TEST REPORT - 2.2

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A) Material tests

B) Inspection tests

Valve description: BOA-R Non-return valve
Type: **BOA-R DN 15 - 350 PN 16**

Materials			
	Body:	EN-GJS 400-18-LT (5.3103) (JS1025 / GGG 40.3)*	EN 1563
	Cap:	EN-GJS 400-18-LT (5.3103) (JS1025 / GGG 40.3)*	EN 1563

* old marking

On the basis of continuous shop recordings we certify the results are based on EN 10204 as mentioned below:
Mean values of the statistic evaluation of test records of the material suppliers.
The material was subject to a heat treatment.

A) Material tests:

Mean values of the statistic evaluation of test records of the material suppliers.

Chemical composition % in weight:

	C	Si	Mn	P	S	Mg
EN-GJS 400-18-LT	3,74	2,04	0,21	0,045	0,011	0,048

Mechanical-technological values at ambient temperature:

	Tensile Strength Rm (N/mm^2)	0,2% - Proportional Elongation Rp0,2(N/mm^2)	Percentage Elongation after Fracture A5 (%)	Impact Energy AV(ISO-V) J	Hardness Brinell HB
EN-GJS 400-18-LT	417	276	23	16	144

B) Inspection tests of valves:

Pressure test	EN 12266-1/P10	Test pressure (bar):	1,5 x PN
Leak test	EN 12266-1/P11	Test medium:	Water
Seat leak test	EN 12266-1/P12	Test pressure (bar):	1,1 x PN
		Test medium:	Water

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Operative quality assurance plant 1110

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