



Project: **Fugitive Emission Testing**

Client: **Metso Flow control Oy, Vantaa, Finland**

Office: **HELSINKI**

Client's Order Number: -

Date: **20 October 2015**

Order Status: **Complete**

Inspection Dates

First: **02 July 2015**

Final: **28 August 2015**

This certificate is issued to **Metso Flow control Oy, Vantaa, Finland**, to certify that the undersigned surveyors did at their request attend their works in Helsinki on the above dates for the purpose of witnessing fugitive emission test of a Neles X-series metal seated flanged ball valve.

Type: XH04GWTAABRXFFDFA
Rating: ASME 900
Size: 04"
Materials: As stated by manufacturer. See the test report.

The test valve was presented by the manufacturer. The test was conducted in accordance with the ISO 15848-1 (First edition 2006-01-15) standard.

Leakage measurements were witnessed as indicated in the enclosure 5 of the test report. The valve behaviour between the measurements and witness points was verified from the data collected by Metso Flow control Oy as well as from the test report. Throughout the test the valve performed satisfactorily and met the requirements set in ISO 15848-1 (First edition 2006-01-15) standard as follows:

Endurance class: CO-2 (1500 Mechanical Cycles)
Temperature class: from -29°C to +400°C (Temperature test at +400°C)
Tightness class: BH

Visual examination after the test confirmed that design was in accordance with the manufacturer's drawing and parts list. Metso Flow control Oy Test Report dated 02.10.15 was reviewed, stamped and signed.

This test qualifies also valve types as follows:

- Sizes between and including: XH2"...14"/DN25...DN350 (full bore); XJ3"...16" DN80...DN400(reduced bore)
- Pressure ratings, up to and including: ASME class900 / EN PN160
- Valves with live loaded graphite packing

Jyrki Hentula
Helsinki Office



Lloyd's Register

Lloyd's Register EMEA

LR031.1.2013.12

Jyrki Hentula
Surveyors to Lloyd's Register EMEA

A subsidiary of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.