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Test Certificate
for fugitive emission by leak test carried out on butterfly valve made by Italvalv S.r.l. in according to the requirements of Standard ISO 15848-1:2006 Ed.

Date: **February 16, 2015**

Test Report reference No.: **P 287 15 071 Rev.0**

Applicant:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Manufacturer of Valve:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Manufacturer of Seal:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Test Location:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Reference Codes:	**ISO 15848-1:2006 Ed.**
Item tested:	**Butterfly valve Type NPS 4" (DN 100), class rating ANSI 300, flanged butterfly valve, Dwg. No. RSV-1502-07 Rev. 0, Flange connection and Stem Diameter 35 mm, described in the drawing listed above.**
Purpose of test:	**To evaluate the leak test performance of the above mentioned valve, according to Standard EN ISO 15848-1:2015 Ed. ISO FE BH - CC3 - SSA 0 - t(RT to 200°C) - CL.2500 - ISO 15848-1/2006 oct.**

Pogliano Mil. (MI) - Italy

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Test Statement
for fugitive emission by leak test carried out on stem seal packing made by Italvalv S.r.l. reference to the requirements of Standard ISO 15848-1:2015 Ed.

Date: **February 18, 2016**

Test Report reference No.: **P 287 16 032 Rev.0**

Applicant:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Manufacturer of Valve:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Manufacturer of Seal:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Test Location:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Reference Codes:	**ISO 15848-1:2015**
Item tested:	**Stem seal packing, detail Dwg. No. PR-15-60 Rev. 0, stem Diameter 30 mm.**
Purpose of test:	**To evaluate the leak test performance of the above mentioned seal stem packing, reference to Standard EN ISO 15848-1:2015 Ed. ISO FE BH - CC3 - SSA 0 - t(RT to 200°C) - ISO 15848-1/2015.**

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Test Certificate
for fugitive emission by leak test carried out on butterfly valve made by Italvalv S.r.l. according to the requirements of Standard ISO 15848-1:2015

Date: **March 3, 2016**

Test Report reference No.: **P 287 16 047 Rev.0**

Applicant:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Manufacturer of Valve:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Manufacturer of Seal:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Test Location:	**Italvalv S.r.l.** **Via del Corriere, 27** **I-15060 S. Antonio di Basaluzzo (AL)**
Reference Codes:	**ISO 15848-1:2015**
Item tested:	**Butterfly valve Type NPS 32" (DN 800), class rating 900, Dwg. No. WLY9-FY9-LM3200 Rev. 0, stem Diameter 150 mm.**
Purpose of test:	**To evaluate the leak test performance of the above mentioned valve, according to Standard EN ISO 15848-1:2015 ISO FE BH - C03 – SSA 0 - t(RT to 200°C) – CL 900 - ISO 15848-1/2015.**

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Test Certificate
on leak test carried out on

DN 5" Class 300

Butterfly valves FK3Ln Series made by Italvalv S.n.c.

in relation to the requirements of Section 5.2.6.3 of TA-Luft
and in according to VDI 2440 Ed. 11/2000 and ISO 15848-1

Applicant:	Italvalv S.n.c. Strada delle Corriere 27 15060 Basaluzzo (AL) - Italy
Manufacturer of seal:	Italvalv S.n.c.
Test location:	Italvalv S.n.c. - Basaluzzo (AL) - Italy
Test period:	December 15, 2010
Requirements of TA-Luft:	In its version of 12 December 2002, Section 5.2.6.3, TA-Luft requires: "As a rule, flange connections shall be used only in those cases where they are necessary for reasons of processing, safety or maintenance. Leak proof flange connections to VDI 2440 (November 2000 version) shall be used then. A type test to VDI 2440 is to be carried out to verify compliance with the specific leakage rate of 10^{-5} kPa l/(s.m)."
Item tested:	DN 5" Class 300 Butterfly valves made by Italvalv S.n.c. Size 5", class rating 300 LBS, RF flanged butterfly valve, Serial Number 10MG45/1 Dwg. No. FK3LM0500 rev. 0, RF Flange connection and Stem Diameter 44 mm; described in the drawing No. WS0009 rev. 0
Scope of test:	The leak test on the above-mentioned test samples. Leakage test as described in VDI 2440: Installation test samples with defined pressure per unit area of 43.8 bar at room temperature and 200 °C, after 2500 switching cycles. Then a leak test to VDI 2440 and ISO 15848-1was carried out with a total bolt load that corresponds to an effective pressure per unit area of 43.8 bar related to the dimensions of the seal.

Test No.: 28711027

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