

## Welding Procedure Approval Test Certificate

Manufacturer's Welding Procedure: P8-3400

Reference N°.: PQR-No.: P8-3400

Inspection Authority:

HSB International GmbH

Test N°.:

US.PEN.1340.00-J 13-001

Specimen N°.:

Manufacturer: Penflex Corporation

Address: 105B Industrial Drive,  
Gilbertsville, PA 19525,  
USA

Code / Testing Standard: ASME Sec. IX / PED 97/23/EC\*

Date of Welding: October 10<sup>th</sup>, 2012

	Actual Welding Data	Range of Approval
Welding Process:	GTAW (Automatic)	GTAW
Joint Type:	Plate- Groove joint	All
Base Metals:	ASTM A240-316L	
	P-No.: 8	P-No.: 8
	Gr.-No.: 1	Gr.-No.: N/A
	[in.] T: 0.006	T: 0.006 – 0.012
	OD: N/A	All pipe and plate
Filler Metals:	No filler metals	Without filler metal only
	[in.] t: 0.006	t: max. 0.012
	[in.] t <sub>pass</sub> : 0.006	t <sub>pass</sub> : N/A
Position:	1G	N/A
Preheat Temp.:	50°F	min 45°F
Interpass Temp.:	N/A	N/A
Technique:	Single pass	N/A
Shielding gas:	100% Argon	100% Argon
Backing gas:	100% Argon	N/A
Electrical Characteristics:	Current: DC/EN	N/A
Post Weld Heat Treatment:	Without PWHT	Without PWHT only

We certify that the test welds were prepared, welded and tested satisfactory in accordance with the requirements of above-mentioned Code / testing standard.

\* Scope of tests as required by the applicable European Welding Standard have been performed to meet the requirements of the PED 97/23/EC.

\*The welding procedure is qualified to perform permanent weld joinings for pressure equipment in categories I, II, III and IV of PED 97/23/EC.

Location, Date of issue: Rheine, February 07<sup>th</sup>, 2013

Signature and Name:

0871  
  
 Adam Gajewski  
 European Welding Engineer  
 HSB Int'l

## Welding Procedure Approval Test Certificate

Manufacturer's Welding Procedure: P8-3397  
 Reference N°.: PQR-No.: P8-3397

Inspection Authority: HSB International GmbH  
 Test N°.: US.PEN.1340.00-J 13-002  
 Specimen N°.:

Manufacturer: Penflex Corporation

Address: 105B Industrial Drive,  
 Gilbertsville, PA 19525,  
 USA

Code / Testing Standard: ASME Sec. IX / PED 97/23/EC\*  
 Date of Welding: October 10<sup>th</sup>, 2012

	Actual Welding Data	Range of Approval
Welding Process:	GTAW (Automatic)	GTAW
Joint Type:	Plate- Groove joint	All
Base Metals:	ASTM A240-316L P-No.: 8 Gr.-No.: 1 [in.] T: 0.015 OD: N/A	P-No.: 8 Gr.-No.: N/A T: 0.015 – 0.030 All pipe and plate
Filler Metals:	No filler metals [in.] t: 0.015 [in.] t <sub>pass</sub> : 0.015	Without filler metal only t: max. 0.030 t <sub>pass</sub> : N/A
Position:	1G	N/A
Preheat Temp.:	50°F	min 45°F
Interpass Temp.:	N/A	N/A
Technique:	Single pass	N/A
Shielding gas:	100% Argon	100% Argon
Backing gas:	100% Argon	N/A
Electrical Characteristics:	Current: DC/EN	N/A
Post Weld Heat Treatment:	Without PWHT	Without PWHT only

We certify that the test welds were prepared, welded and tested satisfactory in accordance with the requirements of above-mentioned Code / testing standard.

\* Scope of tests as required by the applicable European Welding Standard have been performed to meet the requirements of the PED 97/23/EC.

\*The welding procedure is qualified to perform permanent weld joinings for pressure equipment in categories I, II, III and IV of PED 97/23/EC.

Location, Date of issue: Rheine, February 07<sup>th</sup>, 2013

Signature and Name:

0871  
  
 Adam Gajewski  
 European Welding Engineer  
 HSB Int'l

## Welding Procedure Approval Test Certificate

Manufacturer's Welding Procedure: P42-3398  
 Reference N°.: PQR-No.: P42-3398

Inspection Authority: HSB International GmbH  
 Test N°.: US.PEN.1340.00-J 13-003  
 Specimen N°.:

Manufacturer: Penflex Corporation

Address: 105B Industrial Drive,  
 Gilbertsville, PA 19525,  
 USA

Code / Testing Standard: ASME Sec. IX / PED 97/23/EC\*  
 Date of Welding: October 10<sup>th</sup>, 2012

	Actual Welding Data	Range of Approval
Welding Process:	GTAW (Automatic)	GTAW
Joint Type:	Plate- Groove joint	All
Base Metals:	ASTM B-127 P-No.: 42 Gr.-No.: - [in.] T: 0.010 OD: N/A	P-No.: 42 Gr.-No.: N/A T: 0.010 – 0.020 All pipe and plate
Filler Metals:	No filler metals [in.] t: 0.010 [in.] t <sub>pass</sub> : 0.010	Without filler metal only t: max. 0.020 t <sub>pass</sub> : N/A
Position:	1G	N/A
Preheat Temp.:	50°F	min 45°F
Interpass Temp.:	N/A	N/A
Technique:	Single pass	N/A
Shielding gas:	100% Argon	100% Argon
Backing gas:	100% Argon	N/A
Electrical Characteristics:	Current: DC/EN	N/A
Post Weld Heat Treatment:	Without PWHT	Without PWHT only

We certify that the test welds were prepared, welded and tested satisfactory in accordance with the requirements of above-mentioned Code / testing standard.

\* Scope of tests as required by the applicable European Welding Standard have been performed to meet the requirements of the PED 97/23/EC.

\*The welding procedure is qualified to perform permanent weld joinings for pressure equipment in categories I, II, III and IV of PED 97/23/EC.

Location, Date of issue: Rheine, February 08<sup>th</sup>, 2013

Signature and Name:

0871  
  
 Adam Gajewski  
 European Welding Engineer  


## Welding Procedure Approval Test Certificate

Manufacturer's Welding Procedure: P43-3399

Reference N°.: PQR-No.: P43-3399

Inspection Authority:

HSB International GmbH

Test N°.:

US.PEN.1340.00-J 13-004

Specimen N°.:

Manufacturer: Penflex Corporation

Address: 105B Industrial Drive,  
Gilbertsville, PA 19525,  
USA

Code / Testing Standard: ASME Sec. IX / PED 97/23/EC\*

Date of Welding: October 10<sup>th</sup>, 2012

	Actual Welding Data	Range of Approval
Welding Process:	GTAW (Automatic)	GTAW
Joint Type:	Plate- Groove joint	All
Base Metals:	ASTM B-575 P-No.: 43 Gr.-No.: - [in.] T: 0.010 OD: N/A	P-No.: 43 Gr.-No.: N/A T: 0.010 – 0.020 All pipe and plate
Filler Metals:	No filler metals [in.] t: 0.010 [in.] t <sub>pass</sub> : 0.010	Without filler metal only t: max. 0.020 t <sub>pass</sub> : N/A
Position:	1G	N/A
Preheat Temp.:	50°F	min 45°F
Interpass Temp.:	N/A	N/A
Technique:	Single pass	N/A
Shielding gas:	100% Argon	100% Argon
Backing gas:	100% Argon	N/A
Electrical Characteristics:	Current: DC/EN	N/A
Post Weld Heat Treatment:	Without PWHT	Without PWHT only

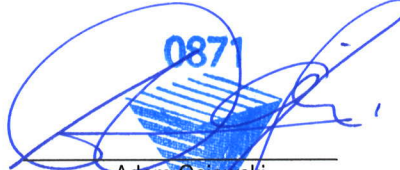
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\*The welding procedure is qualified to perform permanent weld joinings for pressure equipment in categories I, II, III and IV of PED 97/23/EC.

Location, Date of issue: Rheine, February 08<sup>th</sup>, 2013

Signature and Name:

  
0871  
Adam Gajewski  
European Welding Engineer  
