INSPECTION CERTIFICATE

MESSRS	IMPOFER S.A.S.
DELIVER To	
JOB NAME	
JOB No.	
P.O.No.	NIC5778
PRODUCT CODE	206A 1/2

Certificate No.
1020895169-001-01-02

Issue Date : 2022/07/29

TOYO

SPECIFICATION

Manuf No.	1020895169-001
Description	CLASS 125 CAST BRONZE GATE VALVE SCREWED ENDS
Figure	125E-BS-NR-NPT<UL1R1>(N)1/2
Size	1/2 inch(B)
Quantity	10032
Valve No.	
Item No.	
Kiki No.	

MAIN PARTS

No.	Name of parts	Material
001	BODY	B 62
002	BONNET	B 62

TEST

Pressure test	Judge.	Inspection fluid and pressure		
Shell	Good	Hydro	2.07	MPa
	Good	Air	0.6	MPa
Seat		Hydro	-	
	Good	Air	0.6	MPa
Back seat		Hydro	-	
		Air	-	

Item	Judge.	Attached sheet
Material	Good	Material Test Result
Dimension	Good	
Visual	Good	
Operation	Good	

NONDESTRUCTIVE EXAMINATION

Type of examination and judgement	Attached sheet

REMARKS

REPRESENTATIVE TEST BY HYDRAULIC SHELL TEST HAS BEEN PERFORMED

Witnessed by

Hiroshi Nakagomi
KITZ CORPORATION
QC Manager

[KITZ Thailand - TAILAND]

We hereby certify that the articles listed above are satisfactory in accordance with the requirements of the standard and purchase order.

MATERIAL TEST RESULT

MESSRS	IMPOFER S.A.S.
JOB NAME	
JOB No.	
P.O.No.	NIC5778
PRODUCT CODE	206A 1/2

Certificate No.
1020895169-001-01-02-Z1

Issue Date : 2022/07/29

TOYO

Figure	125E-BS-NR-NPT<UL1R1>(N)1/2	Valve No.	
	Material ASTM B 62	Item No.	

№	Charge No.	Display No.	Name of Parts		
1	21030401-1		BODY	BONNET	
2					
3					
4					

CHEMICAL COMPOSITION %

Element	Cu	Sn	Pb	Zn	Fe	Sb	S	P	Al	Si							
Spec. / №	84.0 86.0	4.0 6.0	4.0 6.0	4.0 6.0	Max 0.30	Max 0.25	Max 0.08	Max 0.05	Max 0.005	Max 0.005							
1	84.3	4.4	5.3	5.7	0.03	0.06	0.03	0.03	0.000	0.000							
2																	
3																	
4																	

Element	Ni+Co	Cu+Other Elements			
Spec. / №	Max 1.0	Min 99.3			
1	0.2	99.7			
2					
3					
4					

TENSION TEST **IMPACT TEST**

Item			Tensile str.	Yield str.	Elongation					
Unit			MPa	MPa	%					
Spec. / №			Min 205	Min 95	Min 20					
1			233	106	25					
2										
3										
4										

Item										
Unit										
Spec. / №										
1										
2										
3										
4										

HEAT TREATMENT °C

№	Spec.		
1			
2			
3			
4			

N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling
WQ:Water Quenching OQ:Oil Quenching WC:Water Cooling FC:Furnace Cooling ST:Solution Treatment

REMARKS

EN10204 Type 2.2

Reviewed by

Hiroshi Nakagomi
KITZ CORPORATION
QC Manager

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