



TEST REPORT

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

DIRECTIONS

Product: Stainless steel 316L vacuum fitting

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

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

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 Vacuum fittings 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

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