

Manufacturer's Welding Instructions (WPS)

Housing Connection T

DN 25; DN50/40; DN80/65; DN100

TUCHENHAGEN

Date: 2004-11-08 221RLI003025E_1.DOC Replace for: 21S09309E

		DN 23	, DN30/40,	DINOU/03,	DIVIOU	Replace for: 21S09309E
Location: Büch	en			Preparation:	mechanical	
Welding process: 141 (TIG-Pulse)				Cleaning method: brushing or pickling		
Reference-No: WPSAnschlT1004				Specification of the parent metal: 1.4404 (X2CrNiMo17 13 2)		
Welder: Certified according to EN287-1; AD-2000 HP3						
Welding process: 141 DIN EN 24063				Workpiece thickness (mm): $t = 2mm$ to $t = 8 mm$		
Type of joint: see draft				Outside diameter (mm): 145; 165; 200; 225		
Preparation of joint: no gap between flange and base metal				Welding position: PA , PD (overhead)		
Location: Büchen				Preparation: mechanical		
Structure of the joint				Welding procedure		
Welding of the final run in 8 segements				Pulsed arc welding to be applied only		
weld seam		7 2	8 4 6	(number of f	inal runs dependin	
Weld layer	Process	Filler metal Ø [mm]	Current [A]	Voltage [V]	Kind of current/ Electrode polarity	Welding speed [cm/min]
Root	141	1,2; 1,6	50 - 60	10 -14	=/-	3 -7
First layer	141	1,2; 1,6	50 - 60	10 – 14	=/-	3 -7
2,3,4, etc. layers	141	1,2; 1,6	105 -125	10 – 14	=/-	3 -7
Filler metal: 1.4430 (DIN EN 12072: 19 12 3 LSi)				Intermediate layer temperature: T<30°C		
Shielding gas: EN 439 - I ₁				Flow rate [I/min]:		
Backing gas: EN 439 - I ₁				Shielding gas	s: 13 - 15	Backing gas: 10 -20
Manufacturer: Merhof 08.11.20		h	2			
Name, Date and Signature (Welding supervision)				Name, Date and Signature (Welder)		