

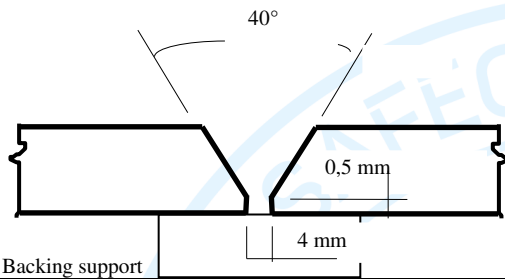
# PROCEDURE QUALIFICATION RECORD (PQR)

(QW-200.2 – QW-483 Section IX ASME Boiler and Pressure Vessel code)

PRD-0616-24-ITA-DNV

Company name and address:	F.A.I.L. S.r.l. - Via G. Galilei, 18 - 42020 San Polo D'Enza (RE) Italy
Procedure Qualification Record no. :	06-2023
WPS no:	06-2023 Rev.0
Date:	03/04/2023
Welding Process(es):	SMAW
Type/s: (Manual, Semi-Automatic, Machine, Automatic)	Manual

## Joints (QW 402) Typical Joint Detail



Thickness (T)	30 mm
Size (W x L)	300 x 400 mm
Root Gap	4 mm
Root Face	0,5 mm
Groove Angle	40°

Parent Material (QW-403)						Post-weld heat treatment (QW-407)				
Material Specification	ASTM A743			to	ASTM A743			Temperature:	A: 1040 T: 620	°C °C
Type and Grade or UNS	CA6NM			to	CA6NM			Time	A: 120 T: 180	Minutes Minutes
P No.	6	G No.	4	c/to P No.	6	G No.	4	Heating Rate	100	°C/hours
Thickness of Test Coupon	30 mm						Cooling Rate	In air	°C/hours	
Diameter of Test Coupon	N.A.						Other	No	No	
Maximum Pass Thickness	Up to 3.0 mm									

Other: Parent Material Heat no. 622950 Test Certificate no. 663980 dt: 01/06/2017

Filler Metal (QW-404)	a)	b)	c)
SFA Specification	5.4		
AWS Classification	E410NiMo		
Filler Metal F.no	5		
Weld metal Analysis A no.	N.A.		
Size of Filler metal	Ø 3,2 mm		
Filler Material Make	KOY 89 NI COMMERSALD		
Filler Metal Product form	N.A.		
Supplemental Filler Metal	N.A.		
Flux Type	N.A.		
Flux Trade Name	N.A.		
Weld metal thk [mm]	30		

Other : SMAW Electrode – Ø 3,2 mm Heat No. 9950835 – COMMERSALD Certificate No. 1313-2023.

Lack of fulfilment of conditions as set out in the Contract with DNV may render this Certificate invalid.

DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel: 039 68 99 905. [www.dnv.it/assurance](http://www.dnv.it/assurance)

# PROCEDURE QUALIFICATION RECORD (PQR)

(QW-200.2 – QW-483 Section IX ASME Boiler and Pressure Vessel code)

PRD-0616-24-ITA-DNV

Position (QW-405)		Preheat (QW-406)	
Position(s) of Groove:	1G	Preheat Temperature [°C]:	20°C
Weld Progression (Uphill - Downhill):	N.A.	Interpass Temperature [°C]:	260°C
Position(s) of Fillet:	-	Preheat Maintenance:	No
Other:	No	Other:	No

Gas (QW-408)				Electrical Characteristics (QW-409)	
	Gas(es)*	Mixture %	Flow rate [l/min]:	*Tungsten Electrode Type/Size [mm]:	N.A.
Shielding:	N.A.	N.A.	N.A.	Mode of Metal Transfer (GMAW FCAW):	N.A.
Trailing:	N.A.	N.A.	N.A.	Heat Input (KJ/mm):	0.98
Backing:	N.A.	N.A.	N.A.	Other:	No

Electrical Characteristics (QW-409)									
Weld Pass(es)	Process	Filler Metal		Current Type and Polarity	Volts (Range)	Amps (range)	Wire Speed (range)	Energy or Power (range)	Travel speed (range)
		Classification	Diameter						
SEE ATTACHED WELDING TABLE FOR PASSES DETAIL									
Pulsating Current : N.A.									
Other:	No								

Technique (QW410)	
String or Weave Bead	String
Orifice, Nozzle or Gas Cup Size	N.A.
Initial and Interpass Cleaning( Brushing, Grinding etc)	Grinding
Method of back Gouging	N.A.
Oscillation	N.A.
Contact Tube to Work Distance	N.A.
Multipass or Single pass (per Side)	Multipass
Single or Multiple electrodes	Single
Peening	Not Allowed
Other	No

Tensile Test (QW-150)								
Specimen No.	Dimensions (mm)			Ultimate Unit Stress				Type of Failure and Location
	Ø / a x b ( mm )	Area (mm <sup>2</sup> )	Ultimate Total Load (N)	Rp (N/mm <sup>2</sup> ) ≥	Rm (N/mm <sup>2</sup> ) ≥	A %	Z %	
T1-1	14.07x19.01	268	238085	-	890	-	-	Ductile HAZ
T2-1	18.43x19.13	353	316524	-	898	-	-	Ductile B.M.
T3-2	19.63x19.08	375	325649	-	869	-	-	Ductile B.M.
T4-2	13.21x19.02	251	208155	-	829	-	-	Ductile HAZ

Guided Bend Test (QW-160)		
Specimen No.	Type and figure No.	Result
1	SIDE BEND – Fig. QW-462.2 (Bend Anlge 180°)	Satisfactory
2	SIDE BEND – Fig. QW-462.2 (Bend Anlge 180°)	Satisfactory
3	SIDE BEND – Fig. QW-462.2 (Bend Anlge 180°)	Satisfactory
4	SIDE BEND – Fig. QW-462.2 (Bend Anlge 180°)	Satisfactory

Lack of fulfilment of conditions as set out in the Contract with DNV may render this Certificate invalid.

DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel: 039 68 99 905. [www.dnv.it/assurance](http://www.dnv.it/assurance)

# PROCEDURE QUALIFICATION RECORD (PQR)

(QW-200.2 – QW-483 Section IX ASME Boiler and Pressure Vessel code)

PRD-0616-24-ITA-DNV

Toughness test (QW-170) - ISO 9016 - ISO148-1								
	Notch	Specimen	Notch	Test	Obtained Impact Values		Lateral Expansions	Drop Weight Break (Y/N)
Specimens No.	Location	Size (mm)	Tipo/Type	Temp . (°C)	Joule	% Shear	≥ 0,38mm	
					27			
1	VWT 0/2	10x10x55	V-Notch	23	77	-	-	-
2	VWT 0/2	10x10x55	V-Notch	23	84	-	-	-
3	VWT 0/2	10x10x55	V-Notch	23	78	-	-	-
Average					80	-	-	-
1	VHT 1/2	10x10x55	V-Notch	23	78	-	-	-
2	VHT 1/2	10x10x55	V-Notch	23	67	-	-	-
3	VHT 1/2	10x10x55	V-Notch	23	70	-	-	-
Average					72	-	-	-
Comments:	-							

### Fillet-Weld Test (QW-180)

Result - Satisfactory:  N.A.  YES  NO

Penetration into Parent Metal:  N.A.  YES  NO

### Other Tests

	Report ID reference:	Result:
Visual Inspection	TEC-EUROLAB Certificate 23-03719-02 dated 08/06/2023	<input type="checkbox"/> N.A. <input checked="" type="checkbox"/> Satisfactory
Dye Penetrant Test	TEC-EUROLAB Certificate 23-03719-03 dated 20/06/2023	<input type="checkbox"/> N.A. <input checked="" type="checkbox"/> Satisfactory
Radiography Test	TEC-EUROLAB Certificate 23-03719-01 dated 08/06/2023	<input type="checkbox"/> N.A. <input checked="" type="checkbox"/> Satisfactory
Hardness Test	Not Required	<input checked="" type="checkbox"/> N.A. <input type="checkbox"/> Satisfactory
Macroscopic Test	TEC-EUROLAB Certificate 23-03719-07 dated 20/06/2023	<input type="checkbox"/> N.A. <input checked="" type="checkbox"/> Satisfactory

Welder's Name: POLISE GENNARO

Clock No. : NA

Stamp No. : PL

Tests conducted by: TEC-EUROLAB (Tensile Test)

Laboratory test No.: 23-03719-04

Date: 22/06/2023

Tests conducted by: TEC-EUROLAB (Bend Test)

Laboratory test No.: 23-03719-05

Date: 20/06/2023

Tests conducted by: TEC-EUROLAB (Impact Test)

Laboratory test No.: 23-03719-06

Date: 23/06/2023

We certify that statements in this record are correct and that the test welds were prepared, welded, and tested in accordance with the requirements of Section IX ed.2021 of the ASME Code. This Procedure is approved for application under PED Directive 2014/68/EU Annex I Para. 3.1.2 by DNV Business Assurance Italy S.r.l. No.Bo. 0496.

Test conducted under supervision of Manufacturer. Records of PQR approval signed by Manufacturer shall be maintain and available for review.

Manufacturer: F.A.I.L. S.r.l.  
by: Branchi Luca  
Place of welding: F.A.I.L. srl – S. Polo D' Enza (RE) Italy  
Date of welding: 03/04/2023

Inspection Authority: DNV  
Examiner: Fabiano Fabbri  
Date of issuing: 21/03/2024

For the Manufacturer



0539ISP  
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



For the Certification Body



Maurizio Bellina

Management Representative

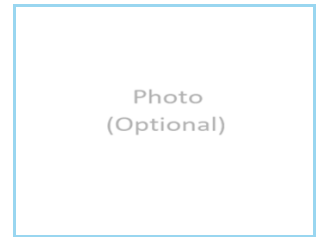
Lack of fulfilment of conditions as set out in the Contract with DNV may render this Certificate invalid.

DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel: 039 68 99 905. www.dnv.it/assurance

# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0617-24-ITA-DNV

Standard: ASME BPVC.IX-2021  
 Manufacturer's WPS: 01-2013  
 Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**  
 Id. method: Driving License Stamp: PL  
 Employer: **F.A.I.L. S.r.l., Via G. Galilei, 18 , 42020 S. Polo D'Enza (RE), Italy**



Spec. and type/grade/UNS of base metal(s) (side 1/2):  
 1 **ASTM A216 WCB** Thickness (mm): 1 **20** 2 **20**  
 2 **ASTM A216 WCB**

Welding variables (QW-350)	Actual Values				Range Qualified			
Welding process(es)	a	SMAW	b	-	a	SMAW	b	-
Transfer mode	a	-	b	-	a	-	b	-
Product type	Plate - Groove				Plate & Pipe- Groove, All fillet sizes in any thickness & O.D.			
Backing	a	With	b	-	a	With	b	-
Base metal P-No. to P-No.	a	P-No.1	b	P-No.1	P-No.1 through P-No.15F, P-No.34, or P-No.41 through P-No.49			
Filler metal specification(s) (SFA)	a	SFA-5.1	b	-	For information only			
Filler metal classification(s)	a	ER7018-1	b	-				
Filler metal F-number(s)	a	F-No.4			a	F-No.1, 2, 3, 4 With Backing		
Filler metal F-number(s)	b	-			b	-		
Consumable insert (GTAW or PAW)	-				-			
Filler Metal Product Form (QW-404.23) (GTAW or PAW)	a	-	b	-	a	-	b	-
Deposited thickness (mm) 3 layers minimum	a	Yes	a	20	Unlimited			
Deposited thickness (mm) 3 layers minimum	b	-	b	-	-			
Outside pipe diameter [O.D.] (mm)	-				-			
Welding position(s)	a	1G	b	-	F (O.D. ≥73) F (Fillet/ Tack)			
Vertical progression	a	-	b	-	a	-	b	-
Type of fuel gas (OFW only)	-				-			
Use of backing gas (GTAW, PAW, GMAW)	-				-			
GTAW current type and polarity	DCEP				DCEP			
Type (Manual, Semi-automatic)	a	Manual	b	-	a	Manual	b	-

Production weld  Test coupon

Test performed	
Visual test (QW-302.4)	Satisfactory
Radiographic test (QW-191)	Satisfactory
Ultrasonic test (QW-191)	Not performed
Macro examination (QW-184)	Not performed
Bend tests (QW-462)	Not performed
Fracture tests (QW-181.2)	Not performed
Other tests (see note on pag.2)	Not performed

Examiner:  
**Fabiano Fabbri**



Place of welding:  
**San Polo D'Enza (RE)**  
 Date of welding:  
**03-04-2023**  
 Revalidation method: (a)  
 Expiry date: **03-04-2026**



for DNV Product Assurance

*Maurizio Bellina*

**Maurizio Bellina**  
 Management Representative

Place and date of issue:  
**Vimercate (MB), 21-03-2024**

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy +39 68 99 905 www.dnv.it/assurance

# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0617-24-ITA-DNV

Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**

Supplementary remarks (Information regarding job knowledge, certificate issued on the basis of previous approval, etc.)

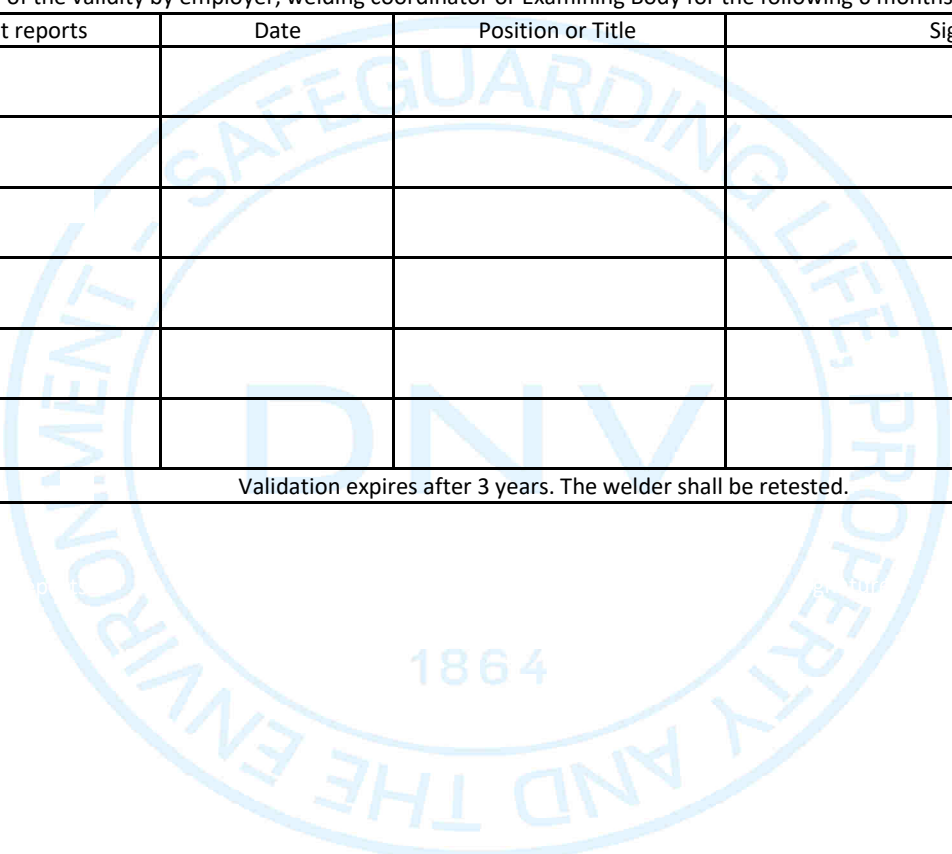
None

Revalidation method 9.3.a) (Refer to EN ISO 9606-1)

Confirmation of the validity by employer, welding coordinator or Examining Body for the following 6 months (refer to 9.2)

Ref. Inspection / test reports	Date	Position or Title	Signature

Validation expires after 3 years. The welder shall be retested.



### Statement

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.

Welder qualification test certificate issued according to Directive PED 2014/68/EU Annex I Para. 3.1.2.

The certificate is approved for application under Directive PED 2014/68/EU by DNV Business Assurance Italy S.r.l., No.Bo. N° 0496. Revalidation requirements as per CABF Recommendation 019 are applied.

Test conducted under supervision of Manufacturer. Records of WPQ approval shall be maintain and available for review.

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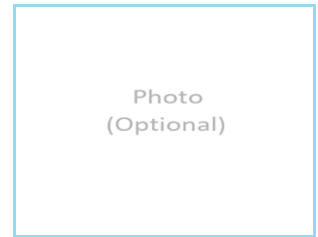
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DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy +39 68 99 905 [www.dnv.it/assurance](http://www.dnv.it/assurance)

# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0618-24-ITA-DNV

Standard: ASME BPVC.IX-2021  
 Manufacturer's WPS: 02-2013  
 Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**  
 Id. method: Driving License Stamp: PL  
 Employer: **F.A.I.L. S.r.l., Via G. Galilei, 18 , 42020 S. Polo D'Enza (RE), Italy**



Spec. and type/grade/UNS of base metal(s) (side 1/2): 1 **ASTM/ASME A/SA 240: S31803** Thickness (mm): 1 **20** 2 **20**  
 2 **ASTM/ASME A/SA 240: S31803**

Welding variables (QW-350)	Actual Values				Range Qualified			
Welding process(es)	a	SMAW	b	-	a	SMAW	b	-
Transfer mode	a	-	b	-	a	-	b	-
Product type	Plate - Groove				Plate & Pipe- Groove, All fillet sizes in any thickness & O.D.			
Backing	a	With	b	-	a	With	b	-
Base metal P-No. to P-No.	a	P-No.10H	b	P-No.10H	P-No.1 through P-No.15F, P-No.34, or P-No.41 through P-No.49			
Filler metal specification(s) (SFA)	a	SFA-5.4	b	-	For information only			
Filler metal classification(s)	a	E2594-15	b	-				
Filler metal F-number(s)	a	F-No.5			a	F-No.5 With Backing		
Filler metal F-number(s)	b	-			b	-		
Consumable insert (GTAW or PAW)	-				-			
Filler Metal Product Form (QW-404.23) (GTAW or PAW)	a	-	b	-	a	-	b	-
Deposited thickness (mm) 3 layers minimum	a	Yes	a	20	Unlimited			
Deposited thickness (mm) 3 layers minimum	b	-	b	-	-			
Outside pipe diameter [O.D.] (mm)	-				-			
Welding position(s)	a	1G	b	-	F (O.D. ≥73) F (Fillet/ Tack)			
Vertical progression	a	-	b	-	a	-	b	-
Type of fuel gas (OFW only)	-				-			
Use of backing gas (GTAW, PAW, GMAW)	-				-			
GTAW current type and polarity	DCEP				DCEP			
Type (Manual, Semi-automatic)	a	Manual	b	-	a	Manual	b	-

Production weld  Test coupon

Test performed	
Visual test (QW-302.4)	Satisfactory
Radiographic test (QW-191)	Satisfactory
Ultrasonic test (QW-191)	Not performed
Macro examination (QW-184)	Not performed
Bend tests (QW-462)	Not performed
Fracture tests (QW-181.2)	Not performed
Other tests (see note on pag.2)	Not performed

Examiner:  
**Fabiano Fabbri**



Place of welding:  
**San Polo D'Enza (RE)**  
 Date of welding:  
**03-04-2023**  
 Revalidation method: (a)  
 Expiry date: **03-04-2026**



for DNV Product Assurance

**Maurizio Bellina**  
 Management Representative

Place and date of issue:  
**Vimercate (MB), 21-03-2024**

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

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# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0618-24-ITA-DNV

Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**

Supplementary remarks (Information regarding job knowledge, certificate issued on the basis of previous approval, etc.)

None

Revalidation method 9.3.a) (Refer to EN ISO 9606-1)

Confirmation of the validity by employer, welding coordinator or Examining Body for the following 6 months (refer to 9.2)

Ref. Inspection / test reports	Date	Position or Title	Signature

Validation expires after 3 years. The welder shall be retested.

### Statement

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.

Welder qualification test certificate issued according to Directive PED 2014/68/EU Annex I Para. 3.1.2.

The certificate is approved for application under Directive PED 2014/68/EU by DNV Business Assurance Italy S.r.l., No.Bo. N° 0496. Revalidation requirements as per CABF Recommendation 019 are applied.

Test conducted under supervision of Manufacturer. Records of WPQ approval shall be maintain and available for review.

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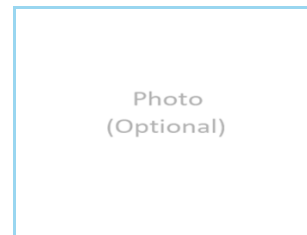
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# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0619-24-ITA-DNV

Standard: ASME BPVC.IX-2021  
 Manufacturer's WPS: 03-2013  
 Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**  
 Id. method: Driving License Stamp: PL  
 Employer: **F.A.I.L. S.r.l., Via G. Galilei, 18 , 42020 S. Polo D'Enza (RE), Italy**



Spec. and type/grade/UNS of base metal(s) (side 1/2): 1 **ASTM/ASME A/SA 240: 316L** Thickness (mm): 1 **20** 2 **20**  
 2 **ASTM/ASME A/SA 240: 316L**

Welding variables (QW-350)	Actual Values				Range Qualified			
Welding process(es)	a	SMAW	b	-	a	SMAW	b	-
Transfer mode	a	-	b	-	a	-	b	-
Product type	Plate - Groove				Plate & Pipe- Groove, All fillet sizes in any thickness & O.D.			
Backing	a	With	b	-	a	With	b	-
Base metal P-No. to P-No.	a	P-No.8	b	P-No.8	P-No.1 through P-No.15F, P-No.34, or P-No.41 through P-No.49			
Filler metal specification(s) (SFA)	a	SFA-5.4	b	-	For information only			
Filler metal classification(s)	a	E316L-26	b	-				
Filler metal F-number(s)	a	F-No.5			a	F-No.5 With Backing		
Filler metal F-number(s)	b	-			b	-		
Consumable insert (GTAW or PAW)	-				-			
Filler Metal Product Form (QW-404.23) (GTAW or PAW)	a	-	b	-	a	-	b	-
Deposited thickness (mm) 3 layers minimum	a	Yes	a	20	Unlimited			
Deposited thickness (mm) 3 layers minimum	b	-	b	-	-			
Outside pipe diameter [O.D.] (mm)	-				-			
Welding position(s)	a	1G	b	-	F (O.D. ≥73) F (Fillet/ Tack)			
Vertical progression	a	-	b	-	a	-	b	-
Type of fuel gas (OFW only)	-				-			
Use of backing gas (GTAW, PAW, GMAW)	-				-			
GTAW current type and polarity	DCEP				DCEP			
Type (Manual, Semi-automatic)	a	Manual	b	-	a	Manual	b	-

Production weld  Test coupon

Test performed	
Visual test (QW-302.4)	Satisfactory
Radiographic test (QW-191)	Satisfactory
Ultrasonic test (QW-191)	Not performed
Macro examination (QW-184)	Not performed
Bend tests (QW-462)	Not performed
Fracture tests (QW-181.2)	Not performed
Other tests (see note on pag.2)	Not performed

Examiner:  
**Fabiano Fabbri**

Place and date of issue:  
**Vimercate (MB), 21-03-2024**



Place of welding:  
**San Polo D'Enza (RE)**  
 Date of welding:  
**03-04-2023**  
 Revalidation method: (a)  
 Expiry date: **03-04-2026**



for DNV Product Assurance

**Maurizio Bellina**  
 Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy +39 68 99 905 www.dnv.it/assurance



# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0619-24-ITA-DNV

Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**

Supplementary remarks (Information regarding job knowledge, certificate issued on the basis of previous approval, etc.)

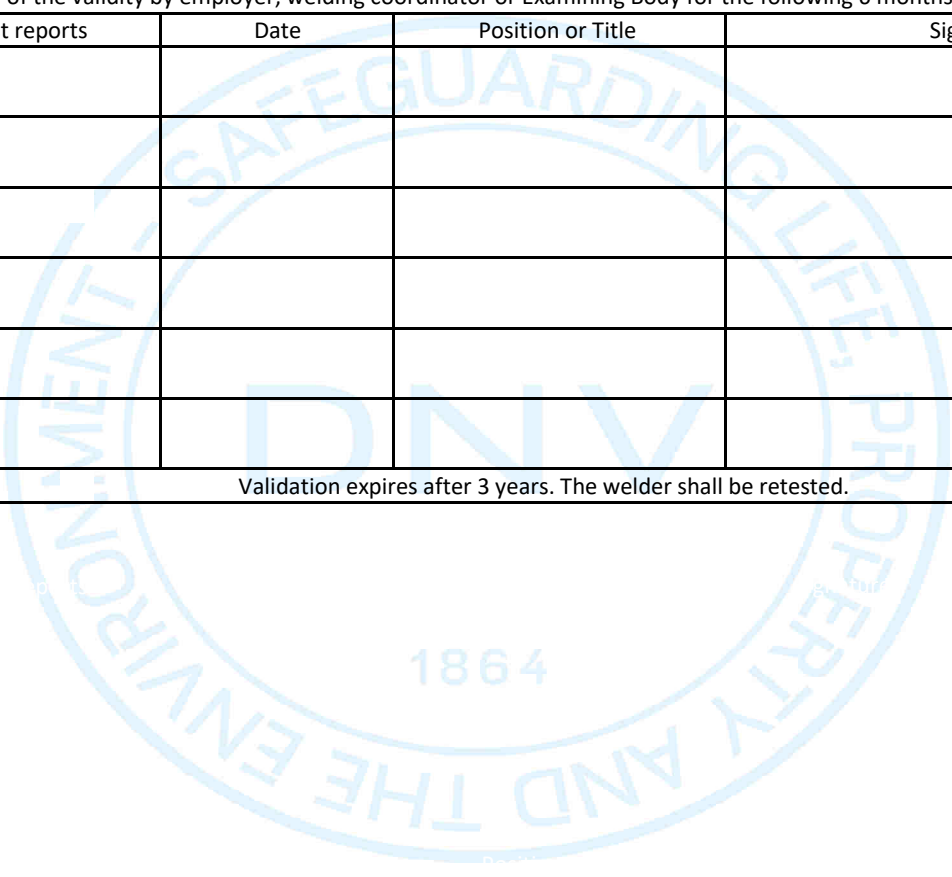
None

Revalidation method 9.3.a) (Refer to EN ISO 9606-1)

Confirmation of the validity by employer, welding coordinator or Examining Body for the following 6 months (refer to 9.2)

Ref. Inspection / test reports	Date	Position or Title	Signature

Validation expires after 3 years. The welder shall be retested.



**Statement**

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.

Welder qualification test certificate issued according to Directive PED 2014/68/EU Annex I Para. 3.1.2.

The certificate is approved for application under Directive PED 2014/68/EU by DNV Business Assurance Italy S.r.l., No.Bo. N° 0496. Revalidation requirements as per CABF Recommendation 019 are applied.

Test conducted under supervision of Manufacturer. Records of WPQ approval shall be maintain and available for review.

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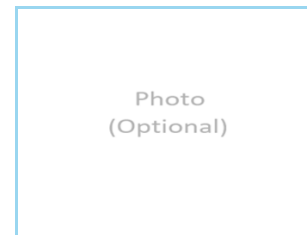
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# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0620-24-ITA-DNV

Standard: ASME BPVC.IX-2021  
 Manufacturer's WPS: 04-2013  
 Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**  
 Id. method: Driving License Stamp: PL  
 Employer: **F.A.I.L. S.r.l., Via G. Galilei, 18 , 42020 S. Polo D'Enza (RE), Italy**



Spec. and type/grade/UNS of base metal(s) (side 1/2):  
 1 **ASTM/ASME B/SB 443: N06625** Thickness (mm): 1 **20** 2 **20**  
 2 **ASTM/ASME B/SB 443: N06625**

Welding variables (QW-350)	Actual Values		Range Qualified					
Welding process(es)	a	SMAW	b	-	a	SMAW	b	-
Transfer mode	a	-	b	-	a	-	b	-
Product type	Plate - Groove			Plate & Pipe- Groove, All fillet sizes in any thickness & O.D.				
Backing	a	With	b	-	a	With	b	-
Base metal P-No. to P-No.	a	P-No.43	b	P-No.43	P-No.1 through P-No.15F, P-No.34, or P-No.41 through P-No.49			
Filler metal specification(s) (SFA)	a	SFA-5.11	b	-	For information only			
Filler metal classification(s)	a	E NiCrMo-3	b	-				
Filler metal F-number(s)	a	F-No.43		a	F-No.34 and all F-No.41 through F-No.46			
Filler metal F-number(s)	b	-		b	-			
Consumable insert (GTAW or PAW)	-		-		-			
Filler Metal Product Form (QW-404.23) (GTAW or PAW)	a	-	b	-	a	-	b	-
Deposited thickness (mm) 3 layers minimum	a	Yes	a	20	Unlimited			
Deposited thickness (mm) 3 layers minimum	b	-	b	-	-			
Outside pipe diameter [O.D.] (mm)	-		-		-			
Welding position(s)	a	1G	b	-	F (O.D. ≥73) F (Fillet/ Tack)			
Vertical progression	a	-	b	-	a	-	b	-
Type of fuel gas (OFW only)	-		-		-			
Use of backing gas (GTAW, PAW, GMAW)	-		-		-			
GTAW current type and polarity	DCEP		DCEP		DCEP			
Type (Manual, Semi-automatic)	a	Manual	b	-	a	Manual	b	-

Production weld  Test coupon

Test performed	
Visual test (QW-302.4)	Satisfactory
Radiographic test (QW-191)	Satisfactory
Ultrasonic test (QW-191)	Not performed
Macro examination (QW-184)	Not performed
Bend tests (QW-462)	Not performed
Fracture tests (QW-181.2)	Not performed
Other tests (see note on pag.2)	Not performed

Examiner:  
**Fabiano Fabbri**



PRD N° 003 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Place of welding:  
**San Polo D'Enza (RE)**  
 Date of welding:  
**03-04-2023**  
 Revalidation method: (a)  
 Expiry date: **03-04-2026**



for DNV Product Assurance

*Maurizio Bellina*

**Maurizio Bellina**  
 Management Representative

Place and date of issue:  
**Vimercate (MB), 21-03-2024**

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DNV Business Assurance Italy S.r.l. Via Energy Park, 14, 20871 Vimercate (MB), Italy +39 68 99 905 www.dnv.it/assurance

# WELDER PERFORMANCE QUALIFICATION TEST CERTIFICATE

## PRS-0620-24-ITA-DNV

Welder's name: **GENNARO POLISE**  
 Place and date of birth: **Napoli (NA), 15-08-1965**

Supplementary remarks (Information regarding job knowledge, certificate issued on the basis of previous approval, etc.)

None

Revalidation method 9.3.a) (Refer to EN ISO 9606-1)

Confirmation of the validity by employer, welding coordinator or Examining Body for the following 6 months (refer to 9.2)

Ref. Inspection / test reports	Date	Position or Title	Signature

Validation expires after 3 years. The welder shall be retested.

### Statement

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.

Welder qualification test certificate issued according to Directive PED 2014/68/EU Annex I Para. 3.1.2.

The certificate is approved for application under Directive PED 2014/68/EU by DNV Business Assurance Italy S.r.l., No.Bo. N° 0496. Revalidation requirements as per CABF Recommendation 019 are applied.

Test conducted under supervision of Manufacturer. Records of WPQ approval shall be maintain and available for review.

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Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

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