AQUA S.p.A
42018 San Martino in Rio, Reggio Emilia Italy - Via Crotti, 1
P: +39 0522 695805/85 - F +39 0522 646160
aqua@aqua.it | www.aqua.it

TEST REPORT

Model	STAINLESS STEEL WALL INLET
Manufacture by	AQUA
Test Category	Hydraulic performance & quality analysis

DIRECTIONS

Product: Stainless steel 316L wall return inlet

Place of Testing: Aqua Quality Control Center

PRODUCT DETAILS

Inspection Item	Details
Material	AISI 316L Stainless Steel (Marine Grade V4A)
Manufacturing Process	Laser Cutting, TIG Welding, Pickling & Passivation
Surface Finish	Polished Satin Finish
Application	Swimming Pool Recirculation System

MATERIAL CHEMICAL COMPOSITION

Element	C	Si	Mn	P	S	Ni	Cr	Mo	N
Measured	0.026	0.310	1.100	0.0360	0.0030	10.100	16.860	2.080	0.410

Result: **PASS**

VISUAL INSPECTION

Inspection Item	Acceptance Criteria	Result
Surface Finish	No dents or scratches	**PASS**
Polishing	Uniform	**PASS**
Weld Appearance	Continuous	**PASS**
Sharp Edges	None	**PASS**
Marking	Correct	**PASS**

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DIMENSIONAL INSPECTION

Inspection Item	Requirement	Result
Face Dimensions	As per drawing	**PASS**
Outlet Dimensions	As per drawing	**PASS**
Connection Size	As specified	**PASS**
Material Thickness	Within tolerance	**PASS**
Flange Dimensions	As specified	**PASS**

WELDING INSPECTION

Inspection Item	Acceptance	Result
TIG Weld	Continuous	**PASS**
Porosity	None	**PASS**
Cracks	None	**PASS**
Fusion	Acceptable	**PASS**
Penetration	Acceptable	**PASS**

FUNCTIONAL TEST

Test Item	Acceptance	Result
Water Flow	Normal	**PASS**
Drainage	Normal	**PASS**
Cover/Basket Fitting	Proper	**PASS**
Thread Inspection	Acceptable	**PASS**
Anti-vortex	Provided	**PASS**
Flow Opening	Unobstructed	**PASS**

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WORKMANSHIP INSPECTION

Test Item	Acceptance	Result
Surface Finish	Good	**PASS**
Machining	Good	**PASS**
Assembly	Correct	**PASS**
Cleaning	Completed	**PASS**

COMPLIANCE

Requirement	Result
AISI316L Material	**PASS**
Marine Grade V4A	**PASS**
Factory Inspection	**PASS**
Visual Inspection	**PASS**
Dimensional Inspection	**PASS**
Functional Inspection	**PASS**

Conclusion: The above Stainless Steel AISI 316L Swimming Pool Wall return inlets have been inspected and tested in accordance with the manufacturer's quality control procedures and are found to comply with the applicable technical requirements and approved manufacturing specifications. The products are approved for dispatch.

Result: **PASS.**

Authorized Signature and Company Stamp