RADING & TRADING

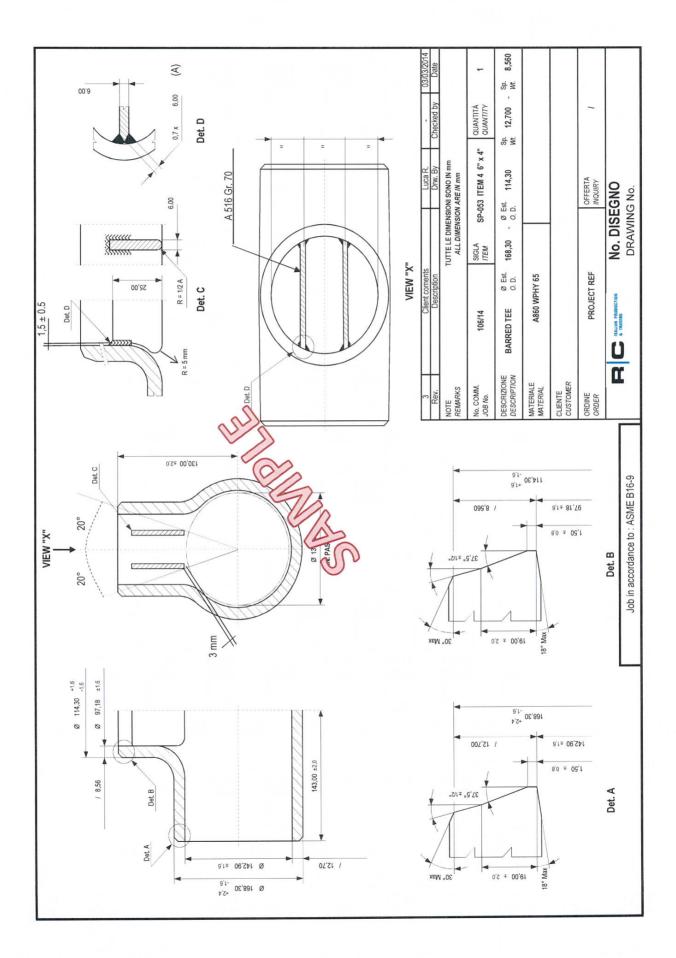
Construction of the state of th

Fittings, forgings, flanges, valves & pipes

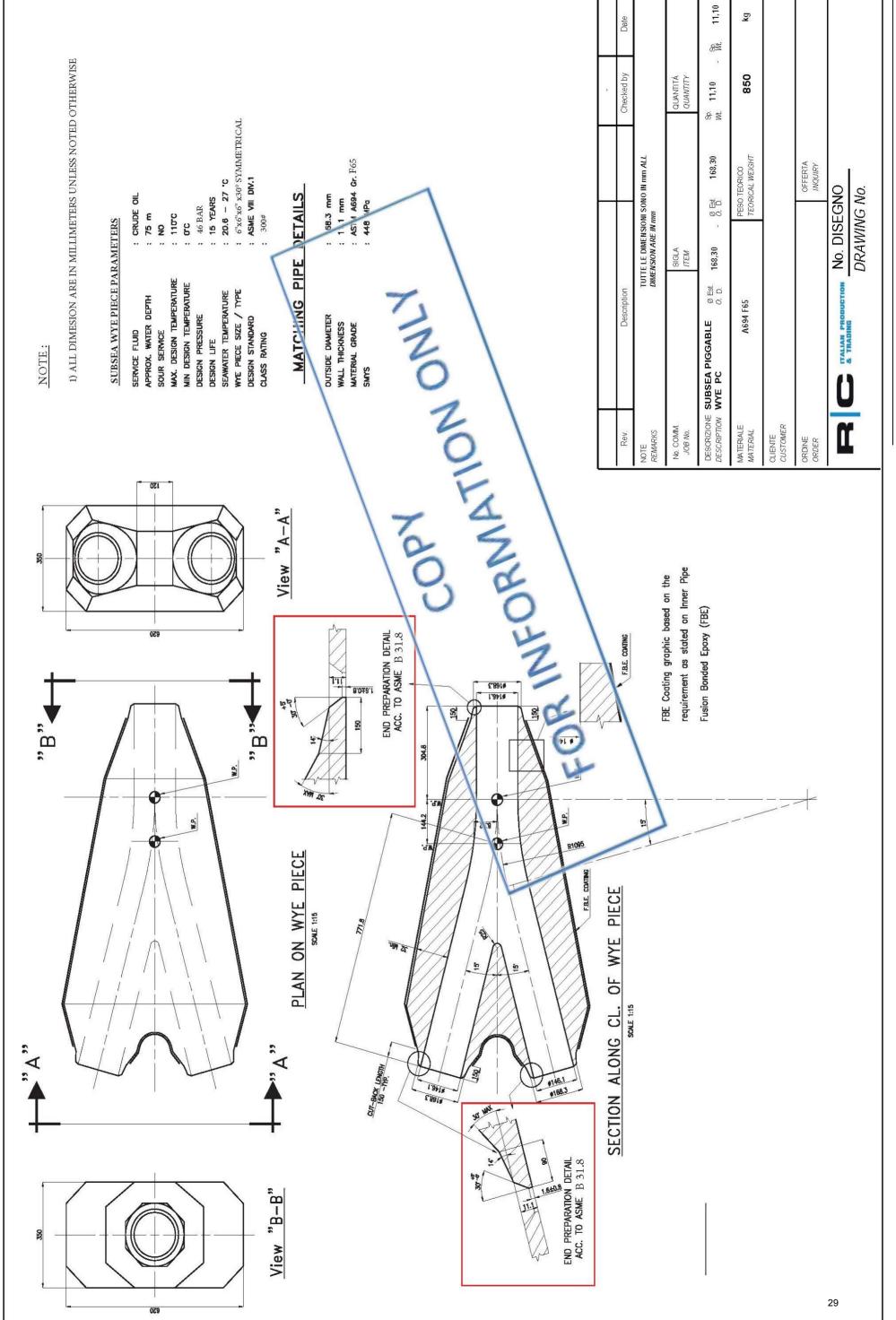
							CERT		FICATO D' ISPEZIONE	O D.	ISP	EZIC	NE						CE	CERT. N° 00 Pag.1	CERT. N° 00
	- 1	1	Inspectio	on certific	cate - Abr	Inspection certificate - Abnahmeprüfzeugnis - Ce	ifzeugnis	- Certific	artificat de réception - EN 10204 : 2005 3.2 -	sption - E	N 1020	4:200		ASME E	ASME B 16.9 - 2007	200					
RC comm	RC commessa interna / internal job		Cliente - Customer	mer					Ordine	a del Cliente	Ordine del Cliente- Customer's order	r's order	/ Bestellur	ng - Comma	Bestellung - Commande du Client	t	Norma di	Norma di collaudo	- Test specific	cation Abnahn	- Test specification Abnahmenome - Specification
	WRC																ASTM A (DOC. No	2013-3200	55; ANSI B1 1M-0018)	ASTM A 860 WPHY65; ANSI B16.9 ; PO REQUIREMENTS (DOC. No 2013-3200-1M-0018)	UIREMENTS
		-								-			Trazione - T	ension - Zu	- Tension - Zugversuch - Traction	action				KV	
Docizio											<u> </u>						Härte -	Durezza Haraness Härte - Dureté		Resilienza- Kerbschiag (30/25 J)	Resilienza- Impact test Kerbschiagzähigkeit – Resilience / (30/25 J)
Stellung Poste	ooste	Dimensione der raccordi / Acciaio Dimensions of fittings / Steel Fittingsabmessungan / Stahl Dimensions des raccords / Acier	nsione dei f fittings / S Dimensions	raccordi / teel Fitting des racco	Acciaio sabmessun ds / Acier	gan			Quan Quan Quan Quan Pc	tity ge tité	Direction r L/T	um mm² Strain di Strain di	Snervamento Yield Point Streckgrenze limit.apparent. d'elasticité	Rottura Tensile Strength Zugfestigkeit Rupture		Allungamento Elongation Dehnung Allongement	Tipo F Type Type Type	Risultato Result. Ermitt Obtenu	Temp. L/T		Risultato Result Obtenu/Ermitt
PS-035	SMI S B/	SMI S BARRED REDUCED TEE 10"x8" Sp. 14.3/12.7mm -A860 WPHY65	ICED TE	E 10"x8"	Sp. 14.3/1	2.7mm -A	860 WPH	Y65	-	+	2	MPA	480	575		55.1	띰	164	-46 L		105 - 110 - 94
PS-039	SMLS B/	SMLS BARRED REDUCED TEE 10"x4" Sp. 14,318,56mm -A860 WPHY65	JCED TE	E 10"x4"	Sp. 14,3/8	,56mm –A	860 WPH	Y65	-		2		480	575		55.1	Ħ	164		,-	105 - 110 - 94
PS-052	SMLS BA	SMLS BARRED REDUCED TEE	JCED TE	E 6"x4"	Sp. 12,7/8	6"x4" Sp. 12,7/8,56mm –A860 WPHY65	860 WPH	Y65 ver	~ ~		2 2	MPA	472	263	1	57 57		166 166	-46 L		86 - 80 - 76
PS-053	SMLS B/	SMLS BARKED KEDUCEU 1EE 6'X4' Sp. 12, //8, S6mm –A860 WFHT65 SMLS BARRED REDUCED TEE 10"X8" Sp. 14, 3/12, 7mm –A860 WPHY65	UCED TE	E 10"x8"	Sp. 12,7/8 Sp. 14,3/1	,56mm –A 2,7mm –A	860 WPH	Y65 Y65			:2		480	2	15	55.1	9 1	164	46 L	,-	86 - 80 - 76 105 - 110 - 94
													0	1	5						
IMPORTANT NOTE		HYDROSTATICH TEST ON TOTAL ITEMS : PERFORMED WITH SATISFAC UT EXAMINATION ON BW MACHINED AFTER HYDRAULCH TEST : PER	CH TEST O	N TOTAL W MACHIN	ITEMS : PE	RFORMED R HYDRAUL	WITH SATI	SFACTORY : PERFORM	TORY RESULT (REPORT HYT N° 00 FORMED (CRC RPRT 23242) 3245)	REPORT HY	T N° 00	V	I		-		Fat	bricazione	/Trattamento	o - Manufactur	Fabbricazione /Trattamento - Manufacture / Heat treatment
Analisi chi	Analisi chimica di colata - L	- Ladie analysis - Schmelzanalyse - Analyse chimique de coulée - Check analysis	Schmelzar	alyse - Ana	Ilyse chimiq	ue de coulét	e - Check ar	alysis		as	A	3					B B B	T FORMED	BUTT WELD T 920°C & TE	HOT FORMED BUTT WELD 780° - 980°C, COOLE QUENCHING AT 920°C & TEMPERING AT 579°C	HOT FORMED BUTT WELD 780° - 980°C, COOLED IN STIIL AIR QUENCHING AT 920°C & TEMPERING AT 679°C
										$\langle \rangle$											
Posiz. Item Stellung Poste		Colata Heat Schmelze	ი%	Mn %	si %	Р.	s%	Ni %	cr %	Mo %	Cu %	۸ %	AI %	сш	т Ж	N %	Nb No % - Q	te - Remar uality Mana	Note - Remarks - Anmerkung - Notes: - Quality Management System supp	ng – Notes: tem supports	Note - Remarks - Anmerkung – Notes: - Quality Management System supports the requirements of
		Req. Min		1.00	0.15												A .9	Annex 1, 50 97/23/EC	ection 4.3 of	r Pressure Eq	upment Directive (F
	Rec	Req. Max	0.20	1.45	0.40	0:030	0.010	0.50	0.30	0.25	0.35	0.10	0.06	0.42	0.05		,	VISUAL/DIN	TENSIONAL CH	HECKING PERI	FORMED WITH
PS-035 & 027		839610	0.15	1,170	0,230	0,015	0,003	0,100	0,120	0,50	0,260	0,060	0,037	0,415	0,003		ŝ	ATISFACTOF ANSI B16.9	 ANSI B16.25 ANSI B16.25 	ACCORDING TO 5; PO Docs, No.	SATISFACTORY RESULT ACCORDING TO: ANSI BIG - ANSI BIG.25; POD Docs. No. 2013-3200-1M-0018 & Ansisted and another and a statistics of a statistic and a statistical and a stati
PS-039		839610	0.15	1,170	0,230	0,015	0,003	0,100	0,120	0,50	0,260	0,060	0,037	0,415	0,003		6		O %20 Davoide		PERFORMED WITH
PS-052 & 053		915841	0,140	1,260	0,220	0,012	0,002	060'0	0,100	0,70	0.160	0.040	0.030	0.409	0,003	0,006 0	0,014 S/	ATISFACTOF	Y RESULT		
																	3 RE	UIREMEN	UCTS ARE IN TS & ALL RELE	COMPLIANCE EVANTS DOCUN	3) THE PRODUCTS ARE IN COMPLIANCE WITH PO ORDER REQUIREMENTS & ALL RELEVANTS DOCUMENTS.
												n					4	MATERIAL	ACCORDING	TO NACE MR0	4) MATERIAL ACCORDING TO NACE MR0175/MR0103 ed.2003
27																	M	Mnfr Quality Assistant	ssistant		Data - Date
LEGENDA	LEGENDA / TRANSLATION: RC=CONCENTRIC REDUCER	RC=CONCEN	ITRIC RED	UCER	RE=E	RE=ECCENTRIC REDUCER	REDUCER	TEE=TEE		CURVA=ELBOW		FONDELLO=CAP)=CAP	CROCE=CROSS	SOSS	TUB0=PIPE		certificate is is: ignature.	ued by a compu	uterized system a	This certificate is issued by a computerized system and is valid without stamp and signature.

SAMPLE OF 3.1 CERTIFICATE

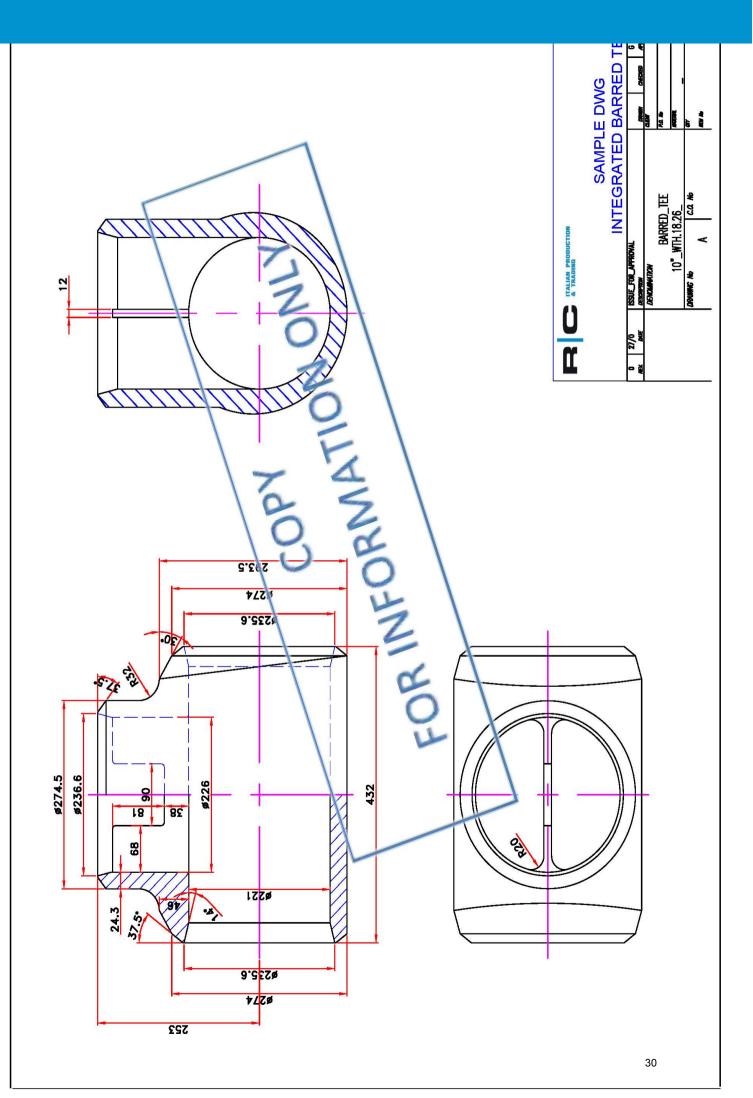
SAMPLE OF BARRED TEE DWG



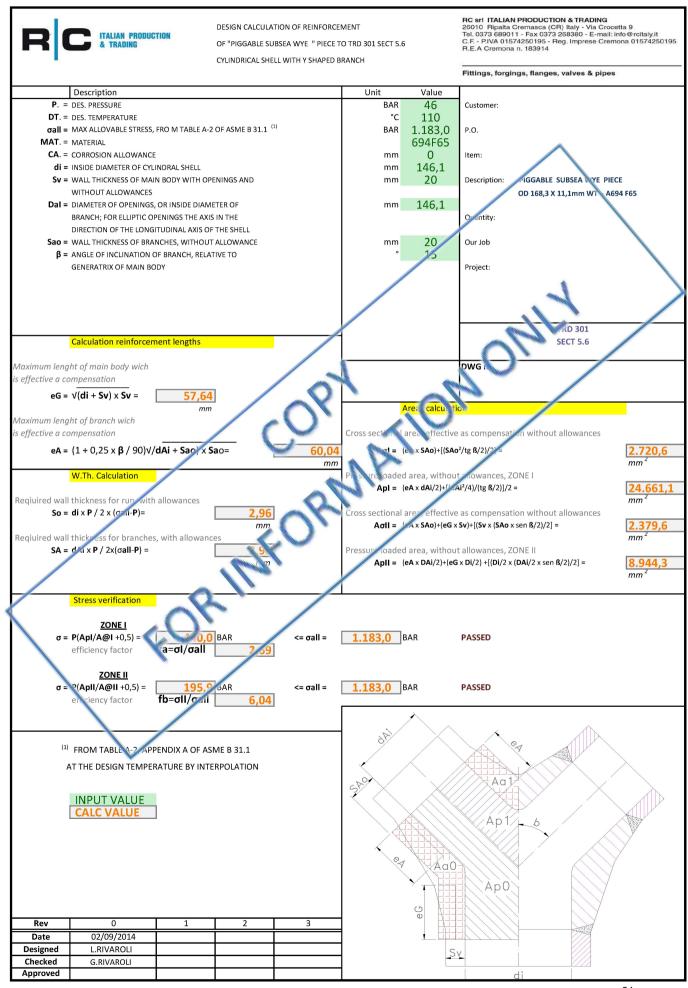
SAMPLE OF WYE PIECE DWG



SAMPLE OF INTEGRATED BARRED TEE



SAMPLE OF DESIGN CALCULATION



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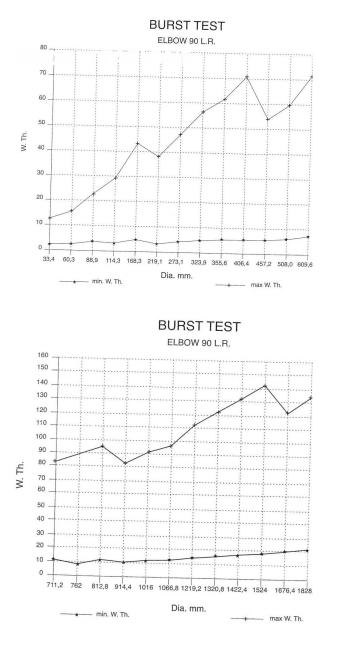
BURST TEST

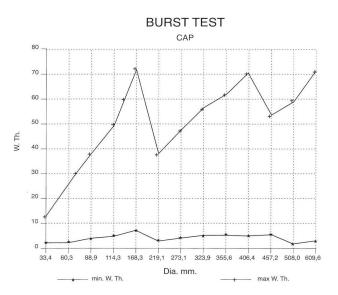


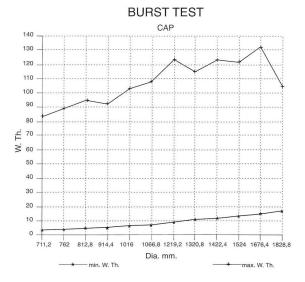




BW FITTINGS *Example of Qualification Range*









FLANGES



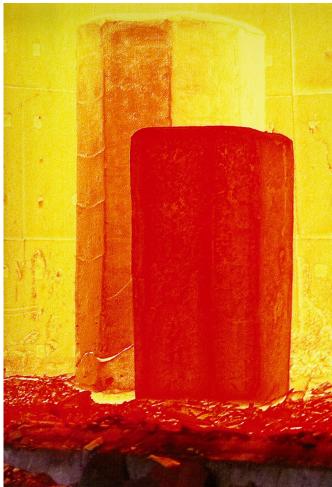






RAW MATERIAL







FORGING OPERATION



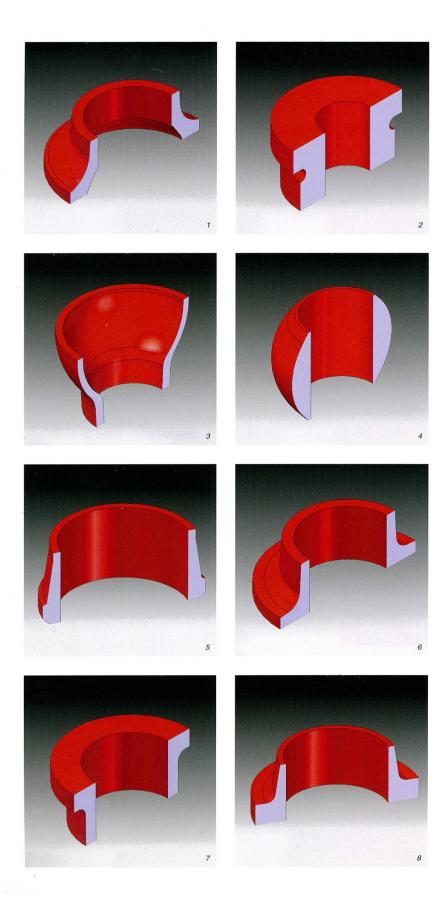








SPECIAL FORGING SHAPES





HEAT TREATMENT









PRE MACHINING





FINAL MACHINING







RC ITALIAN PRODUCTION & TRADING