



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **9443410 HH**

Company **Pix Transmissions Ltd.
J-7, M.I.D.C., Hingna Road
Nagpur, INDIA**

Product Description **FLAME RESISTANT HYDRAULIC HOSES**

Type **1SN / 2SN acc. to EN 853**

Environmental Category **None**

Technical Data / **TECHNICAL DATA**

Range of Application
Liner / Cover: **Synthetic rubber**
Reinforcement: **Steel wire braids**
Size range: **DN 6 up to DN 40**
Pressure range: **225bar up to 400bar / 400bar up to 90bar (1SN/2SN)**
Temperature range:
Hydraulic fluids **-40 [°C] to 100 [°C]**
Air **up to 70 [°C]**
Water-glycol, -oil emulsion **up to 85 [°C]**

RANGE OF APPLICATION

Refer to page 2

Test Standard **VI-7-8 Regulations for the Performance of Type Tests, Part 7 - Guidelines for the Performance of Type Approvals: 2008**

Documents
- Test reports of product tests acc. to hose standard
- Fire resistance test report no.: 120/06, 20.09.2006; 123/06, 127/06, 12.12.2006; 36/05, 10.05.2005; 85/06 20.09.2006; 121/06 20.11.2006
- Technical data sheets and drawings

Remarks **Refer to page 2**

Valid until **2015-08-04**

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Type Approval Symbol



File No. **II.D.01**

Hamburg, **2010-08-05**

Germanischer Lloyd

Hanspeter Raschle

Hagen Markus

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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- Fuel oil, lubricating oil and hydraulic oil systems
- Bilge and ballast systems
- Compressed air systems (pin prick cover is required for air or gas applications above 17 [bar])
- Auxiliary piping systems

The selection of the hoses is to be in accordance with the instructions of the manufacturer.

REMARKS / LIMITATIONS

- The current Rules of Germanischer Lloyd Chapter 2-Machinery Installation, Section 11 are to be observed.
- The use of the hoses outside of the range of application specified above is subject to special consideration by Germanischer Lloyd in each individual case.
- The combination of high temperatures and high pressure reduce the hose life.
- The use of hose assemblies is not permitted in permanently pressurized starting air lines of diesel engines.
- Type approved hoses are to be assembled with fittings by recognized hose assembly manufacturers*.

* See VI - Additional Rules and Guidelines, Part 3 - Machinery Installations, Chapter 9 - Guidelines for the Recognition of Manufacturers of Hose Assemblies and Compensators.

PRODUCTION PLACES

Hoses and end fittings:
Pix Transmissions Ltd.
Nagpur
India

MARKING

Hoses:
Hose brand name - Hose Type - Inside Diameter of hose in Inches - Manufacturing date
PIX X'el - 1SN DN06 - (1/4") - Q1'01

Hose end fittings:
Manufacturer - Product code - nominal size in mm and inch
PIX - PF22 - 13 1/2"

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