



STOLZ-MIRAS (VIETNAM), LTD.

WELDING PROCEDURE SPECIFICATION (WPS) (EN ISO 15609-1)

Welding Procedure Specification: **SM-GT-P8P8-03**
 WPQR No. : **SM-PQR-GT-P8P8-03**
 Manufacturer : **STOLZ MIRAS VIET NAM CO., LTD.**
 Welding Process: **141**
 Mode of metal transfer: **---**
 Joint Type : **FW**
 Method of Preparation and Cleaning: **Brushing & Grinding**

Rev.: **0**
 Parent Material Designation: **ASTM A240, 304L**
 Material Thickness (mm): **BW, Single run: ---**
 BW, Multi-run: ---
 FW: 3 – 20
 Outside Diameter: **> 500: Fixed pipe**
 (mm) > 150: Rotated pipe in PA, PC, PF
 Welding Position: **All positions except PG, PJ and J-L045**

Weld Preparation Details (Sketch)*

Joint Design	Welding Sequences
Refer to attachment or as per shop drawing	Refer to attachment or as per shop drawing


Welding Details

Run	Welding Process	Size of Filler Material	Current (A)	Voltage (V)	Type of Current/ Polarity	Wire Feed Speed	Run out length/Travel Speed * (mm/min.)	Heat Input * (kJ/mm)
1 (Root)	141	2.4	100 - 150	11 - 12	DCEN	-	80-160	0.35 - 0.76
2-n (Fill & Cap)	141	2.4	100 - 150	11 - 12	DCEN	-	80-160	0.35 - 0.76

Filler material designation and make: **MENAM, ER 308L**
 Any Special Baking or Drying: **None**
 Designation Gas/ Flux: Shielding: **100% Argon**
 Backing: **100% Argon**
 Gas Flow Rate: Shielding: **10 – 15 l/min**
 Backing: **5 – 10 l/min**
 Tungsten Electrode Type/ Size: **Wth20 / Ø 2.4mm**
 Details of Back Gouging/Backing: **---**
 Preheat Temperature: **Ambient temp.**
 Interpass Temperature: **≤ 150 °C**
 Post-Weld Heat Treatment and/or Ageing: **N.A**
 Time, Temperature, Method: **---**
 Heating and Cooling Rates *: **---**

Other Information * e.g.:
 Weaving (maximum width of run): **---**
 Oscillation: amplitude, frequency, dwell time: **---**
 Pulse welding details: **---**
 Distance contact tube/work piece: **5 – 7mm**
 Plasma welding details: **N.A.**
 Torch angle: **65 - 70°**

STOLZ MIRAS VIET NAM

Name: *WIBAUX QUELIN*
 Signature: 
 Date: **12 Sep, 2019**

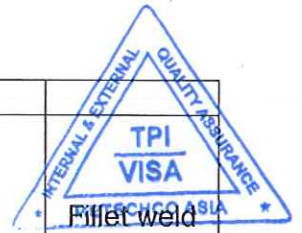
METECHCO ASIA

Name: **NGUYEN DUC THIEN PHUC**
 Signature: 
 Date: **12 Sep, 2019**



* If required

Attachment



No	Joint Design	Weld sequence	
1 T-joint			Fillet weld Single run
2 T-joint			Fillet weld Multi run
3 Lap joint			Fillet weld Single run
4 Lap joint			Fillet weld Multi-run

Note:

1. T – Thickness range as qualified by this WPS