

TEST REPORT

REPORT NO. : 25202100955

SAMPLES: SHATTAFF MIXER WITH SHATTAFF
SPARY

APPLICANT: ZHEJIANG JIUHUAN SANITARY WARE
CO., LTD

DATE OF TEST: 26/03/2021~02/04/2021 (DD/MM/YY)

STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS

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Name of Sample	SHATTAFF MIXER WITH SHATTAFF SPARY	Type	Bidet faucet/ Ablution spray
Mark of Samples	S1501	Description of Samples	The sample is sound, intact and fit for test.
Quantity of Samples	1 Set	Nominal Size	NPS-3/4
Applicant	ZHEJIANG JIUHUAN SANITARY WARE CO., LTD	Address of Applicant	DONGGANG INDUSTRIESANMEN DISTRICT, TAIZHOU CITY, ZHEJIANG PROVINCE, CHINA
Telephone of Applicant	86-13738657357	Fax of Applicant	86-757-81825000
Source of Samples	Sample selected by applicant	Received on	17/03/2021
Test Standard	1. SASO 2655/2019 Sanitary appliances: General requirements for plumbing fixture fittings 2. M.A-156-16-04-06 Saudi Standards, Metrology and Quality Organization SASO Technical Regulation for Water Conservation Devices		
Conclusion of Test	The results conform to the requirements of test standard with respect to the test items.		
Stamp of Test Unit	Date: 02/04/2021	Address of Test Unit	Address : 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqiyi Road, Chancheng District, Foshan, Guangdong, China (528000) Tel: 86-757-83960558 86-757-83827991 Fax: 86-757-83827971 E-mail: fsiqtc@163.com url: http://www.fsiqtc.com/
Notes	1. All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations. 2. This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3. The results in this report apply to the samples only. 4. The sample information are declared by applicant, and laboratory is not responsible for the authenticity.		
Possible test case verdicts	1. P(ass) : test item does meet the requirement. 2. N/A : test case does not apply to the test item. 3. F(ail) : test item does not meet the requirement. 4. —: verdict/test was not carried out.		

Tested by _____ Inspected by _____ Approved by _____

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Photo of Samples



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Part 1 Test results according to SASO 2655/2019

SASO 2655/2019 Sanitary appliances: General requirements for plumbing fixture fittings								
Clause	Characteristics		Requirements			Results		Verdicts
5.2	Coating							
5.2.2	Corrosion (all substrates and coatings)	ASTM B117 (neutral salt)	Coatings shall not show more than one surface defect in any 650 mm ² area of the significant surface or up to three surface defects on a 25mm length of parting line, the surface defects shall be not larger than 0.8 mm in any dimension. If widely scattered surface defects are observed after testing (as occasionally occurs), such defects shall not significantly deface or adversely affect the function of the coated part.			Compliant		P
5.3	Pressure and temperature							
5.3.1	Static and dynamic seals		Seals of plumbing supply fittings and accessories, except those of automatic compensating valves, shall not leak or otherwise fail.			No leak and otherwise fail		P
5.3.2	Burst pressure		Fittings shall withstand a hydrostatic burst pressure test without permanent distortion or failure of the pressure envelope.			Without permanent distortion and failure of the pressure envelope.		P
5.3.3	Cross-flow check valves		Cross-flow check valves shall not leak more than 35 mL/min out of one supply inlet when the opposite supply inlet is pressurized.			No leak		P
5.4	Flow rate		Type	Min, L/min	Max, L/min	Min, L/min	Max, L/min	P
			Bidet ablation spray (hand-held spray)	5.7	8.0	6.2	7.2	
5.5	Operating requirements		Except for accessible designs and tub-to-shower and tub spout diverters, the torque or force required to open, operate, and close a manually activated valve or operating control shall not exceed the applicable operating torque or linear force specified.			Compliant		P
			Swing spouts, including those with pullout spouts, shall be tested at a flowing pressure of 860 ± 14 kPa, with water at 10 ± 6 °C. The force required to turn the spouts shall not exceed 45 N measured at the end of the spout.			—		N/A
5.7	Resistance to installation loading							
5.7.1	Bending strength		No cross-section of a rigid waterway on the pressure side of a terminal supply fitting or on both sides of a non-terminal supply fitting shall be damaged when tested in accordance with Clause 5.7.1.2. This requirement shall not apply to waterways through a solder joint.			Compliant		P

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SASO 2655/2019 <i>Sanitary appliances: General requirements for plumbing fixture fittings</i>				
Clause	Characteristics	Requirements	Results	Verdicts
5.7.2	Thread torque strength	Metal tapered pipe size threaded connections shall withstand the torque load specified in Table 4 without evidence of cracking or separation. The torque shall be applied with a torque wrench that has a maximum allowable inaccuracy of 3% of the full-scale reading. This test shall apply to NP T supply connections only.	Compliant	P
		Threaded connections intended to seal water shall not crack, strip, or leak when tested in accordance with Clause 5.3.1.3 with the threaded connections tightened to (a) the torque required to affect the seal; and (b) 150% of the torque required by item.	Compliant	P
		Threaded supply connections shall comply with Clause 5.3.2.		
		Clauses 5.7.2.1 to 5.7.2.3 shall not apply to factory-assembled connections.		
5.8	Resistance to use loading			
5.8.1	Operating controls	Operating controls that close or open the water supply shall withstand a torque or force, applied in the manner required to close or open the valve, three times greater than that specified in Table 2. Fracture of the handle or stem shall constitute failure.	Compliant	P
		Wall-mounted bath or shower operating controls that can be grasped shall not pull off when subjected to an axial force of 445 N.	—	N/A
		Operating controls other than those specified in Clause 5.8.1.2 shall not pull off when subjected to an axial force of 45 N	—	N/A
5.8.2	Maintenance of installed position	Hand-held showers provided with a lug or other device to hang the hand-held shower shall be installed in their mounted position and shall have a force of 67 N applied at the center of the hand grip for 1 min. There shall be no damage that would prevent the hand-held shower from being re-hung in its intended position.	—	N/A
5.8.3	Swing spout strength	When tested in accordance with Clause 5.8.3.2, swing spouts shall withstand a mass of 6.4 kg attached at the spout outlet and the angle at the spout outlet shall not change by more than 15°. This test shall not apply to pullout spouts.	—	N/A

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Part 2 M.A-156-16-04-06

<i>M.A-156-16-04-06</i> <i>Saudi Standards, Metrology and Quality Organization SASO</i> <i>Technical Regulation for Water Conservation Devices</i>							
A) Maximum flow rate							
Product	Type		Requirements		Results		Verdicts
			Minimum Flow rate (L/min)	Maximum Flow rate (L/min)	Minimum Flow rate (L/min)	Maximum Flow rate (L/min)	
Faucet (Taps)	Mixers	Ablution spray (bidet)	5.7	8	6.3	7.3	P
B) Nominal Flow rate table for water conservation devices							
Product Type	Requirements		Results			Verdicts	
	Nominal Flow Rate, Q_{nom} (L/min)	Water Efficiency Rating	Test pressure (bar)	Flow Rate (L/min)	Nominal Flow Rate Q_{nom} (L/min)		
Bidet faucet	$8.0 \geq Q_{nom} > 7$	B	—	—	—	N/A	
			—	—			
			—	—			
	$7 \geq Q_{nom} \geq 5.7$	A	1.5	6.28	6.8	P	
			3.0	6.94			
			4.5	7.26			

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End of the Report