



## MAESTRINI

Reference No. TAC 2023/052 SQ366920 Maestrini Srl

Component and assembly tests on Through-hull fittings, Seacocks and Hosetails in Bronze (EN ISO 9093:2021, sections 4.3 and Annex B, 4.4 and Annex A, 4.5.3, 4.5.4)

### A) Articles to be considered for type approval according to EN ISO 9093:2021

A.1) Bronze Through-hull outlet (Art. 2051), rated Dn 1/2" through Dn 5": 2051D (Dn 1/2"), 2051E (3/4"), 2051F (1"), 2051G (1-1/4"), 2051H (1-1/2"), 2051I (2"), 2051L (2-1/2"), 2051M (3"), 2051P (4"), 2051Q (5").

The type approval of this through-hull fitting is extended to the following through-hull fittings:

- Art. 2057 Bronze Through-hull outlet with inclined head: 2057D (Dn 1/2"), 2057E (3/4"), 2057F (1"), 2057G (1-1/4"), 2057H (1-1/2"), 2057I (2"), 2057L (2-1/2"), 2057M (3"), 2057P (4"), 2057Q (5");
- Art. 2043 Bronze Through-hull outlet with flat head: 2043D (Dn 1/2"), 2043E (3/4"), 2043F (1"), 2043G (1-1/4"), 2043H (1-1/2"), 2043I (2");
- Art. 2052 Bronze Through-hull outlet with reverse inclined head: 2052D (Dn 1/2"), 2052E (3/4"), 2052F (1"), 2052G (1-1/4"), 2052H (1-1/2"), 2052I (2"), 2052L (2-1/2"), 2052M (3"), 2052P (4"), 2052Q (5");
- Art. 2054 Bronze Through-hull outlet with hose tail: 2054D (Dn 1/2"), 2054E (3/4"), 2054F (1"), 2054G (1-1/4"), 2054H (1-1/2"), 2054I (2"), 2054L (2-1/2"), 2054M (3"), 2054P (4"), 2054Q (5");
- Art. 2058 Bronze Long Through-hull outlet: 2058E (Dn 3/4"), 2058F (1"), 2058G (1-1/4"), 2058H (1-1/2");
- Art. 2658 Bronze XL Through-hull outlet: 2658F (Dn 1"), 2658G (1-1/4"), 2658H (1-1/2"), 2658I (2"), 2658L (2-1/2"), 2658M (3");
- Art. 2657 Bronze XL Through-hull outlet with inclined head: 2657F (Dn 1"), 2657G (1-1/4"), 2657H (1-1/2"), 2657I (2"), 2657L (2-1/2"), 2657M (3").

Motives for inclusion: the standard-length through-hull fittings (2051, 2057, 2043, 2052, 2054) are manufactured starting from the same semi-finished part; consequently, as per the enclosed Annex 1, the five models have the same diameter of the head, the same length and thickness of the stem and (save for minor differences due to the different machining cycles) the same overall length of the fitting. The longer fittings are used for installation on thicker hulls where a longer stem is required to pass through the hull. The head of the 2058 fitting has the same shape and diameter as the 2051, while the XL models 2657 and 2658 are made from the same casting and have a head diameter slightly larger than the other fittings.



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A.2) Bronze "high flow" intake strainer with wide slots (Art. 2049), rated Dn 1/2" through Dn 5": 2049D (Dn 1/2"), 2049E (3/4"), 2049F (1"), 2049G (1-1/4"), 2049H (1-1/2"), 2049I (2"), 2049L (2-1/2"), 2049M (3"), 2049P (4"), 2049Q (5").

The type approval of this intake strainer is extended to the following models:

- Art. 2050 Bronze intake strainer: 2050D (Dn 1/2"), 2050E (3/4"), 2050F (1"), 2050G (1-1/4"), 2050H (1-1/2"), 2050I (2"), 2050L (2-1/2"), 2050M (3"), 2050P (4");
- Art. 2064: Bronze round full slot intake strainer with fixing holes: 2064F (Dn 1").

Motives for inclusion: for each value of Dn the stems of the 2050 and 2064 fittings are as long as those of the 2049 or shorter, as per the enclosed Annex 2.

A.3) Full bronze F.F. drainable ball valve "Vittoria" with polymer ball (Art. 28910), rated Dn 1/2" through Dn 4": 28910D (Dn 1/2"), 28910E (3/4"), 28910F (1"), 28910G (1-1/4"), 28910H (1-1/2"), 28910I (2"), 28910L (2-1/2"), 28910M (3"), 28910P (4"). The type approval of this valve is extended to the following valve models:

- Art. 28210, same as 28910 with ball in bronze instead of acetal polymer: 28210D (Dn 1/2"), 28210E (3/4"), 28210F (1"), 28210G (1-1/4"), 28210H (1-1/2"), 28210I (2"), 28210L (2-1/2"), 28210M (3"), 28210P (4");
- Art. 28900 Full bronze F.F. ball valve "Vittoria" with polymer ball (same as 28910 without draining ports): 28900D (Dn 1/2"), 28900E (3/4"), 28900F (1"), 28900G (1-1/4"), 28900H (1-1/2"), 28900I (2"), 28900L (2-1/2"), 28900M (3"), 28900P (4");
- Art. 28200 same as 28900 with ball in bronze instead of acetal polymer: 28200D (Dn 1/2"), 28200E (3/4"), 28200F (1"), 28200G (1-1/4"), 28200H (1-1/2"), 28200I (2"), 28200L (2-1/2"), 28200M (3"), 28200P (4");
- Art. 28920 Full bronze F.F. ball valve "Vittoria" with flanged body and polymer ball (same as 28910 with fixation flange integral to the body): 28920D (Dn 1/2"), 28920E (3/4"), 28920F (1"), 28920G (1-1/4"), 28920H (1-1/2"), 28920I (2");
- Art. 28220 same as 28920 with ball in bronze instead of acetal polymer: 28220D (Dn 1/2"), 28220E (3/4"), 28220F (1"), 28220G (1-1/4"), 28220H (1-1/2"), 28220I (2").

Motives for inclusion: while for each value of Dn the three models of valve share the same dimensional proportions, as per the dimensional tables shown on the enclosed Annex 3, the models 28900 (identical to 28910 but without draining ports) and 28920 (with a flange integral to the valve body for a firmer installation on the hull) can be considered structurally stronger than 28910; for each valve design the model with the bronze ball can be considered stronger than the identical valve with the acetal polymer ball.

A.4) "Roma" Bronze heavy duty male threaded hosetail (Art. 2156) rated Dn 1/2" through Dn 5": 2156D\*xxx (Dn1/2"), 2156E\*xxx (3/4"), 2156F\*xxx (1"), 2156G\*xxx (1-1/4"), 2156H\*xxx (1-1/2"), 2156I\*xxx (2"), 2156L\*xxx (2-1/2"), 2156M\*xxx (3"), 2156P\*xxx (4").



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2156Q\*xxx, xxx being the hose size (19 mm through 127 mm). The complete list of hosetails is shown on the enclosed Annex 4.

### B) Choice of the representative models and sizes.

The following representative models and sizes were agreed for the testing:

- Art. 2051D (1/2") and 2051G (1-1/4");
- Art. 2049D (1/2") and 2049G (1-1/4");
- Art. 28910D (1/2") and 28910G (1-1/4").
- Art. 2156D\*19 (1/2" x 19 mm) and 2156G\*30 (1-1/4" x 30 mm)

### C) Component and assembly tests as per EN ISO 9093:2021 section 4.3 and Annex B, section 4.4 and Annex A, section 4.5.3, section 4.5.4.

#### C-1) Component test as per EN ISO 9093:2021 section 4.3 and Annex B

a) Samples of the representative models 2051D, 2049D, 28910D, 2156D\*19, 2051G, 2049G, 28910G and 2156G\*30 completed an accelerated test involving cyclic exposure to salt mist, wet and dry conditions as per ISO 14993:2018, consisting of 30 consecutive cycles, each of eight hours, for a total exposure of 240 hours. The test was executed by EN ISO/IEC 17025:2018-accredited PHOENIX TESTLAB GmbH, 32825 Blomberg (FRG), accreditation certificate D-PL-17186-01-03 (Ref. Test Lab Report No. U231213E1, date of issue 28<sup>th</sup> August 2023).

b) the exposed samples completed the strength test as per EN ISO 9093:2021, Annex A.2. The components were individually fitted to a rigid baseplate and subjected to the application of the force required according to the nominal size of the component under test:

- Art. 2051D tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2049D tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 28910D tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2156D\*19 tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.



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- Art. 2051G tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2049G tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 28910G tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2156G\*30 tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.

C-2) Component test as per EN ISO 9093:2021, Section 4.4 and Annex A.2. The components were individually fitted to a rigid baseplate and subjected to the application of the force required according to the nominal size of the component under test:

- Art. 2051D tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2049D tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 28910D tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2156D\*19 tested with an applied force of 1500N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2051G tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2049G tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.



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- Art. 28910G tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.
- Art. 2156G\*30 tested with an applied force of 2224N; after this strength test the component showed no visible damage or deformation and no leakage when subjected to an internal pressure of 1 bar, and performed as intended.

C-3) Assembly test as per EN ISO 9093:2021, Section 4.4 and Annex A.3. For each representative nominal size, an assembly consisting of a through-hull outlet 2051, a valve 28910 and a hosetail 2156 was installed on a rigid vertical plate, with the stem of the through-hull outlet adapted in order to simulate an actual installation through the hull and in compliance with the dimensional requirements set in EN ISO 9093:2021 clause 5.3.1. The assemblies were then tested for 30 seconds perpendicular to the inboard end of the assembly applying the required force according to the nominal size:

- 1500N applied to the assembly of 2051D + 28910D + 2156D\*19; the assembly showed no leakage to the outside of the assembly when subjected to an internal water pressure of 1 bar and the seacock remained operable;
- 2224N applied to the assembly of 2051G + 28910G + 2156G\*30; the assembly showed no leakage to the outside of the assembly when subjected to an internal water pressure of 1 bar and the seacock remained operable;

The assemblies were then disassembled and the components assessed:

- The through-hull outlet 2051D did not show any deformation or sign of damage effecting its function; the seacock 28910D did not show sign of damage and remained operable; the hosetail 2156D\*19 did not show any deformation or sign of damage effecting its function.
- The through-hull outlet 2051G did not show any deformation or sign of damage effecting its function; the seacock 28910G did not show sign of damage and remained operable; the hosetail 2156G\*30 did not show any deformation or sign of damage effecting its function.

The detailed results of the component and assembly tests are available on Annexes 1, 2, 3 and 4.

C-4) High temperature operating test as per EN ISO 9093:2021, Section 4.5.3

The seacocks 28910D and 28910G were filled with water and kept at 60°C for 24 hours, retaining their operability at the end of the conditioning.

C-5) Low temperature operating test as per EN ISO 9093:2021, Section 4.5.4



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The seacock 28910D and 28910G were filled with salt water (as defined in ISO 14993:2018 clause 4, NaCl concentration 50 +/- 5 g/l) and kept at 0°C for 24 hours, retaining their operability at the end of the conditioning.

Quarona, 25<sup>th</sup> October 2023

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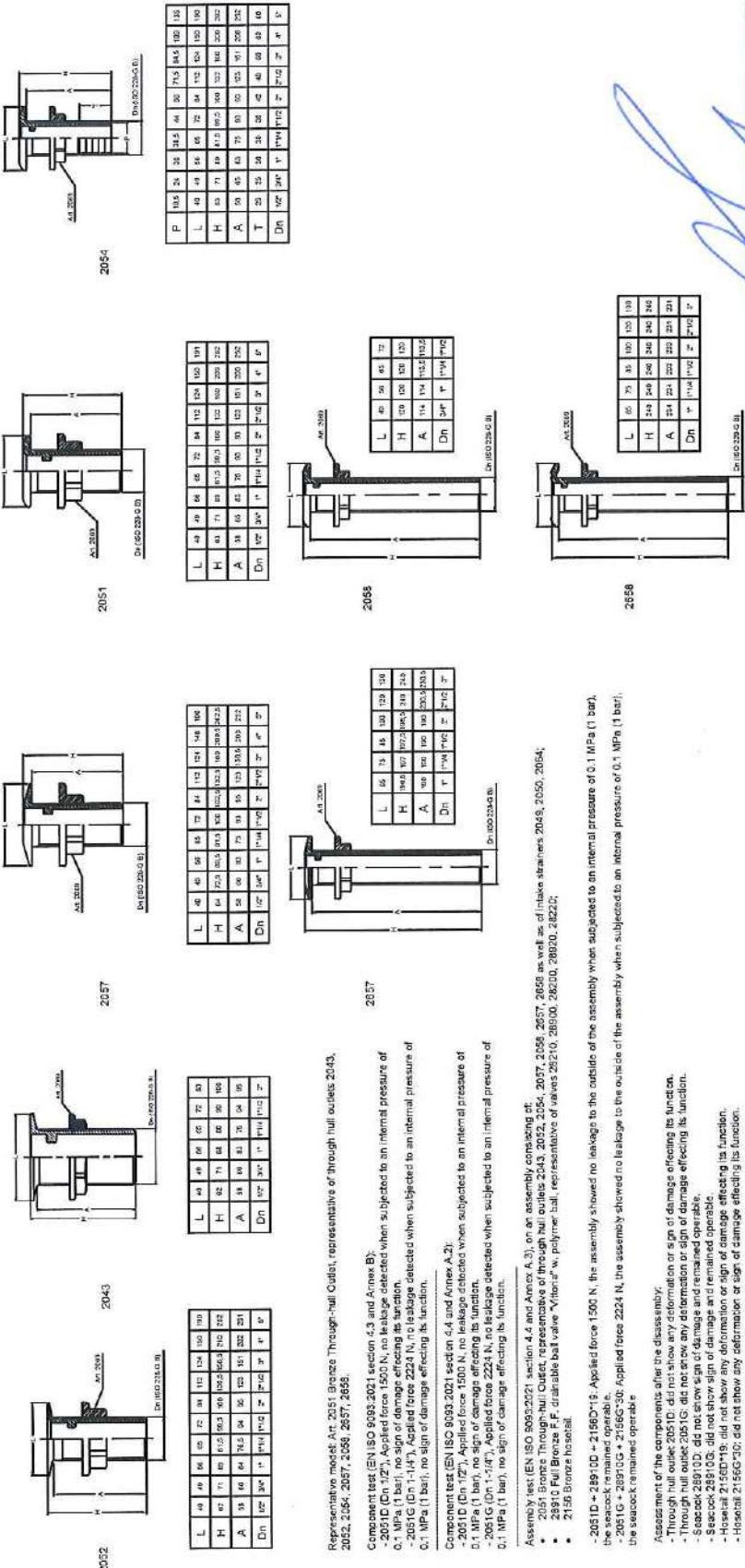
... SRL soc. unipersonale  
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Annex 2, Page 8 of 12

Reference No. TAC-2023/052-SQ366920

Date of tests: 24th-25th October 2023

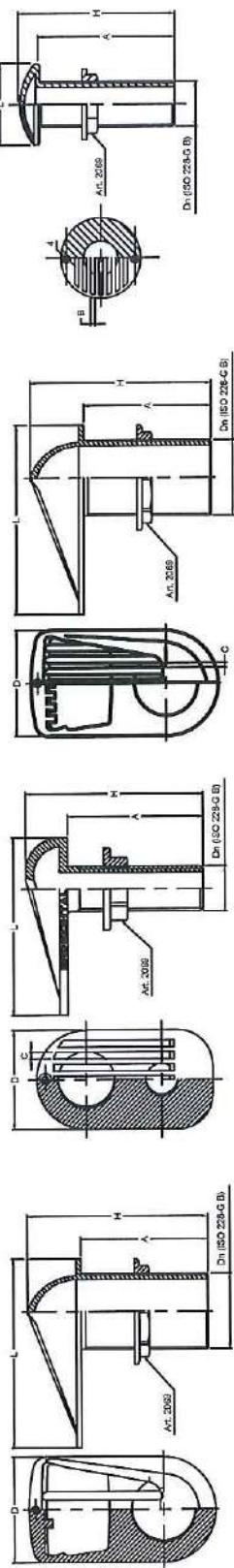


Fig. 1

Fig. 2

	C	4	4	4	4	5,5	5,5
H	96	146	130	140	158	167	217
A	72	115	115	94	130	112	128
L	92	110	110	124	137	158	200
D	50	54	54	65	71	82	111
Dn	162	344	11	114	116	212	3

	2050	L	A	H	C	Dn
		62	103	107	118	132
		125	125	125	125	125
		200	200	200	200	200
		286	286	286	286	286
		321,5	321,5	321,5	321,5	321,5
		234,5	234,5	234,5	234,5	234,5
		185	185	185	185	185
		111	111	111	111	111
		124	124	124	124	124
		148,5	148,5	148,5	148,5	148,5
		207,2	207,2	207,2	207,2	207,2
		37	37	37	37	37
		2	2	2	2	2

Representative model: Art. 2049 Bronze 'high flow' intake strainer w. wide slots, representative of intake strainers 2050, 2064.

Component test [EN ISO 9093/2021 section 4.3 and Annex B]:

- 2049D (Dn 1/2"), Applied force 1500 N, no leakage detected when subjected to an internal pressure of 0,1 MPa (1 bar), no sign of damage effecting its function.
- 2049G (Dn 1-1/4"), Applied force 2224 N, no leakage detected when subjected to an internal pressure of 0,1 MPa (1 bar), no sign of damage effecting its function..

Component test [EN ISO 9093/2021 section 4.4 and Annex A.2]:

- 2049D (Dn 1/2"), Applied force 1500 N, no leakage detected when subjected to an internal pressure of 0,1 MPa (1 bar), no sign of damage effecting its function.
- 2049G (Dn 1-1/4"), Applied force 2224 N, no leakage detected when subjected to an internal pressure of 0,1 MPa (1 bar), no sign of damage effecting its function..

TESTPITI SRL SOC. UNIPERSONALE

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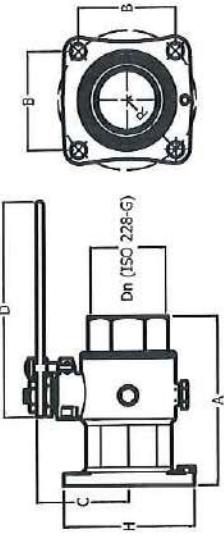
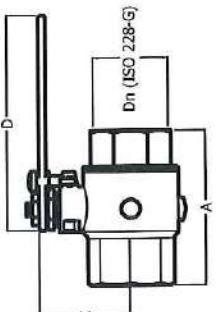
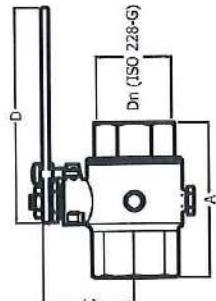
Mr. Alberto Schenone (Maestri Srl.)

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28210 - 28910

28200 - 28900

28220 - 28920



A	56	72	80	97	103	126	161	179	223
A	56	72	80	97	103	126	161	179	223
C	37	45	48	57	60	65	84	111	132
D	65	85	100	110	120	142	162	211	290
Dn	120	140	150	162	170	191	212	271	347

A	56	72	80	97	103	126	161	179	223
A	56	72	80	97	103	126	161	179	223
C	37	45	48	57	60	65	84	111	132
D	65	85	100	110	120	142	162	211	290
Dn	120	140	150	162	170	191	212	271	347

Representative model: 28910 Full Bronze F.F. drainable ball valve "Vittoria" w. polymer ball, representative of valves 28210, 28900, 28220, 28920, 28230.

Component test: (EN ISO 9093:2021 section 4.3 and Annex B):  
• 28910D (Dn 1/2"), Applied force 1500 N, no leakage detected when subjected to an internal pressure of 0.1 MPa (1 bar), no sign of damage effecting its function.

• 28910G (Dn 1-1/4"), Applied force 2324 N, no leakage detected when subjected to an internal pressure of 0.1 MPa (1 bar), no sign of damage effecting its function.

Component test: (EN ISO 9093:2021 section 4.4 and Annex A.2):  
• 28910D (Dn 1/2"), Applied force 1500 N, no leakage detected when subjected to an internal pressure of 0.1 MPa (1 bar), no sign of damage effecting its function.

• 28910G (Dn 1-1/4"), Applied force 2324 N, no leakage detected when subjected to an internal pressure of 0.1 MPa (1 bar), no sign of damage effecting its function.

Component test: (EN ISO 9093:2021 section 4.4 and Annex A.2):  
• 28910D (Dn 1/2"), Applied force 1500 N, no leakage detected when subjected to an internal pressure of 0.1 MPa (1 bar), no sign of damage effecting its function.  
• 28910G (Dn 1-1/4"), Applied force 2324 N, no leakage detected when subjected to an internal pressure of 0.1 MPa (1 bar), no sign of damage effecting its function.

Assembly test (EN ISO 9093:2021 section 4.4 and Annex A.3): an assembly consisting of:  
• 20511 Bronze Through-hull Outlet; representative of through hull outlets 2043, 2052, 2054, 2057, 2058, 2657, 2658 as well as of intake strainers 2059, 2050, 2064;

• 28910 Full Bronze F.F. drainable ball valve "Vittoria" w. polymer ball, representative of valves 28210, 28900, 28220, 28920, 28230;

• 2155 Bronze hoseclips;  
• 20510 + 28910D + 2155G\*19; Applied force 1500 N, the seacock remained operable  
• 20510 + 28910G + 2155G\*30; Applied force 2224 N, the assembly showed no leakage to the outside when subjected to an internal pressure of 0.1 MPa (1 bar), the seacock remained operable.

#### Assessment of the components after the disassembly:

- Through hull outlet 2051D: did not show any deformation or sign of damage effecting its function.
- Through hull outlet 2051G: did not show any deformation or sign of damage effecting its function.
- Seacock 28910D: did not show sign of damage and remained operable.
- Seacock 28910G: did not show sign of damage and remained operable.
- Hoseclip 2155D\*19: did not show any deformation or sign of damage effecting its function.
- Hoseclip 2155G\*30: did not show any deformation or sign of damage effecting its function.

#### High temperature operating test on seacock[EN ISO 9093:2021 section 4.5.3]

- Low temperature operating test on seacock[EN ISO 9093:2021 section 4.5.4]
- Seacock 28910D: filled with water and kept at 60 degrees C for 24 hours, at the end of the conditioning retained its operability.
  - Seacock 28910G: filled with water and kept at 60 degrees C for 24 hours, at the end of the conditioning retained its operability.

- Low temperature operating test on seacock[EN ISO 9093:2021 section 4.5.4]
- Seacock 28910D: filled with salt water (as defined in ISO 14693:2018 clause 4, NaCl concentration 50 +/- 5 g/l) and kept at 0 degrees C for 24 hours, at the end of the conditioning retained its operability.
  - Seacock 28910G: filled with salt water (as defined in ISO 14693:2018 clause 4, NaCl concentration 50 +/- 5 g/l) and kept at 0 degrees C for 24 hours, at the end of the conditioning retained its operability.

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MADE IN ITALY  
since 1964

# TEST CERTIFICATE

## CERTIFICATO DI COLLAUDO

Type / Tipo 3.1 Reference / Riferimento UNI EN 10204:2005

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin	Method Name	Method Version	Operator Name	Correction Type	Type Corr Sample Name
FONDERIA MODERNA 270/3-2050D-1	Uniktown	2023-05-26 3:21:51 PM	2023-05-26 3:21:51 PM	Measured	Cu-50MO			None	
Check Type	Check Status	Grade Verification Name	Grade Verification Similarity	Grade Search Name	Grade Search Similarity			Grade Search Similarity	
GradeWarning	Ok	CB499K-UBA	100 %					0 %	
FORNITORE	NR. EROLLA	ARTICOLO	RIF. NORMA	CLIENTE	DATA BASE	NOTE			
FONDERIA MODERNA	270	3-2050D-1	CB499K-UBA	MAESTRINI					

### Elements Conc.

Meas.	Zn	Pb	Sn	P	Mn	Fe	Ni	Si	Cr	As
	%	%	%	%	%	%	%	%	%	%
Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
W. Min	4.00	0.20	4.00			0.100				
Mean	5.61	2.98	4.54	<0.002	<0.001	0.16	0.48	<0.002	<0.0002	0.013
W. Max	6.00	3.00	6.00	0.040		0.30	0.60			

Meas.	Sb	Bi	Ag	Al	S	Cu				
	%	%	%	%	%	%				
Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.				
Mean	0.027	<0.018	0.021	<0.004	0.024	86.2				
W. Max	0.100				0.040					

Lloyd's Register EMEA	R
A member of the Lloyd's Register Group	Lloyd's Register
<input type="checkbox"/> Witnessed	<input type="checkbox"/> Notified
<input checked="" type="checkbox"/> Reviewed	
Daniele Magnaghi	25/01/2023
Genoa Office	

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SINCE 1944

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## TEST CERTIFICATE

## CERTIFICATO DI COLLAUDIO

Type / Tipo 3.1 Reference / Riferimento UNI EN 10204:2005

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin	Method Name	Method Version	Operator Name	Correction Type	Type Corr Sample Name
SCROLAVEZZA/26.10. 21/3/2049M-1/EN	Unknown	2021-10-26 3:06:52 PM	2021-10-26 3:06:52 PM	Measured	Cu-50M0			None	
Check Type	Check Status	Grade Verification Name		Grade Verification Similarity		Grade Search Name		Grade Search Similarity	
GradeWarning	Ok	CB491K.		100 %				0 %	
FORNITORE	NR. BOLLA	ARTICOLO	LEGA	RIF-NORMA	CLIENTE	DATA BASE	NOTE	NOTE	
SCROLAVEZZA	26.10.21	3-2049M-1	CB491K	EN	MAESTRINI				

## Elements Conc.

Meas.	Zn	Pb	Sn	P	Mn	Fe	Ni	Si	Cr	As
Conc.	%	%	%	%	%	%	%	%	%	%
W. Min	4.00	4.00	4.00	4.00	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Mean	5.55	5.68	4.62	0.012	<0.001	0.089	0.46	<0.004	<0.0005	0.013
W. Max	6.00	6.00	6.00	0.100	0.30	2.00	0.010			

Meas.	Sb	Bi	Ag	Al	S	Cu				
Conc.	%	%	%	%	%	%				
Mean	0.024	<0.011	0.018	<0.003	0.036	83.5				
W. Max	0.25				0.100					



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25/01/2023