



This certifies that

EUROPEAN CASTING INDUSTRY SRL

has had the undermentioned product(s) examined, tested and certified as being of an appropriate quality and standard as required in the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws, subject to scheme requirements being met when installed.

Model Numbers

**BR 432 (BRONZE GLOBE VALVE) STOP VALVES: ½" TO 2"
BSP (F) INLET/OUTLET**

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

June 2026

Certificate No.

2106001

A handwritten signature in blue ink, appearing to read 'Ian Hughes', with a stylized flourish at the end.

Ian Hughes,
WRAS Approvals Manager



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Model Numbers

BR520 GATE VALVES

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

October 2025

Certificate No.

2010406

A handwritten signature in blue ink, appearing to read 'Ian Hughes', with a long horizontal flourish extending to the right.

Ian Hughes,
WRAS Approvals Manager



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EUROPEAN CASTING INDUSTRIES S.R.L

has had the undermentioned product(s) examined, tested and certified as being of an appropriate quality and standard as required in the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws, subject to scheme requirements being met when installed.

Model Numbers

BR525 STOP GATE VALVE

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

December 2025

Certificate No.

2012010

A handwritten signature in blue ink, appearing to read 'Ian Hughes', with a long horizontal flourish extending to the right.

Ian Hughes,
WRAS Approvals Manager



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has had the undermentioned product(s) examined, tested and certified as being of an appropriate quality and standard as required in the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws, subject to scheme requirements being met when installed.

Model Numbers

BR825 DOUBLE REGULATING VALVES

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

January 2027

Certificate No.

2201815

A handwritten signature in blue ink, appearing to read 'Ian Hughes', with a stylized flourish at the end.

Ian Hughes,
WRAS Approvals Manager



This certifies that

EUROPEAN CASTING INDUSTRIES ECI S.R.L

has had the undermentioned product(s) examined, tested and certified as being of an appropriate quality and standard as required in the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws, subject to scheme requirements being met when installed.

Model Numbers

BR118 SPHERICAL VALVES

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

November 2025

Certificate No.

2011810

A handwritten signature in blue ink, appearing to read 'Ian Hughes', with a stylized flourish at the end.

Ian Hughes,
WRAS Approvals Manager



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Model Numbers

BR220 Y`-PATTERNED STRAINERS

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Approvals Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

August 2025

Certificate No.

2008812

A handwritten signature in blue ink, appearing to read 'Ian Hughes', with a long horizontal flourish extending to the right.

Ian Hughes,
WRAS Approvals Manager



European Casting Industry Srl WARRANTY CERTIFICATE

1 Year Warranty on ECI Products (This is a Limited Warranty)

This is to certify that the valves and other products have a guarantee of 1 year from the date of shipment against any manufacturing defects in materials, on condition that they are installed and used in correctly according to instructions issued by ECI Srl. Any defective materials will be replaced by the manufacturer free of charge provided that inspection takes place and the product is found to be defective. This warranty is conditioned on the purchaser's immediate written letter to ECI Srl or sole distributors of ECI in the region where the products are sold upon the discovery of the defect.

This Warranty will not be applicable in case of products modified, adjusted, repaired and altered by non ECI employees or without consent from ECI Srl.

European Casting Industry Srl
Via D'Azeglio 57
40123 Bologna BO, Italy

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40123 Bologna - Italia
P. Iva 03228761205
info@ecivalve.com

Test Report

No.: BR118-DN15

Dept.	Metalwork Workshop			Inspection Date	May 1 st 2020	Brand	ECI
Description	Bronze Ball Valve			Model No.	BR118	Size	1/2”
Qty for Inspection	2243 sets			Qty for Inspection	2243Sets	Pressure Rating	2.5MPa
Details of Inpection	Standard Requirement				Inspection Status		
					Pass	Failed	Results
Up seal Test	Not Available				2243	0	OK
Body	Hydraulic test 3.75MPa, Keep 15s, without any leakages and damage.						
Seal Test	Air test 0.8MPa, keep 15s, without any visible leakage。						
Seal Face quality	Degree of roughness Ra≤1.6μm.						
Thread	BSPT 1/2”						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L	H	D			
	Φ14	53	44	Φ95			
Handwheel	Not Available						
Appearance、Marking、Package	Appearance: Finish 1/2 ECI PN25 Free from oil, water, packed safely						
Results	Inspecting according to ISO7 <div>Issue date: May 1st 2020</div>						
Order No.	PO NO.: 01500343			Remark	Weight: (kg,) Bronze: Brass: Others: Total:	PC/kg	

Test Report

No.: BR118-DN40

Dept.	Metalwork Workshop			Inspection Date	May 1 st 2020	Brand	ECI
Description	Bronze Ball Valve			Model No.	BR118	Size	11/2”
Qty for Inspection	1124 sets			Qty for Inspection	1124 Sets	Pressure Rating	2.5MPa
Details of Inpection	Standard Requirement				Inspection Status		
					Pass	Failed	Results
Up seal Test	Not Available				1124	0	OK
Body	Hydraulic test 3.75MPa, Keep 15s, without any leakages and damage.						
Seal Test	Air test 0.8MPa, keep 15s, without any visible leakage.						
Seal Face quality	Degree of roughness Ra≤1.6μm.						
Thread	BSPT 1.1/2”						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L	H	D			
	Φ38	92	70	Φ140			
Handwheel	Not Available						
Appearance Marking Package	Appearance: Finish 1.1/2 ECI PN25 Free from oil, water, packed safely						
Results	Inspecting according to ISO7. <div>Issue date: May 1st 2020</div>						
Order No.	PO NO.:01500343			Remark	Weight: (kg.) Bronze: Brass: Others: Total:	PC/kg	

Test Report

No. : BR220-DN20

Dept.	Metalwork Workshop	Inspection Date		May 1 st 2020	Brand	ECI	
Description	Bronze Y type strainer	Model No.		BR220	Size	3/4”	
Qty for Inspection	1925PCS	Qty for Inspection		1925PCS	Pressure Rating	2.0MPa	
Details of Inpection	Standard Requirement			Inspection Status			
				Pass	Failed	Results	
Up seal Test	Not Available			1925	0	OK	
Body	Hydraulic test 3.0MPa, Keep 30s, without any leakages and damage.						
Seal Test	Air test 0.6MPa, keep 30s, without any visible leakage。						
Thread	BSPT 3/4”						
Disc Position	Not Available						
Open & Stop	Flexible,no binding						
Dimension (mm)	Meshes/c m2	L	H (central height)				Dia(handle)
	34	70	51				/
Handwheel	Not Available						
Appearance、Marking、Package	Appearance: Finish 3/4 PN20 ECI → Free from oil, water, packed in pvc bag and cardboard carton						
Results	Inspecting according to ISO7。						
Order No.:	PO NO.:01500343		Remark	Issue date: May 1 st 2020			
				Weight: (kg,)			
				Bronze:			
				Brass:			
				Others:			
				Total:			
				Pc/kg			

Test Report

BR325-DN15

Dept.	Metalwork Workshop	Inspection Date	Oct. 12, 2020	Brand	ECI		
Description	Bronze swing check valve	Model No.	BR325	Size	1/2”		
Qty for Inspection	1399 pcs	Qty for Inspection	1399pcs	Pressure Rating	200WOG /2.5MPa		
Details of Inpection	Standard Requirement		Inspection Status				
			Pass	Un-pass	Results		
Up seal Test	No have		1399	0	OK		
Body	Hydraulic test 3.75MPa, Keep 30s, without any leakages and damage.						
Seal Test	Hydraulic test 2.75MPa, Keep 30s, without any leakages and damage.						
	Air test 0.8MPa, Keep 30s, without any leakages.						
Thread	BSPT 1/2, go/no go gauge						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L				H	Lever
	Φ12.5	58				38	/
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 1/2 → 125S 200WOG ECI Free from oil, water, packed safely						
Results	Inspecting according to ISO7。 <div>Issue date: Oct. 12, 2020</div>						
Order No.			Remark				

Test Report

BR325-DN20

Dept.	Metalwork Workshop			Inspection Date	Oct. 12, 2020	Brand	ECI
Description	Bronze swing check valve			Model No.	BR325	Size	3/4"
Qty for Inspection	1212 pcs			Qty for Inspection	1212pcs	Pressure Rating	200WOG /2.5MPa
Details of Inpection	Standard Requirement				Inspection Status		
					Pass	Un-pass	Results
Up seal Test	No have				1212	0	OK
Body	Hydraulic test 3.75MPa, Keep 30s, without any leakages and damage.						
Seal Test	Hydraulic test 2.75MPa, Keep 30s, without any leakages and damage.						
	Air test 0.8MPa, Keep 30s, without any leakages.						
Thread	BSPT3/4", go/no go gauge						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L	H	Lever			
	Φ19	66	42	/			
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 3/4 →125S 200WOG ECI Free from oil, water, packed safely						
Results	Inspecting according to ISO7. <div>Issue date: Oct. 12, 2020</div>						
Order No.				Remark			

Test Report

BR325-DN25

Dept.	Metalwork Workshop			Inspection Date	Oct. 12, 2020	Brand	ECI
Description	Bronze swing check valve			Model No.	BR325	Size	1”
Qty for Inspection	1266 pcs			Qty for Inspection	1266pcs	Pressure Rating	200WOG /2.5MPa
Details of Inpection	Standard Requirement				Inspection Status		
					Pass	Un-pass	Results
Up seal Test	No have				1266	0	OK
Body	Hydraulic test 3.75MPa, Keep 30s, without any leakages and damage.						
Seal Test	Hydraulic test 2.75MPa, Keep 30s, without any leakages and damage.						
	Air test 0.8MPa, Keep 30s, without any leakages.						
Thread	BSPT 1, go/no go gauge						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L	H	Lever			
	Φ24.5	80	49	/			
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 1 →125S 200WOG ECI Free from oil, water, packed safely						
Results	Inspecting according to ISO7. <div>Issue date: Oct. 12, 2020</div>						
Order No.				Remark			

Test Report

BR325-DN32

Dept.	Metalwork Workshop	Inspection Date	Oct. 12, 2020	Brand	ECI		
Description	Bronze swing check valve	Model No.	BR325	Size	11/4”		
Qty for Inspection	862pcs	Qty for Inspection	862pcs	Pressure Rating	200WOG /2.5MPa		
Details of Inpection	Standard Requirement		Inspection Status				
			Pass	Un-pass	Results		
Up seal Test	No have		862	0	OK		
Body	Hydraulic test 3.75MPa, Keep 30s, without any leakages and damage.						
Seal Test	Hydraulic test 2.75MPa, Keep 30s, without any leakages and damage.						
	Air test 0.8MPa, Keep 30s, without any leakages.						
Thread	BSPT 11/4, go/no go gauge						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L				H	Lever
	Φ30.9	89				56	/
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 11/4→125S 200WOG ECI Free from oil, water, packed safely						
Results	Inspecting according to ISO7。 <div>Issue date: Oct. 12, 2020</div>						
Order No.			Remark				

Test Report

BR325-DN40

Dept.	Metalwork Workshop	Inspection Date		Oct. 12, 2020	Brand	ECI	
Description	Bronze swing check valve	Model No.		BR325	Size	11/2”	
Qty for Inspection	729 pcs	Qty for Inspection		729pcs	Pressure Rating	200WOG /2.5MPa	
Details of Inpection	Standard Requirement			Inspection Status			
				Pass	Un-pass	Results	
Up seal Test	No have			729	0	OK	
Body	Hydraulic test 3.75MPa, Keep 30s, without any leakages and damage.						
Seal Test	Hydraulic test 2.2MPa, Keep 30s, without any leakages and damage.						
	Air test 0.6MPa, Keep 30s, without any leakages.						
Thread	BSPT11/2, go/no go gauge						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L	H				Lever
	Φ39	95	65				/
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 11/2 → 125S 200WOG ECI Free from oil, water, packed safely						
Results	Inspecting according to ISO7。 Issue date: Oct. 12, 2020						
Order No.			Remark				

Test Report

BR325-DN50

Dept.	Metalwork Workshop	Inspection Date	Oct. 12, 2020	Brand	ECI		
Description	Bronze swing check valve	Model No.	BR325	Size	2"		
Qty for Inspection	825 pcs	Qty for Inspection	825pcs	Pressure Rating	200WOG /2.5MPa		
Details of Inpection	Standard Requirement		Inspection Status				
			Pass	Un-pass	Results		
Up seal Test	No have		825	0	OK		
Body	Hydraulic test 3.75MPa, Keep 30s, without any leakages and damage.						
Seal Test	Hydraulic test 2.75MPa, Keep 30s, without any leakages and damage.						
	Air test 0.8MPa, Keep 30s, without any leakages.						
Thread	BSPT 2, go/no go gauge						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L				H	Lever
	Φ49.6	108				76	/
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 2 ➡ 125S 200WOG ECI Free from oil, water, packed safely						
Results	Inspecting according to ISO7. <div>Issue date: Oct. 12, 2020</div>						
Order No.			Remark				

Test Report

No.: BR520-DN20

Dept.	Metalwork Workshop			Inspection Date	May 1 st 2020	Brand	ECI
Description	Bronze NRS Gate Valve			Model No.	BR520	Size	3/4”
Qty for Inspection	2002 PCS			Qty for Inspection	2002 PCS	Pressure Rating	300WOG /2.0MPa
Details of Inpection	Standard Requirement				Inspection Status		
					Pass	Failed	Results
Up seal Test	Hydraulic test 2.2MPa, keep 15s, without any visible leakage。				2002	0	OK
Body	Hydraulic test 3.0MPa, Keep 15s, without any leakages and damage.						
Seal Test	Air test 0.6MPa, keep 15s, without any visible leakage。						
Seal Face quality	Degree of roughness Ra≤1.6μm.						
Thread	BSPT3/4”						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L	H	D			
	Φ19.1	54	84	Φ69			
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 3/4 PN20 ECI Free from oil, water, packed safely						
Results	Inspecting according to GBT13927-2008。 Issue date: May 1 st 2020						
Order No.	PO NO.:01500343			Remark	Factory allowable leaking rate: according GBT13927-2008:Rate D.		

Test Report

No.: BR520- DN80

Dept.	Metalwork Workshop	Inspection Date	May 1 st 2020	Brand	ECI		
Description	Bronze NRS Gate Valve	Model No.	BR520	Size	3”		
Qty for Inspection	102 PCS	Qty for Inspection	102 PCS	Pressure Rating	300WOG /2.0MPa		
Details of Inpection	Standard Requirement		Inspection Status				
			Pass	Failed	Results		
Up seal Test	Hydraulic test 2.2MPa, keep 15s, without any visible leakage。		102	0	OK		
Body	Hydraulic test 3.0MPa, Keep 15s, without any leakages and damage.						
Seal Test	Air test 0.6MPa, keep 15s, without any visible leakage。						
Seal Face quality	Degree of roughness Ra≤1.6μm.						
Thread	NPT 3”						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L				H	D
	Φ76	105				215	Φ110
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 3 ECI PN20 Free from oil, water, packed safely						
Results	Inspecting according to GBT13927-2008。 Issue date: May 1 st 2020						
Order No.	Po No.: 01500343	Remark	Factory allowable leaking rate: according GBT13927-2008:Rate D.				

Test Report

No. : BR520-DN100

Dept.	Metalwork Workshop	Inspection Date	May 1 st 2020	Brand	ECI		
Description	Bronze NRS Gate Valve	Model No.	152B	Size	4”		
Qty for Inspection	83 PCS	Qty for Inspection	83 PCS	Pressure Rating	2.0MPa		
Details of Inpection	Standard Requirement		Inspection Status				
			Pass	Failed	Results		
Up seal Test	Hydraulic test 2.2MPa, keep 15s, without any visible leakage。		32	0	OK		
Body	Hydraulic test 3.0MPa, Keep 15s, without any leakages and damage.						
Seal Test	Air test 0.6MPa, keep 15s, without any visible leakage。						
Seal Face quality	Degree of roughness Ra≤1.6μm.						
Thread	NPT 2”						
Disc Position	Check that disc is clear of the waterway						
Open & Stop	Flexible,no binding						
Dimension (mm)	d	L				H	D
	Φ100	124				258	Φ130
Handwheel	Handwheel and stem with on looseness, no obvious skew						
Appearance、Marking、Package	Appearance: Finish 4 PN20 ECI Free from oil, water, packed safely						
Results	Inspecting according to GBT13927-2008。 <div>Issue date: May 1st 2020</div>						
Order No.	PO NO.:01500343	Remark	Factory allowable leaking rate: according GBT13927-2008:Rate D.				

Test Report

No.: BR825-DN20

Dept.	Metalwork Workshop			Inspection Date	May 1 st 2020	Brand	ECI			
Description	Bronze DRV			Model No.	BR825	Size	3/4”			
Qty for Inspection	930 sets			Qty for Inspection	930 Sets	Pressure Rating	2.5MPa			
Details of Inpection	Standard Requirement				Inspection Status					
					Pass	Failed	Results			
Up seal Test	Air test 0.8MPa, keep 15 s, without any visible leakage。				930	0	OK			
Body	Hydraulic test3.75MPa, Keep 15s, without any leakages and damage.									
Seal Test	Air test 0.8MPa, keep 15s, without any visible leakage。									
Seal Face quality	Degree of roughness Ra≤1.6μm.									
Thread	BSPT									
Disc Position	Check that disc is clear of the waterway									
Open & Stop	Flexible,no binding									
Dimension (mm)		L	H (central height)	Dia(handle)						
		96	111	90						
Handwheel	Handwheel and stem with on looseness, no obvious skew									
Appearance、Marking、Package	Appearance: Finish 3/4” ECI PN25 —————→ Free from oil, water, packed in pvc bag and cardboard carton									
Results	Inspecting according to BS7350。 <div>Issue date: May 1st 2020</div>									
Order No.	PO NO.:01500343			Remark				Weight: (kg.) Bronze: Brass: Others: Total:	Pc/kg	

CONFORMITY/TEST CERTIFICATE 3.1

ISSUE: EUROPEAN CASTING INDUSTRY

ISSUE NO: PO # 01500358

ISSUE DATE: 01/03/2020

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DESCRIPTION: CAST IRON VALVES

ITEM No.	DESCRIPTION	QTY (PCS)	CLASS (PN)	ECI ARTICLE	END	MATERIAL				HYDROSTATIC (MPA)			AIR TEST		RESULT				
						BODY/ BONNET	DISC	STEM	SEAT	BODY	SEAT	BACK	SEAT						
1	G101 2"	100	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
2	G101 21/2"	120	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
3	G101 3"	300	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
4	G101 4"	320	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
5	G101/G103 6"	130	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
6	G101	150	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
7	G101/G103 10"	30	125S	/	Flange	DI	SS316	SS410	EPDM	2.4	1.76	/	/	ok					
8	G311 4"	75	125S	/	Flange	CI	SS316	/	EPDM	2.4	1.76	/	/	ok					
9	G311 6"	50	125S	/	Flange	CI	SS316	/	EPDM	2.4	1.76	/	/	ok					
10	G311 8"	50	125S	/	Flange	CI	SS316	/	EPDM	2.4	1.76	/	/	ok					
ITEM No.	DESCRIPTION	NAME OF PART	HEAT No.	Material	Chemical Analysis (%)										MPa		E (%)	Ψ (%)	HB
					C%	Si%	Mn%	P%	S%	Re%	Cr%	Ni%	Mo %	Mg%	Tensile Strength	Yield Point			
1	G101 2"	BODY	D041	GGG50	3.7	2.66	0.32	0.052	0.025	/	/	/	/	0.08	468	353	14	/	/
		BODY	D481	GGG50	3.68	2.77	0.22	0.41	0.019	/	/	/	/	0.03	484	361	13.5	/	/
		DISC	1709	SS316	0.073	1.3	1.3	0.03	0.032	/	19.37	9.940	2.55	/	513	239	36	/	/
		DISC	1807	SS316	0.059	1.12	1.1	0.025	0.03	/	18.70	10.01	2.23	/	514	242	31	/	/
		DISC	1703	SS316	0.07	1.25	1.32	0.031	0.032	/	19.54	9.97	2.28	/	520	241	38	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
2	G101 21/2"	BODY	D71L	GGG50	3.71	2.79	0.38	0.056	0.024	/	/	/	/	0.08	473	345	14	/	/
		BODY	D041	GGG50	3.7	2.66	0.32	0.052	0.025	/	/	/	/	0.08	468	353	14	/	/
		BODY	D481	GGG50	3.68	2.77	0.22	0.41	0.019	/	/	/	/	0.03	484	361	13.5	/	/
		DISC	1703	SS316	0.07	1.25	1.32	0.031	0.032	/	19.54	9.97	2.28	/	520	241	38	/	/
		DISC	1709	SS316	0.073	1.3	1.3	0.03	0.032	/	19.37	9.940	2.55	/	513	239	36	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
		BODY	D791	GGG50	3.78	2.73	0.46	0.052	0.023	/	/	/	/	0.04	470	352	13	/	/
		BODY	D041	GGG50	3.7	2.66	0.32	0.052	0.025	/	/	/	/	0.08	468	353	14	/	/

CONFORMITY/TEST CERTIFICATE 3.1

ISSUE: EUROPEAN CASTING INDUSTRY

ISSUE NO: PO # 01500358

ISSUE DATE: 01/03/2020

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www.ecivalve.it

DESCRIPTION: CAST IRON VALVES

3	G101 3"	BODY	D481	GGG50	3.68	2.77	0.22	0.41	0.019	/	/	/	/	0.03	484	361	13.5	/	/
		DISC	1703	SS316	0.07	1.25	1.32	0.031	0.032	/	19.54	9.97	2.28	/	520	241	38	/	/
		DISC	1901	SS316	0.06	1.29	1.22	0.03	0.034	/	19.47	9.86	2.45	/	523	236	38	/	/
		DISC	1705	SS316	0.05 5	1.15	1.07	0.027	0.029	/	18.53	10.12	2.27	/	508	233	35	/	/
		DISC	1807	SS316	0.05 9	1.12	1.1	0.025	0.03	/	18.70	10.01	2.23	/	514	242	31	/	/
		DISC	1709	SS316	0.07 3	1.3	1.3	0.03	0.032	/	19.37	9.940	2.55	/	513	239	36	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
4	G101 4"	BODY	D041	GGG50	3.7	2.66	0.32	0.052	0.025	/	/	/	/	0.08	468	353	14	/	/
		BODY	D481	GGG50	3.68	2.77	0.22	0.41	0.019	/	/	/	/	0.03	484	361	13.5	/	/
		DISC	1601	SS316	0.06 4	1.32	1.33	0.03	0.028	/	19.20	9.380	2.52	/	497	228	37	/	/
		DISC	1705	SS316	0.05 5	1.15	1.07	0.027	0.029	/	18.53	10.12	2.27	/	508	233	35	/	/
		DISC	1807	SS316	0.05 9	1.12	1.1	0.025	0.03	/	18.70	10.01	2.23	/	514	242	31	/	/
		DISC	1709	SS316	0.07 3	1.3	1.3	0.03	0.032	/	19.37	9.940	2.55	/	513	239	36	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
5	G101/G103 6"	BODY	D791	GGG50	3.78	2.73	0.46	0.052	0.023	/	/	/	/	0.04	470	352	13	/	/
		BODY	D047	GGG50	3.65	2.63	0.34	0.06	0.022	/	/	/	/	0.08	474	338	16	/	/
		BODY	D481	GGG50	3.68	2.77	0.22	0.41	0.019	/	/	/	/	0.03	484	361	13.5	/	/
		DISC	1901	SS316	0.06	1.29	1.22	0.03	0.034	/	19.47	9.86	2.45	/	523	236	38	/	/
		DISC	1703	SS316	0.07	1.25	1.32	0.031	0.032	/	19.54	9.97	2.28	/	520	241	38	/	/
		DISC	1705	SS316	0.05 5	1.15	1.07	0.027	0.029	/	18.53	10.12	2.27	/	508	233	35	/	/
		DISC	1807	SS316	0.05 9	1.12	1.1	0.025	0.03	/	18.70	10.01	2.23	/	514	242	31	/	/
		DISC	1907	SS316	0.06 6	1.28	1.22	0.028	0.033	/	19.20	11.02	2.36	/	499	234	39	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
6	G101 8"	BODY	D71S	GGG50	3.65	2.82	0.33	0.061	0.028	/	/	/	/	0.07	480	337	13	/	/
		BODY	D653	GGG50	3.73	2.69	0.034	0.055	0.019	/	/	/	/	0.05	462	315	17	/	/
		BODY	D047	GGG50	3.65	2.63	0.34	0.06	0.022	/	/	/	/	0.08	474	338	16	/	/
		DISC	1901	SS316	0.06	1.29	1.22	0.03	0.034	/	19.47	9.86	2.45	/	523	236	38	/	/
		DISC	1709	SS316	0.07 3	1.3	1.3	0.03	0.032	/	19.37	9.940	2.55	/	513	239	36	/	/
		DISC	1907	SS316	0.06 6	1.28	1.22	0.028	0.033	/	19.20	11.02	2.36	/	499	234	39	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
		BODY	D79S	GGG50	3.65	2.56	0.47	0.064	0.02	/	/	/	/	0.05	459	339	15	/	/
		BODY	D71S	GGG50	3.65	2.82	0.33	0.061	0.028	/	/	/	/	0.07	480	337	13	/	/



CONFORMITY/TEST CERTIFICATE 3.1

ISSUE: EUROPEAN CASTING INDUSTRY

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DESCRIPTION: CAST IRON VALVES

7	G101/G103 10"	BODY	D653	GGG50	3.73	2.69	0.034	0.055	0.019	/	/	/	/	0.05	462	315	17	/	/
		BODY	D481	GGG50	3.68	2.77	0.22	0.41	0.019	/	/	/	/	0.03	484	361	13.5	/	/
		DISC	1703	SS316	0.07	1.25	1.32	0.031	0.032	/	19.54	9.97	2.28	/	520	241	38	/	/
		DISC	1705	SS316	0.05 5	1.15	1.07	0.027	0.029	/	18.53	10.12	2.27	/	508	233	35	/	/
		DISC	1709	SS316	0.07 3	1.3	1.3	0.03	0.032	/	19.37	9.940	2.55	/	513	239	36	/	/
		STEM	/	SS410	0.13	0.78	0.76	0.029	0.023	/	12.22	0.040	/	/	570	382	28	/	/
8	G311 4"	BODY	D037	GG25	3.2	1.81	0.93	0.13	0.072	/	/	/	/	/	257	/	/	/	/
		BODY	D8XC	GG25	3.41	1.87	0.74	0.11	0.086	/	/	/	/	/	217	/	/	/	/
		DISC	1809	SS316	0.07 1	1.34	1.2	0.031	0.025	/	20.30	10.54	2.60	/	502	233	38	/	/
		DISC	1705	SS316	0.06 9	1.41	1.38	0.035	0.036	/	18.91	1.033	2.47	/	508	230	37	/	/
9	G311 6"	BODY	D037	GG25	3.2	1.81	0.93	0.13	0.072	/	/	/	/	/	257	/	/	/	/
		DISC	1809	SS316	0.07 1	1.34	1.2	0.031	0.025	/	20.30	10.54	2.60	/	502	233	38	/	/
10	G311 8"	BODY	D039	GG25	3.26	1.75	0.93	0.128	0.086	/	/	/	/	/	261	/	/	/	/
		DISC	1809	SS316	0.07 1	1.34	1.2	0.031	0.025	/	20.30	10.54	2.60	/	502	233	38	/	/

We hereby certify that the material above has been tested and complied with the terms of the order contract.



CONFORMITY/TEST CERTIFICATE 3.1

ISSUE: EUROPEAN CASTING INDUSTRY

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DESCRIPTION: CAST IRON VALVES

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ITEM No.	DESCRIPTION	QTY (PCS)	CLASS (PN)	ECI ARTICLE		END	MATERIAL				HYDROSTATIC (MPA)			AIR TEST		RESULT				
							BODY/ BONNET	DISC	STEM	SEAT	BODY	SEAT	BACK	SEAT						
1	G501 3"	50	125S	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.41	1.38	/	/	ok					
2	G501 4"	80	125S	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.41	1.38	/	/	ok					
3	G505 2"	30	125S	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.41	1.38	/	/	ok					
4	G505 2 1/2"	25	125S	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.41	1.38	/	/	ok					
5	G505 4"	32	125S	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.41	1.38	/	/	ok					
6	G503 2 1/2"	75	16	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.4	1.76	/	/	ok					
7	G503 3"	50	16	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.4	1.76	/	/	ok					
8	G503 4"	64	16	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.4	1.76	/	/	ok					
9	G503 8"	27	16	/		Flange	GG25	GG25	Hpb59-1	ZCuSn5Pb5Zn5	2.4	1.76	/	/	ok					
10	G201 8"	25	125S	/		Flange	GG25	/	/	/	2.41	/	/	/	ok					
11	G203 8"	25	16	/		Flange	GG25	/	/	/	2.41	/	/	/	ok					
12	G301 4"	64	125S	/		Flange	GG25	GG25	/	ZCuSn5Pb5Zn5	2.07	1.38	/	/	ok					
13	G301 8"	30	125S	/		Flange	GG25	GG25	/	ZCuSn5Pb5Zn5	2.07	1.38	/	/	ok					
14	G303 2 1/2"	50	16	/		Flange	GG25	GG25	/	ZCuSn5Pb5Zn5	2.4	1.6	/	/	ok					
ITEM No.	DESCRIPTION	NAME OF PART	HEAT No.	Material		Chemical Analysis (%)										MPa		E (%)	Ψ (%)	HB
						C%	Si%	Mn%	P%	S%	Re%	Cr%	Ni%	Mo %	Mg%	Tensile Strengt h	Yield Point			
1	G501 3"	BODY	C037	GG25		3.31	1.96	0.98	0.052	0.048	/	/	/	/	/	291	/	/	/	/
		BONNET	C914	GG25		3.20	1.79	0.81	0.036	0.065	/	/	/	/	/	290	/	/	/	/
		DISC	C9ZD	GG25		3.38	1.86	0.89	0.060	0.039	/	/	/	/	/	298	/	/	/	/
2	G501 4"	BODY	C02W	GG25		3.20	1.89	0.80	0.046	0.056	/	/	/	/	/	301	/	/	/	/
		BONNET	C97Y	GG25		3.28	1.86	0.82	0.054	0.054	/	/	/	/	/	288	/	/	/	/
		DISC	C01K	GG25		3.36	1.99	0.97	0.057	0.047	/	/	/	/	/	314	/	/	/	/
3	G505 2"	BODY	C03D	GG25		3.29	2.00	0.91	0.042	0.061	/	/	/	/	/	315	/	/	/	/
		BONNET	C971	GG25		3.32	1.95	0.86	0.057	0.042	/	/	/	/	/	266	/	/	/	/
		DISC	C94A	GG25		3.26	1.79	0.84	0.042	0.056	/	/	/	/	/	257	/	/	/	/
		BODY	C03D	GG25		3.29	2.00	0.91	0.042	0.061	/	/	/	/	/	315	/	/	/	/

CONFORMITY/TEST CERTIFICATE 3.1

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DESCRIPTION: CAST IRON VALVES

4	G505 21/2"	BONNET	C98E	GG25		3.27	1.78	0.84	0.049	0.038	/	/	/	/	/	285	/	/	/	/
		DISC	C9ZV	GG25		3.13	1.89	0.89	0.049	0.036	/	/	/	/	/	316	/	/	/	/
5	G505 4"	BODY	C02W	GG25		3.20	1.89	0.80	0.046	0.056	/	/	/	/	/	301	/	/	/	/
		BONNET	C9Z5	GG25		3.21	1.92	0.91	0.047	0.035	/	/	/	/	/	329	/	/	/	/
		DISC	C99L	GG25		3.21	1.86	0.87	0.044	0.041	/	/	/	/	/	293	/	/	/	/
6	G503 21/2"	BODY	C03D	GG25		3.29	2.00	0.91	0.042	0.061	/	/	/	/	/	315	/	/	/	/
		BONNET	C02D	GG25		3.21	1.92	0.81	0.053	0.049	/	/	/	/	/	306	/	/	/	/
		DISC	C992	GG25		3.16	1.85	0.79	0.045	0.040	/	/	/	/	/	306	/	/	/	/
7	G503 3"	BODY	C02W	GG25		3.20	1.89	0.80	0.046	0.056	/	/	/	/	/	301	/	/	/	/
		BONNET	C02X	GG25		3.33	1.86	0.76	0.049	0.046	/	/	/	/	/	289	/	/	/	/
		DISC	C9ZD	GG25		3.38	1.86	0.89	0.060	0.039	/	/	/	/	/	298	/	/	/	/
8	G503 4"	BODY	C037	GG25		3.31	1.96	0.98	0.052	0.048	/	/	/	/	/	291	/	/	/	/
		BONNET	C9ZA	GG25		3.18	1.97	0.87	0.048	0.037	/	/	/	/	/	312	/	/	/	/
		DISC	C03A	GG25		3.27	1.96	1.01	0.052	0.048	/	/	/	/	/	334	/	/	/	/
9	G503 8"	BODY	C02T	GG25		3.38	2.04	0.83	0.050	0.071	/	/	/	/	/	303	/	/	/	/
		BONNET	C9Y7	GG25		3.37	1.97	0.90	0.059	0.041	/	/	/	/	/	322	/	/	/	/
		DISC	C72C	GG25		3.23	1.87	0.89	0.043	0.062	/	/	/	/	/	302	/	/	/	/
10	G201 8"	BODY	C03J	GG25		3.14	1.93	0.83	0.049	0.037	/	/	/	/	/	309	/	/	/	/
		BONNET	C992	GG25		3.16	1.85	0.79	0.045	0.040	/	/	/	/	/	306	/	/	/	/
11	G203 8"	BODY	C03C	GG25		3.39	1.92	0.94	0.045	0.074	/	/	/	/	/	327	/	/	/	/
		BONNET	C992	GG25		3.16	1.85	0.79	0.045	0.040	/	/	/	/	/	306	/	/	/	/
12	G301 4"	BODY	C037	GG25		3.31	1.96	0.98	0.052	0.048	/	/	/	/	/	291	/	/	/	/
		BONNET	C96V	GG25		3.21	1.80	0.82	0.052	0.042	/	/	/	/	/	297	/	/	/	/
		DISC	C037	GG25		3.31	1.96	0.98	0.052	0.048	/	/	/	/	/	291	/	/	/	/
13	G301 8"	BODY	C03G	GG25		3.28	1.91	0.94	0.045	0.073	/	/	/	/	/	345	/	/	/	/
		BONNET	C03J	GG25		3.14	1.93	0.83	0.049	0.037	/	/	/	/	/	309	/	/	/	/
		BONNET	C9YP	GG25		3.04	1.89	0.83	0.054	0.038	/	/	/	/	/	315	/	/	/	/
		DISC	C02L	GG25		3.29	1.92	0.80	0.051	0.046	/	/	/	/	/	331	/	/	/	/
14	G303 21/2"	BODY	C03B	GG25		3.25	1.93	0.97	0.043	0.072	/	/	/	/	/	314	/	/	/	/
		BONNET	C03A	GG25		3.27	1.96	1.01	0.052	0.048	/	/	/	/	/	334	/	/	/	/
		DISC	C02K	GG25		3.19	1.94	0.80	0.051	0.038	/	/	/	/	/	308	/	/	/	/

We hereby certify that the material above has been tested and complied with the terms of the order contract.



Data / Date: 30/05/2023

EUROPEAN CASTING INDUSTRY
SRL
Via Lazzaretto, 11
20124 Milano, Italia

Oggetto: CERTIFICATE OF CONFORMITY

Subject: (In compliance with UNI CEI EN 45014 e UNI EN 10204 2.2)

With this document the company ECI SRL. declares that the product at which this certificate referred is in compliance to the technical specifications of our catalogue, to the prescriptions declared in our technical drawings.

ARTICLE: BS202
DESCRIPTION: Y strainer PN16

CHEMICAL ANALYSIS (%)												
Component	Standard EN12165 specification limits	Cu	Pb	Sn	Fe	Ni	Al	Si	P	Sb	As	Zn
Body	MIN	57,0	1,6	0,0	0,0	0,0	0,00	0,00	/	/	/	Remain
	MAX	59,0	2,2	0,3	0,3	0,1	0,05	0,03				
MECHANICAL TEST												
Component	Batch N°	Date	Tensile Strenght [MPa]		Yeld Strenght [Mpa]		Elongation [%]		Hardness [HB]			
Body	/	06.03.2023	/		/		/		/			
FUNCTIONAL TEST												
Method						Frequency				Result		
6 bar pneumatic test						100 %				OK		
Handling inspection						100 %				OK		
Visual inspection						100 %				OK		

MILANO, 30/05/2023



**EUROPEAN
CASTING
INDUSTRY**
Via Lazzaretto, 11 - 20124 Milano MI, Italy

Data / Date: 30/05/2023

EUROPEAN CASTING INDUSTRY
SRL
Via Lazzaretto, 11
20124 Milano, Italia

Oggetto: CERTIFICATE OF CONFORMITY**Subject: (In compliance with UNI CEI EN 45014 e UNI EN 10204 2.2)**

With this document the company ECI SRL. declares that the product at which this certificate referred is in compliance to the technical specifications of our catalogue, to the prescriptions declared in our technical drawings

ARTICLE: BS302
DESCRIPTION: BRASS SWING CHECK VALVE METAL SEATED PN16

CHEMICAL ANALYSIS (%)													
Component	Standard EN12165 specification limits		Cu	Pb	Sn	Fe	Ni	Al	Si	P	Sb	As	Zn
Body	MIN		57,0	1,6	0,0	0,0	0,0	0,00	0,00	/	/	/	Remain
	MAX		59,0	2,2	0,3	0,3	0,1	0,05	0,03				
MECHANICAL TEST													
Component	Batch N°	Date	Tensile Strenght [MPa]			Yeld Strenght [Mpa]		Elongation [%]		Hardness [HB]			
Body	/	06.03.2023	/			/		/		/			
FUNCTIONAL TEST													
Method							Frequency			Result			
6 bar pneumatic test							100 %			OK			
Handling inspection							100 %			OK			
Visual inspection							100 %			OK			

Milano, 30/05/2023

 **EUROPEAN
CASTING
INDUSTRY**
Via Lazzaretto, 11 - 20124 Milano MI, Italy

Data / Date: 30/05/2023

EUROPEAN CASTING INDUSTRY
SRL
Via Lazzaretto, 11
20124 Milano, Italia

Oggetto: CERTIFICATE OF CONFORMITY**Subject: (In compliance with UNI CEI EN 45014 e UNI EN 10204 2.2)**

With this document the company ECI SRL. declares that the product at which this certificate referred is in compliance to the technical specifications of our catalogue, to the prescriptions declared in our technical drawings

ARTICLE: BS501
DESCRIPTION: Brass Gate Valve PN 16

CHEMICAL ANALYSIS (%)												
Component	Standard EN12165 specification limits	Cu	Pb	Sn	Fe	Ni	Al	Si	P	Sb	As	Zn
Body	MIN	57,0	1,6	0,0	0,0	0,0	0,00	0,00	/	/	/	Remain
	MAX	59,0	2,2	0,3	0,3	0,1	0,05	0,03				
MECHANICAL TEST												
Component	Batch N°	Date	Tensile Strenght [MPa]		Yeld Strenght [Mpa]		Elongation [%]		Hardness [HB]			
Body	/	/	/		/		/		/			
FUNCTIONAL TEST												
Method						Frequency				Result		
6 bar pneumatic test						100 %				OK		
Handling inspection						100 %				OK		
Visual inspection						100 %				OK		

Milano, 30/05/2023

 **EUROPEAN
CASTING
INDUSTRY**
Via Lazzaretto, 11 - 20124 Milano MI, Italy