



# INSPECTION CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (009721-A)

LOT 13258 & 13259, Jalan Haji Abd. Manan,  
Off Jalan Meru, 42200 Klang, Selangor, Malaysia.

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## WROUGHT CARBON STEEL BUTTWELDING FITTINGS

EN10204:2004 Type 3.1



QMS Certified to ISO 9001

Cert. No.: 038 0402926

PD 97/23/RC Annex 1 Class 4.3

Cert. No.: 0038/PED/NAU/0810070/1

Certificate No : PSI 62925

Date : 16-Dec-09

Purchaser : ALLIED FITTING CORP

Order No.	Invoice No.	Specification for Pipe	Specification for Fittings: Made from Seamless Pipe	Specification for Inspection											
112409PS-4	E 6154	ASTM A106 - 08 / API 5L - 07 PSL1 Gr. B & NACE MR0175 - 03	ASTM A234 - 07 / ASME SA 234 - 07 WPB	ASME B16.9 - 07											
Heat No.	Product & Size	Quantity (pcs)	Pipe Mill	Pipe Heat No.											
KD 205	18" 90 DEG LR STD ELBOW	27	PANGANG GROUP CHENGDU IRON & STEEL	0983255											
JN 304	20" 90 DGE LR STD ELBOW	24	PANGANG GROUP CHENGDU IRON & STEEL	0881645											
KE 502	24" 90 DEG LR STD ELBOW	27	TIANJIN PIPE CORPORATION	392124											
KB 805	18" 90 DEG SR STD ELBOW	44	YANTAI LUBAO STEEL PIPE	D02514											
K 802	20" 90 DEG LR XS ELBOW	5	PANGANG GROUP CHENGDU IRON & STEEL	0883489											
Visual Examination		Dimensional Inspection		Heat Treatment		Magnetic Particle Testing									
GOOD		GOOD		H		N/A									
GOOD		GOOD		H		N/A									
GOOD		GOOD		H		N/A									
GOOD		GOOD		H		N/A									
GOOD		GOOD		H		N/A									
Specification	Chemical Composition (%)											Tensile Test <sup>1</sup>			Hardness (HB)
	C x100	Si x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	Mo x100	Cu x100	V x1000	CE x100	YS (KSI / MPa)	TS (%)	E (%)	
Min	-	10	28	-	-	-	-	-	-	-	-	240	415	22	-
Max	30	-	106	50	58	40	40	15	40	80	50	-	655	-	197
Heat No.															
KD 205	17	22	54	33	9	1	3	0.4	1	7	28	373	476	34.0	109
JN 304	16	45	106	14	4	9	9	2	8	10	39	360	560	42.0	108
KE 502	21	23	56	13	4	5	3	2	13	0	33	295	490	33.0	100
KB 805	19	26	58	10	9	3	4	1	7	0	31	304	485	35.0	142
K 802	15	50	106	13	6	7	12	4	7	10	39	355	540	39.0	118

WE HEREBY CERTIFY THAT THE PRODUCT DESCRIBED HEREIN HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION AND PURCHASE ORDER; AND SATISFIED THE REQUIREMENTS.

TENSILE REQUIREMENT: CONFORMS TO ASTM A370 STANDARD, LONGITUDINAL DIRECTION, GAUGE LENGTH 2" (50mm)

NOTE:

N: Normalised at 910°C

Q: Heated to 910°C and quench in water.

T: Temper between 590°C - 690°C.

S: Stress relieved in temperature between 595°C - 690°C and cooled in still air.

H: Hot formed in temperature between 620°C - 980°C and cooled in still air.

YS: Yield Strength

TS: Tensile Strength

E: Elongation

PLEASANT VALVE HUAC Y CIA S. S.A. DE C.V.

CONTROL DE CALIDAD

FECHA 16 Ab. 2010

EGR

FIRMA E. RUIZ