



# valveIT<sup>®</sup>

Via Caduti di Reggio Emilia 27, 40033  
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## LABORATORY PRICELIST

PRO AT FLUID CONTROL





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The **execution** of the tests will take place according to the **order of acceptance**.

The time to perform the tests and issue certificates will be communicated at the time of samples readiness basing on the number and type of tests required. Generally, the maximum time for the certificate release, as well as the necessary minimum time for the test execution according to related standards, is **10 days working**.

Accordingly with the laboratory commitments, an urgent execution of test procedures (within 3 working days) can be agreed with an **extra cost of 50%**.

The Client and any other outsiders are **not allowed** to attend the trials unless explicitly agreed.

The test regulation applied is meant to be the last in force or one for which the Laboratory is accredited.


Whether tests with specific equipment not listed in the offer or **Third Party Inspector's attendance** (TÜV Nord, TÜV Sud, TÜV Rheinland, DNV etc.) is required, **extra costs** will be applied.

At the end of the performance it is emitted **regular invoice** to the balance of which will have to provide as previously established agreements.



TABLE 1 - TEST OF CORROSION

Test	Duration	Price [€]	Machining
ASTM A262 Practice A	120 h	200,00 €	Included
ASTM A262 practice B	24 h	220,00 €	Included
ASTM A262 practice B	120 h	300,00 €	Included
ASTM A262 Practice C	5 cycles 48 h	420,00 €	Included
ASTM A262 Practice C	10 cycles 48 h	820,00 €	Included
ASTM A262 practice E	24 h	230,00 €	Included
ASTM A262 practice E	48 h	250,00 €	Included
ASTM A262 practice E	72 h	270,00 €	Included
ASTM A262 Practice F	120 h	300,00 €	Included
ASTM G28 method A	24 h	190,00 €	Included
ASTM G28 method A	120 h	300,00 €	Included
ASTM G28 method B	24 h	190,00 €	Included





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ASTM G48 method A	24 h	190,00 €
ASTM G48 method A	48 h	230,00 €
ASTM G48 method A	72 h	240,00 €
ASTM G48 method B	24 h	190,00 €
ASTM G48 method B	48 h	230,00 €
ASTM G48 method B	72 h	240,00 €
ASTM A923 met.C	24 h	200,00 €
ISO 3651.1	5 cycles 48 h	420,00 €
ISO 3651.2 A method	20 h	230,00 €
ISO 3651.2 Method B	20 h	236,00 €
ISO 3651.2 method C	20 h	220,00 €
Heat treatment for low carbon steels and stabilized	Euro 30,00 x lot up to 5 lots	



**TABLE 2 - MECHANICAL TESTS**

Essays with thickness <10 mm

Test	Temperature	Cost [€] Processing + test		
		Carbon steel	Stainless steel	Nickel & special alloy
Traction (UNI-EN-ISO 68921; ASTM E8; ASTM A370)	Environment	52,00 €	64,00 €	80,00 €
Fold (UNI EN ISO 7438 5173-ASTM E290 - E190)	-	32,00 €	36,00 €	52,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	Environment	50,00 €	64,00 €	74,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	+ 19 ° ÷ -60 ° C	60,00 €	70,00 €	80,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	-÷ 61 ° -196 ° C	64,00 €	74,00 €	84,00 €



**TAB.3 - MECHANICAL TESTS**

Essays with a thickness of 10 ÷ 40 mm				
Test	Temperature	Cost [€] Processing + test		
		Carbon steel	Stainless steel	Nickel & special alloy
Traction (UNI-EN-ISO 68921; ASTM E8; ASTM A370)	Environment	56,00 €	68,00 €	84,00 €
Fold (UNI EN ISO 7438 5173-ASTM E290 - E190)	-	36,00 €	40,00 €	56,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	Environment	60,00 €	76,00 €	88,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	+ 19 ° ÷ -60 ° C	70,00 €	80,00 €	96,00 €
Resilience (Terna) EN ISO 148.1- ASTM A370 / E23)	÷ 61 ° -196 ° C	74,00 €	84,00 €	100,00 €



**TAB.4 - MECHANICAL TESTS**

Essays with a  
 thickness of 40 ÷ 80 mm

Test	Temperature	Cost [€] Processing + test		
		Carbon steel	Stainless steel	Nickel & special alloy
Traction (UNI-EN-ISO 68921; ASTM E8; ASTM A370)	Environment	68,00 €	80,00 €	100,00 €
Fold (UNI EN ISO 7438 5173-ASTM E290 -E190)	-	40,00 €	44,00 €	60,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	Environment	72,00 €	96,00 €	114,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	+ 19 ° ÷ -60 ° C	80,00 €	104,00 €	120,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	-÷ 61 ° -196 ° C	84,00 €	110,00 €	124,00 €



**TAB.5 - MECHANICAL TESTS**

Essays with a thickness >  
80 mm

Test	Temperature	Cost [€] Processing + test		
		Carbon steel	Stainless steel	Nickel & special alloy
Traction (UNI-EN-ISO 68921; ASTM E8; ASTM A370)	Environment	80,00 €	100,00 €	120,00 €
Fold (UNI EN ISO 7438 5173-ASTM E290 -E190)	-	44,00 €	48,00 €	68,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	Environment	100,00 €	130,00 €	160,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	+19 ° ÷ -60 ° C	110,00 €	136,00 €	166,00 €
Resilience (Terna) (EN ISO 148.1- ASTM A370 / E23)	-÷ 61 ° -196 ° C	114,00 €	140,00 €	170,00 €





TAB.6 - TESTS HARDNESS

Price [€]				
Test	To mark	Machining		
		Carbon steel	Stainless steel	Nickel & special alloy
Rockwell hardness (UNI-EN-ISO 6508.1; ASTM E18;) Brinell Hardness (UNI-EN-ISO 6506.1; ASTM E10, ASTM A370) Vickers Hardness (UNI-EN-ISO 6507.1; ASTM E384; UNI EN ISO 9015.1 /2	6,00 €	20,00 €	24,00 €	32,00 €



Table 7 - METALLOGRAPHIC TESTS			
Preparing samples for assays with a thickness of 3 to 50 mm			
Test	Cost [€] Processing + test		
	Carbon steel	Stainless steel	Nickel & special alloy
Macrographic examination	110,00 €	120,00 €	140,00 €
Micrographic examination	90,00 €	100,00 €	110,00 €





Table 8 - METALLOGRAPHIC TESTS			
Preparing samples for assays with a thickness of <3 &> 50 mm			
Test	Cost [€] Processing + test		
	Carbon steel	Stainless steel	Nickel & special alloy
Macrographic examination	120,00 €	136,00 €	150,00 €
Micrographic examination	100,00 €	106,00 €	112,00 €



Table 9 - EXAMS METALLOGRAPHIC

Test	Price	Machining
Count ferrite ASTM E562 (32 fields)	360,00 €	SEE TAB. 7- 8
Determinations of ASTM E45 met.A inclusions	84,00 €	SEE TAB. 7- 8
Determinations of ASTM E45 met.D inclusions	230,00 €	SEE TAB. 7- 8
Determination of Grain Austenitic ASTM E112 (austenitic steel)	100,00 €	SEE TAB. 7- 8
Determination of Grain Ferritic ASTM E112 ferritic steels	100,00 €	SEE TAB. 7- 8
Determination of Grain Austenitic carbon steel (KHON method)	230,00 €	SEE TAB. 7- 8






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Determination of Grain Austenitic carbon steel (MC method QUAID-EHN)	300,00 €	SEE TAB. 7- 8
Determination of the corrosion depth	100,00 €	SEE TAB. 7- 8
Determination of intermetallic phases and /or carbides	100,00 €	SEE TAB. 7- 8
Counting of intermetallic phases and /or precipitates	440,00 €	SEE TAB. 7- 8
Micrographic analysis according to ASTM A923 met.A	100,00 €	SEE TAB. 7- 8
Photo subsequent to the first	20,00 €	



TAB.10- NDT	
Controls in place	
Test	Cost [€ / h]
Examination by means of ultrasound (search defects or thickness measurement) including equipment and consumables	90,00 €
Examination by means of penetrants including consumables	90,00 €
Examination using magnetic particles including equipment and consumables	90,00 €






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Offsite Controls	
Test	Cost [€ / h]
Examination by means of ultrasound (search defects or thickness measurement) including equipment and consumables	110,00 €
Examination by means of penetrants including consumables	110,00 €
Examination using magnetic particles including equipment and consumables	110,00 €
ADDITIONAL COSTS : Personal Performance for travel hours 80.00 [€ / h] Transport costs 1.20 [€ / km] Travel expenses (nights, tolls, lunches etc.) cost	





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Offsite Controls	
Test	Cost [€ / h]
Examination by means of ultrasound (search defects or thickness measurement) including equipment and consumables	110,00 €
Examination by means of penetrants including consumables	110,00 €
Examination using magnetic particles including equipment and consumables	110,00 €
ADDITIONAL COSTS : Personal Performance for travel hours 80.00 [€ / h] Transport costs 1.20 [€ / km] Travel expenses (nights, tolls, lunches etc.) cost	






Table 11 - NDT	
Controls in place	
Test	Price
Determination ferrite with portable instrument (a significant cost)	5,00 €
PMI with portable instrument (Niton / Spectroport)	120,00 €
Determination roughness with portable instrument (a measuring cost)	40,00 €
Offsite Controls	
Test	Cost [€/h]
Determination ferrite with portable instrument	160,00 €



Table 11 - NDT	
Controls in place	
Test	Price
Determination ferrite with portable instrument (a significant cost)	5,00 €
PMI with portable instrument (Niton / Spectroport)	120,00 €
Determination roughness with portable instrument (a measuring cost)	40,00 €






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Offsite Controls	
Test	Cost [€/h]
Determination ferrite with portable instrument	160,00 €
PMI with portable instrument (Niton / Spectroport)	160,00 €
Determination roughness with portable instrument	160,00 €
ADDITIONAL COSTS: Personal Performance for travel hours 80.00 [ € / h ] Transport costs 1.20 [ € / km ] Travel expenses (nights, tolls, lunches etc.) cost	





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Table 12 - HEAT TREATMENT

DESCRIPTION OF TREATMENT	Price
Fixed fee for heat treatment (with the exception of the sensitization treatment of corrosion coupons)	140,00 €
Cost per hour of treatment	12,00 €
Heat treatment cost awareness of corrosion coupons	60,00 €
Treatment Cost Step Cooling API RP 934 (240h)	1.900,00 €





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Tab.13 - CHEMICAL ANALYSIS quantometric	
DESCRIPTION OF TREATMENT	Price
Carbon steel	170,00 €
Stainless Steel	190,00 €
Nickel & special alloy	190,00 €

