X)**

Issued to

**Transfer Oil S.p.A.**  
**Colorno PR, Italy**

is found to comply with

**DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems**  
**DNV GL class programme DNVGL-CP-0183 – Type approval – Flexible hoses**

## Application :

**Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.**

**Temperature range:** -60°C up to +90°C  
**Max. working press.:** 140bar up to 300bar (Refer to certificate)  
**Sizes:** DN 5, 6, 8, 10, 12 and 16

Issued at **Hamburg** on **2017-10-13**

This Certificate is valid until **2022-07-31**.

DNV GL local station: **Milan**

Approval Engineer: **Hagen Markus**



for **DNV GL**  
Digitally Signed By: Drews, Olaf  
Location: DNVGL Hamburg  
Signing Date: 2017-10-16

**Olaf Drews**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

