

Security - Classification approvals



New IACS P2 regulation
in July 2004:

- Flammable endurance test for connections with gaskets plus
 - Burst pressure test
1. This is required and part of LR type approval
 2. Even without type approval Classifications must check every device with gaskets

P2 Rules for piping design, construction and testing

P2.1 Foreword
(1981)
(Rev. 1
1987)(Rev. 2, Nov. 2001)

The present requirements are related to piping-systems made of carbon, carbon-manganese, alloy steels or non-ferrous material normally installed on board ships for services considered in Table 1.

These requirements cover the following services:

Air, vapour, gas (excluding liquefied gas cargo and process piping), water, lubricating oil, fuel oil, hydraulic fluid systems for steering gear, toxic gas and liquids, cargo oil and tank cleaning piping and open ended lines such as drains, overflows, vents and boiler escape pipes.

They do not include pipes forming integral part of a boiler.

Hydraulic fluid systems other than those for steering gear shall be specially considered by each individual Classification Society.

Piping systems intended for liquefied gases (cargo and process) are dealt with in UR G3 and W1.

These requirements do not apply to cargo piping systems of ships carrying chemicals in bulk.

P2.2 Classes of pipes
(1974)
(Rev. 1
1975
Rev. 2
1987)
(Rev. 3
May
2000)(Rev. 4, Nov. 2001)

For the purpose of testing, the type of joint to be adopted, heat treatment and welding procedure, pipes are subdivided into three classes as indicated in Figure 1 and Table 1.

Security – Flammable endurance test

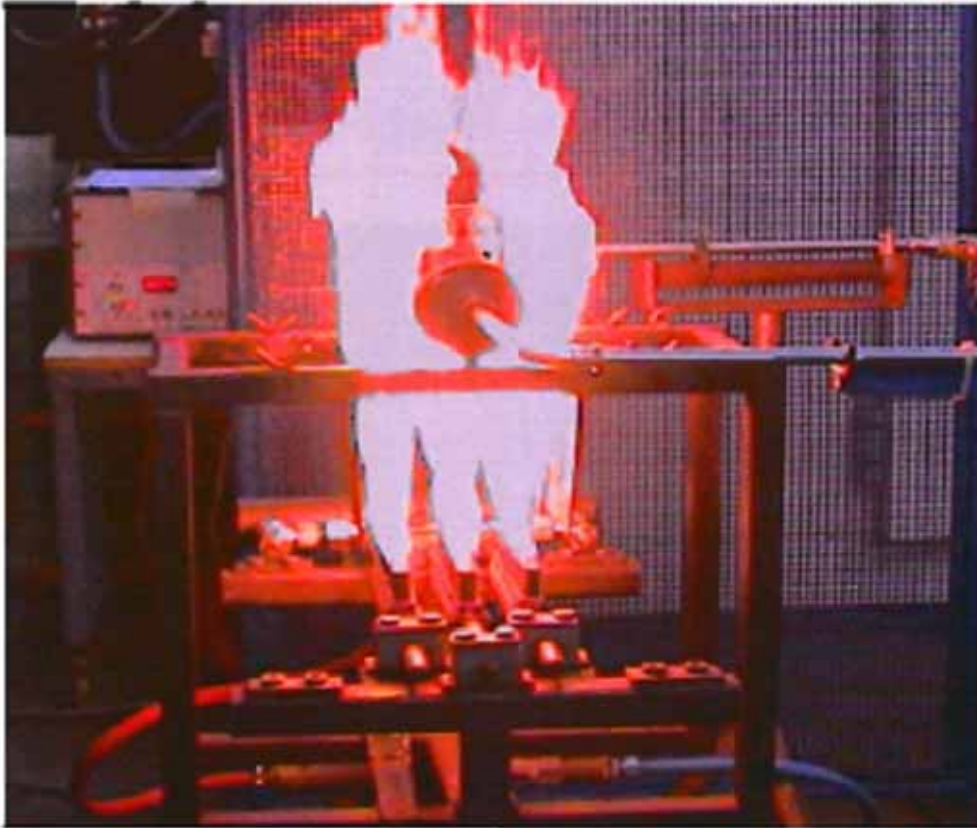


Figure 5: Flame aspect during the test

CONTOIL passed as first product this test and fulfill the IACS requirements 100%



Figure 7: Sensor housing of CONTOIL® OIL flow meter of the nominal size of 50 mm during the pressure test