Í	_	1								#	Month	Year	Last Rev:
										13 Contiém	11	2015 alidad/ Quality Mar	20/10/15
										Gestion	FO-INT-ING	-CDE001-REV01	lagement
	Integ					•							
	Ingenieria Integral					Comm	nercial Bio	d Evaluat	ion CBI	F			
	Material Code #/ Codigo del Material:											Fecha/ Date:	21/10/16
	Material Code #7 Codigo del Material.											Realizado por/ By:	TR
	Descripcion/ Description:			_	ACER	O DE SAL	A DE MAC	QUINAS					
	Disciplina/ Discipline:	HVAC	Type:				Materiale	es .					
	Aprobado TBE / Approved Technical Bid	Econocificati	on TDE:			,	/ES	NO AP	LICA	NO.	APLICA	NO AP	DI ICA
	Aprobado RFA / Approved		on TDE.				/ES	NO AP			APLICA	NO AP	
	Plazo de entrega/ Delivery	Date:				3	DIAS	3 DI/	AS	3 [DIAS	3 DI.	AS
	Lugar de entrega/ Locat	ion:				TOO	UMEN	TOCUM	MEN	FOB HO	OUSTON	TOCUI	MEN
						Ven	dor 1	Vendo	or 2	Ven	dor 3	Vend	or 4
					Vendor Name:	FERRETERIA	AINDUSTRIAL	556 Hughes s	upply Doral	Federal S	teel Supply		
Codigo B.O.M	Description/ Descripcion	Cant.	Und.	Monto Presupuestado	Condiciones de Pago/ Shippment Terms	30	days	CONTA	ADO	CON	ITADO	CONTA	ADO
	TUBERIA												
	Tuberia de acero al carbono SCH 40, diamentro= 24" y L=5,8mts	Unidad	27	B/.0.00		B/.859.51	B/.23,206.77	B/.2,645.34	B/.71,424.18	B/.2,400.00	B/.64,800.00		B/.0.00
	Tuberia de acero al carbono SCH 40, diamentro= 20" y L=5,8mts	Unidad	8	B/.0.00		B/.725.50	B/.5,804.00	B/.2,197.34	B/.17,578.72	B/.1,632.00	B/.13,056.00		B/.0.00
	Tuberia de acero al carbono SCH 40, diamentro= 12" y L=5,8mts	Unidad	12	B/.0.00		B/.385.24	B/.4,622.88	B/.1,121.34	B/.13,456.08	B/.643.00	B/.7,716.00		B/.0.00
	Tuberia de acero al carbono SCH 40, diamentro= 10" y L=5,8mts	Unidad	14	B/.0.00		B/.461.02	B/.6,454.28	B/.912.00	B/.12,768.00	B/.460.00	B/.6,440.00		B/.0.00
•			•	•	ITBMS	B/.2,	806.16	B/.8,06	5.89	B/.6,	440.84	B/.0.	.00
					Costo TOTAL/ TOTAL Cost :	B/.42	,894.09	B/.123,2	92.87	B/.98	,452.84	B/.0.	.00
					Moneda/ Currency:	Do	lares	Dolar	es	Dol	lares	Dolai	res
		1				-		.					·
	ANILLOS			D/ 0 00		D/ 0 00	D/ 0 00		2/0		B/0		D/ 0 00
	Anillo para soldar de acero al carbono (150 Psi), Diametro=3/4" Anillo para soldar de acero al carbono (150 Psi), Diametro=1"		UND	B/.0.00 B/.0.00	-	B/.0.00	B/.0.00 B/.0.00		B/.0.00 B/.0.00		B/.0.00		B/.0.00 B/.0.00
	Anillo de acero al Carbono para soldar (150 PSI), Diametro=1 Anillo de acero al Carbono para soldar (150 PSI) de Diametro=1/4"		UND	B/.0.00			B/.0.00		B/.0.00		B/.0.00		B/.0.00
	Annilo de acero al Carbono para soldar (150 F51) de Diametro-1/4	04	UND		ITBMS	В/	.0.00	B/.0.		B/.	0.00	B/.0.	
					Costo TOTAL/ TOTAL Cost :	В/	.0.00	B/.0.0	00	В/.	0.00	B/.0.	.00
					Moneda/ Currency:	Do	lares	Dolar	es	Dol	lares	Dolar	res
	NIPLES	1											
			LINE			B/.0.00	B/.0.00		B/.0.00		B/.0.00		B/.0.00
	Niple de acero al carbono (150 Psi), Dimensiones 1/4"x3" Niple de Acero (150 Psi) de 1/4"x4"		UND			27.0.00	B/.0.00		B/.0.00		B/.0.00		B/.0.00
	Milpie de Acero (150 PSI) de 1/4 X4] 30	UND		ITBMS	B/	.0.00	B/.0.		B/.	.0.00	B/.0.	
					Costo TOTAL/ TOTAL Cost :		.0.00	B/.0.			0.00	B/.0.	
					Moneda/ Currency:	Do	lares	Dolar	es	Dol	lares	Dolar	res

Codo de 45 Grados de Acero al Carbono SCH 40 (150 Psi), Diametro=12" Codo de 90 Grados de Acero al Carbono (150 Psi), Diametro=1/4" Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=24" 17 UND	B/.0.00	B/.0.00		B/.0.00		B/.0.00		
Codo de 90 Grados de Acero al Carbono (150 Psi), Diametro=1/4" 30 UND Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=24" 17 UND								B/.0
	1	B/.0.00		B/.0.00		B/.0.00		B/.
		B/.0.00	B/.1,799.58	B/.30,592.86	B/.436.00	B/.7,412.00		B/.
Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=20" 6 UND	B/.328.06	B/.1,968.36	B/.1,272.52	B/.7,635.10	B/.308.25	B/.1,849.50		B/.
Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=10" 12 UND	B/.38.84	B/.466.08	B/.238.50	B/.2,862.01	B/.53.15	B/.637.80		В/.
Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=12" 10 UND	B/.124.50	B/.1,245.00	B/.353.26	B/.3,532.60	B/.82.00	B/.820.00		B/
Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=4" 2 UND	B/.3.74	B/.7.48	B/.28.78	B/.57.55	B/.6.65	B/.13.30		B/
ITBMS		258.08	B/.3,12	7.61	B/.7	51.28	B/.0.	.00
Costo TOTAL TOTAL Cost	B/.3	,945.00	B/.47,8	07.73	B/.11,	483.88	B/.0.	.00
Moneda/ Currency:	Do	olares	Dolai	res .	Dol	lares	Dolar	res
REDUCCION								
Reduccion de Acero al Carbono SCH 40, Dimensiones 12"x6" 5 UND	B/.0.00	B/.0.00	B/.127.13	B/.635.65		B/.0.00		B/
Reduccion de Acero al Carbono, SCH 40, Dimensiones 10"x8" 5 UND		B/.0.00	B/.127.13	B/.635.65	B/.25.00	B/.125.00		B/
Reduccion de Acero al Carbono SCH 40, Dimensiones 12"x8" 5 UND	B/.42.88	B/.214.40	B/.180.00	B/.900.00	B/.35.50	B/.177.50		В/
Reduccion de Acero al Carbono SCH 40, Diametro=24"x20" 2 UND		B/.0.00	B/.877.33	B/.1,754.66	B/.183.00	B/.366.00		В/
ITBMS	B/.	.15.01	B/.274	1.82	B/.4	46.80	B/.0.0	.00
Costo TOTAL	B/	229.41	B/.4,20	10.78	B/.7	15.30	B/.0.	.00
TOTAL Cost Moneda/		olares	Dolar			lares	Dolar	
BRIDA								
Brida de Acero al Carbono SCH 40, Diametro=20" 20 UND	B/.112.05	B/.2,241.00	B/.374.55	B/.7,490.98	B/.151.20	B/.3,024.00		В/.
Brida de Acero al Carbono (150 Psi), Diametro=12" 99 UND	B/.44.24	B/.4,379.76	B/.126.93	B/.12,566.37	B/.57.10	B/.5,652.90		B/
Brida de Acero al Carbono (150 Psi), Diametro=10" 72 UND	B/.27.89	B/.2,008.08	B/.85.60	B/.6,163.13	B/.38.50	B/.2,772.00		B/
Brida de Acero al Carbono (150 Psi), Diametro=8" 60 UND	B/.16.61	B/.996.60	B/.37.19	B/.2,231.22	B/.22.35	B/.1,341.00		B/
Brida de Acero al Carbono (150 Psi), Diametro=6" 15 UND	B/.10.35	B/.155.25	B/.24.49	B/.367.40	B/.14.75	B/.221.25		B/
Brida de Acero al Carbono SCH 40, Diametro=4" 4 UND		B/.0.00		B/.0.00		B/.0.00		B/
Tapon de Acero al Carbono SCH 40, Diametro 24" 6 UND		B/.0.00		B/.0.00		B/.0.00		B/
ITBMS	B/	684.65	B/.2,01	7.34	B/.9	10.78	B/.0.	.00
Costo TOTAL TOTAL Cost	B/.10	0,465.34	B/.30,8	36.43	B/.13,	,921.93	B/.0.	.00
Moneda/ Currency:	Do	olares	Dolar	res	Dol	lares	Dolar	res
(can const.)	1							
ITBMS		,763.90	B/.13,4	85.65	B/.8,	149.70	B/.0.	.00
GRAN TOTAL DE ACERO SALA DE MAQUINAS COSTO TOTAL TOTAL COST TOTAL COST	B/.61	1,297.73	B/.219,6	23.45	B/.132	2,723.65	B/.0.	.00
Moneda/ Currency:	Do	olares	Dola	res	Dol	lares	Dolar	res
NOTA DE PROVEEDOR RESUMEN DE COMPRA POR PROVEEDOR	B/.57	,533.836			B/.8,4	156.210		-

RECOMENDACIÓN		



COTIZACION Nro. 200022197

Oficina Comercial y Almacén Ferretería Industrial S.A RUC: CALZADA LARGA, EL CHUNGAL

Telf. 3681800

Fax:

Emisión: 11/10/2016 Orden de Compra:

Pagina No 1 de 3

Vendedor: ALBIS SOLANO

Señores: 0005000786 INTEG PANAMA CORP Dirección: CALLE 50 CON CALLE 54 SOHOMALL

R.U.C.: 2230765-1-777977DV 25

Lugar de Entrega: CALLE 50 CON CALLE 54 SOH

Forma de Pago:

Observaciones: SALA DE MAQUINAS ATTE: THOMAS

P. CODIGO	DESCRIPCION	PESO	CANT	UN	PRECIO	TOTAL
		U.M.				NETO
1 3000001959	TUBO SIN COST #40 10 X 5,8/6M	350	24.000	UN	461,02	11.064,48
2 3000001960	TUBO SIN COST #40/STD 12 X 5,8M	428	27.000	UN	385,24	10.401,48
4 3000001928	TUBO NEGRO STD 20 X 5,8M	678	8.000	UN	725,50	5.804,00
5 3000001929	TUBO NEGRO STD 24 X 5,8/6M	819	30.000	UN	859,51	25.785,30
6 4000001261	FLANGES CIEGOS 150# 14	0	4.000	UN	91,30	365,20
7 4000001262	FLANGES CIEGOS 150# 12	0	2.000	UN	64,74	129,48
8 4000001310	FLANGE S/CUELLO 150 LBS 3	0	2.000	UN	5,34	10,68
9 4000001255	FLANGES CIEGOS 150LBS 3	0	5.000	UN	5,58	27,90
10_2000005316	CODOS P/S 90o STD 20	0	4.000	UN	328,06	1.312,24
11 2000005312	CODOS P/S 90o STD 14	0	2.000	UN	124,50	249,00
12 2000005310	CODOS P/S 90o SCH40 10	0	10.000	UN	38,84	388,40
13 2000005306	CODOS P/S 90o SCH 40 4	0	2.000	UN	3,74	7,48
14 2000005305	CODOS P/S 90o SCH 40 3	0	19.000	UN	2,38	45,22
15 2000005304	CODOS P/S 90o SCH 40 2 1/2	0	7.000	UN	2,08	14,56
16 2000005302	CODOS P/S 90o SCH 40 1 1/2	0	18.000	UN	0,65	11,70
17 2000006044	TEES NEGRA P/S STD 20	0	2.000	UN	257,51	515,02

Teléfono: 398-3483

Fax: 6780-0852

Condiciones de Venta

-Pregunte a su Ejecutivo de Ventas, por nuestras tarifas de acarreo.

Tiempo de entrega de 3 días, no estibamos material.

No aceptamos efectivo. Pagos depositados en Ctas Corrientes a nombre de Ferreteria Industrial S.A

en Banco General No. 03-01-01-001777-7 o Scotia Bank 850013414. Cheque certificado para montos arriba de US\$500.00.

Esta cotización tiene validez de 3 días.

No aceptamos devoluciones después de 8 días, ni reclamos sin factura original.

Tonelaje: 49.950,000

Observaciones de Posición:



COTIZACION Nro. 200022197

Oficina Comercial y Almacén Ferretería Industrial S.A RUC: CALZADA LARGA, EL CHUNGAL

Telf. 3681800

Fax:

Emisión: 11/10/2016 Orden de Compra: Pagina No 2 de 3

Vendedor: ALBIS SOLANO

Señores: 0005000786 INTEG PANAMA CORP Dirección: CALLE 50 CON CALLE 54 SOHOMALL

R.U.C.: 2230765-1-777977DV 25

Lugar de Entrega: CALLE 50 CON CALLE 54 SOH

Forma de Pago:

Observaciones: SALA DE MAQUINAS ATTE: THOMAS

P. CODIGO	DESCRIPCION	PESO	CANT	UN	PRECIO	TOTAL
		U.M.				NETO
18 2000006040	TEES P/S NEGRA STD 12	0	3.000	UN	137,57	412,71
19 2000006130	TEE RED P/S STD 12 X 10	0	7.000	UN	157,70	1.103,90
20 2000006034	TEE NEGRA P/S #40 3	0	15.000	UN	5,30	79,50
21 2000006033	TEE NEGRA P/S #40 2 1/2	0	3.000	UN	3,91	11,73
22 2000006100	TEE RED. P/S #40 2 1/2 X 1	0	1.000	UN	4,59	4,59
23 2000006032	TEE NEGRA P/S #40 2	0	4.000	UN	1,83	7,32
24 2000006031	TEES P/S NEGRA #40 1-1/2	0	2.000	UN	1,25	2,50
25 2000005763	REDUC COUP STD 12 X 10	0	13.000	UN	46,48	604,24
26 2000005761	REDUC COUP STD 12 X 8	0	12.000	UN	42,88	514,56
27 2000005758	REDUC COUP #40 10 X 6	0	2.000	UN	28,01	56,02
28 2000005744	REDUC COUP #40 4 X 1 1/2	0	2.000	UN	3,51	7,02
29 2000005742	REDUC COUP #40 3 X 2	0	20.000	UN	2,59	51,80
30 2000005731	REDUC COUP #40 1 1/2 X 1	0	8.000	UN	0,66	5,28
31 4000001320	FLANGE S/CUELLO 150 LBS 20	0	6.000	UN	112,05	672,30
32 4000001316	FLANGE S/CUELLO 150 LBS 12	0	116.000	UN	44,24	5.131,84
33 4000001315	FLANGE S/CUELLO 150 LBS 10	0	167.000	UN	27,89	4.657,63

Teléfono: 398-3483

Fax: 6780-0852

Condiciones de Venta

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Tiempo de entrega de 3 días, no estibamos material.

No aceptamos efectivo. Pagos depositados en Ctas Corrientes a nombre de Ferreteria Industrial S.A

en Banco General No. 03-01-01-001777-7 o Scotia Bank 850013414. Cheque certificado para montos arriba de US\$500.00.

Esta cotización tiene validez de 3 días.

No aceptamos devoluciones después de 8 días, ni reclamos sin factura original.

Tonelaje: 49.950,000

Observaciones de Posición:



COTIZACION Nro. 200022197

Oficina Comercial y Almacén Ferretería Industrial S.A RUC: CALZADA LARGA, EL CHUNGAL

Telf. 3681800

Fax:

Señores: 0005000786 INTEG PANAMA CORP Dirección: CALLE 50 CON CALLE 54 SOHOMALL

R.U.C.: 2230765-1-777977DV 25

Forma de Pago:

Lugar de Entrega: CALLE 50 CON CALLE 54 SOH

Observaciones: SALA DE MAQUINAS ATTE: THOMAS Emisión: 11/10/2016 Orden de Compra: Pagina No 3 de 3

Vendedor: ALBIS SOLANO

P. CODIGO	DESCRIPCION	PESO	CANT	UN	PRECIO	TOTAL
		U.M.				NETO
34_4000001314	FLANGE S/CUELLO 150 LBS 8	0	74.000	UN	16,61	1.229,14
35_4000001313	FLANGE S/CUELLO 150 LBS 6	0	2.000	UN	10,35	20,70
				Sub-	-Total	70704.92
				ITBN	MS	4949.34
				Tota	l	75.654,26

Teléfono: 398-3483

Fax: 6780-0852

Condiciones de Venta

-Pregunte a su Ejecutivo de Ventas, por nuestras tarifas de acarreo.

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No aceptamos efectivo. Pagos depositados en Ctas Corrientes a nombre de Ferreteria Industrial S.A

en Banco General No. 03-01-01-001777-7 o Scotia Bank 850013414. Cheque certificado para montos arriba de US\$500.00.

Esta cotización tiene validez de 3 días.

No aceptamos devoluciones después de 8 días, ni reclamos sin factura original.

Tonelaje: 49.950,000

Observaciones de Posición:



Federal Steel Supply, Inc.

747 Goddard Avenue • PO Box 840 Chesterfield, MO 63006-0840 (636) 537-2393 • (800) 325-1584 • Fax (636) 537-8795 www.fedsteel.com

Federal Steel Quote #	R20493 Page: 1
Salesman #	BOB KEANEY
Warehouse	2
Prosp/Cust #	142917
Quote Date	10/18/16

Attention:

Your Inquiry #: Freight Info: FOB HOUSTON

Company:

Ingenieria Integral Avenida Balboa, Balboa Square 4th floor Office 412 Panama City

507

Customer PO #:

Accepted By:

Quotation

Ln#	Description & Piece Length	Qty		Price	υм	Pounds	Item Total
1	10.750" X .365 SA106-B SMLS SRL	24	PC	23.0000		19430	11,040.00
2	12.750" X .375 SA106-B SMLS SRL	20	PC	32.1500		19824	12,860.01
3	14.000" X .375 SA106-B SMLS SRL	2	PC	47.5000		2183	1,900.00
4	20.000" X .375 SA106-B SMLS SRL	8	PC	81.6000		12576	13,056.01
5	24.000" X .375 SA106-B SMLS SRL	40	PC	120.0000	FT	75696	96,000.04
6	24" 150# SA105 R.F. BLIND	8	EΑ	422.6500	EΑ	3440	3,381.20
7	14" 150# SA105 R.F. BLIND	4	EΑ	135.7000	EΑ	560	542.80
8	12" 150# SA105 R.F. BLIND	2	EΑ	82.0000	EΑ	220	164.00
9	10" 150# SA105 R.F. BLIND	4	EΑ	54.4000	EΑ	280	217.60
10	4" 150# SA105 R.F. BLIND	2	EΑ	11.3500	EΑ	34	22.70
11	3" 150# SA105 R.F. BLIND	5	EΑ	8.0500	EΑ	45	40.25
12	24" STD SA234-WPB LR 90	17	EΑ	436.0000	EΑ	7582	7,412.00
13	20" SCH STD SA234-WPB LR 90	4	EΑ	308.2500	EΑ	1236	1,233.00
14	14" STD SA234-WPB LR 90	2	EΑ	117.6000	EΑ	300	235.20
15	12" STD SA234-WPB LR 90	55	EΑ	82.0000	EΑ	6820	4,510.00
16	10" STD SA234-WPB LR 90	39	EΑ	53.1500	EΑ	3315	2,072.85
17	4" STD SA234-WPB LR 90	2	EΑ	6.6500	EΑ	19	13.30
18	3" STD SA234-WPB LR 90	19	EΑ	3.4500	EΑ	99	65.55
19	2-1/2" STD SA234-WPB LR 90	7	EΑ	2.8500	EΑ	23	19.95
20	2" STD SA234-WPB LR 90	8	EΑ	2.4000	EΑ	14	19.20
21	1-1/2" STD A234-WPB LR 90	18	EΑ	1.7500	EΑ	49	31.50
22	24" STD SA234-WPB TEE	10	EΑ	663.0000	EΑ	7650	6,630.00
23	24" X 12" STD SA234-WPB TEE	32	EΑ	929.2000	EΑ	16192	29,734.40
24	24" X 10" STD SA234-WPB TEE	18	EΑ	994.0000	EΑ	7632	17,892.00
25	20" STD(.375) SA234-WPB TEE	2	EΑ	625.0000	EΑ	834	1,250.00

This quotation and sales resulting from it, are made subject to FSSI Standard Terms and Conditions of Sale. Acceptance of our offer of goods, constitutes express acceptance of the associated terms & conditions. Prices in U.S. \$

Terms: Net 30 days, subject to final approval. All items are offered subject to prior sale. All prices subject to final confirmation.

Weight Total	Taxable Total:	
	Sales Tax:	
	Total Amount:	



Federal Steel Supply, Inc.

747 Goddard Avenue • PO Box 840 Chesterfield, MO 63006-0840 (636) 537-2393 • (800) 325-1584 • Fax (636) 537-8795 www.fedsteel.com

Federal Steel Quote #	R20493 Page: 2
Salesman #	BOB KEANEY
Warehouse	2
Prosp/Cust #	142917
Quote Date	10/18/16

Attention:

Your Inquiry #: Freight Info: FOB HOUSTON

Company:

Ingenieria Integral Avenida Balboa, Balboa Square 4th floor Office 412

Panama City

507

Customer PO #:

Accepted By:

Quotation

Ln#	Description & Piece Length	Q	ty	Price	UM	Pounds	Item Total
26	12" STD SA234-WPB TEE	3	EA	111.0000	EΑ	441	333.00
27	12" X 10" STD SA234-WPB TEE	7	EΑ	128.0000	EΑ	1050	896.00
28	3" STD SA234-WPB TEE	15	EΑ	9.6000	EΑ	127	144.00
29	2-1/2" STD SA234-WPB TEE	3	EΑ	9.6000	EΑ	18	28.80
30	2-1/2" X 1" STD A234-WPB TEE	1	EΑ	10.2500	EΑ	7	10.25
31	2" STD SA234-WPB TEE	4	EΑ	5.6000	EΑ	17	22.40
32	1-1/2" STD A234-WPB TEE	2	EΑ	5.5000	EΑ	4	11.00
33	24" X 20" STD A234-WPB C.R.	2	EA	183.0000	EΑ	420	366.00
34	24" X 14" STD A234-WPB C.R.	2	EA	382.0000	EΑ	650	764.00
35	12" X 10" STD SA234-WPB C.R.	13	EΑ	31.0000	EΑ	364	403.00
36	12" X 8" STD SA234-WPB C.R.	12	EΑ	35.5000	EΑ	432	426.00
37	10" X 8" STD SA234-WPB C.R.	6	EA	25.0000	EΑ	240	150.00
38	10" X 6" STD SA234-WPB C.R.	2	EA	23.5000	EΑ	32	47.00
39	4" X 1-1/2" STD A234-WPB CR	2	EA	10.3000	EΑ	7	20.60
40	3" X 2" STD SA234-WPB CONC RED	20	EA	3.9500	EΑ	44	79.00
41	1-1/2" X 1" STD A234-WPB CR	8	EA	5.5000	EΑ	4	44.00
42	20" 150# SA105 R.F.S.O.	6	EA	151.2000	EΑ	990	907.20
43	14" 150# SA105 R.F.S.O.	40	EA	57.1000	EΑ	3400	2,284.00
44	12" 150# SA105 R.F.S.O.	116	EΑ	57.1000	EΑ	7424	6,623.60
45	10" 150# SA105 R.F.S.O.	167	EΑ	38.5000	EΑ	6680	6,429.50
46	8" 150# SA105 R.F.S.O.	74	EΑ	22.3500	EΑ	1850	1,653.90
47	6" 150# SA105 R.F.S.O.	2	EA	14.7500	EΑ	38	29.50

THANKS, BOB KEANEY

This quotation and sales resulting from it, are made subject to FSSI Standard Terms and Conditions of Sale. Acceptance of our offer of goods, constitutes express acceptance of the associated terms & conditions. Prices in U.S. \$

Terms: Net 30 days, subject to final approval. All items are offered subject to prior sale. All prices subject to final confirmation.

Weight Total	Taxable Total: Sales Tax:	
	Total Amount:	



Federal Steel Supply, Inc.

747 Goddard Avenue • PO Box 840 Chesterfield, MO 63006-0840 (636) 537-2393 • (800) 325-1584 • Fax (636) 537-8795 www.fedsteel.com

Federal Steel Quote #	R20493 Page: 3
Salesman #	BOB KEANEY
Warehouse	2
Prosp/Cust #	142917
Quote Date	10/18/16

Attention:

Your Inquiry #: Freight Info: FOB HOUSTON

Company:

Ingenieria Integral Avenida Balboa, Balboa Square 4th floor Office 412

Panama City

507

Customer PO #:

Accepted By:

Quotation

Ln#	Description & Piece Length	Qty	Pric	ce	UM	Poun	ds	Item Total
	RKEANEY@FEDSTEEL.COM							
]	FEDERAL STEEL SUPPLY							
		18/-:						

This quotation and sales resulting from it, are made subject to FSSI Standard Terms and Conditions of Sale. Acceptance of our offer of goods, constitutes express acceptance of the associated terms & conditions. Prices in U.S. \$

Terms: Net 30 days, subject to final approval. All items are offered subject to prior sale. All prices subject to final confirmation.

Weight Total	Taxable Total:	
210,292	Sales Tax:	
	Total Amount:	232,016.31

Quotation

556 HUGHES SUPPLY DORAL 8034 NW 14 STREET DORAL FL 33126 305-477-3045 Fax 305-477-4351 QUOTE DATE QUOTE NUMBER

10/17/16 S148703904

QUOTED BY: PAGE NO.
556 HUGHES SUPPLY DORAL
8034 NW 14 STREET
DORAL FL 33126
305-477-3045 Fax 305-477-4351

Printed: 16:06:34 17 OCT 2016

QUOTE TO: 1013578 Cash Sale Miami 10810 NW 92nd st MIAMI, FL 33178 SHIP TO :1013578 Cash Sale Miami 10810 NW 92nd st MIAMI, FL 33178

305-477-3045

ILAGROS		INTEGCA			House Sales		
WRI	TER	SHIP VIA	TERMS	EXPIRATION DATE	FREIGHT ALLOWE		
red Feri	rer	C	ASH	12/01/16	No		
QUOTE QTY	OUR PART#	DESCRIPTION		Net Pro	Ext Pro		
		ITEM ARE QUOTING IN S .375 NOT SCH 40 ALL PIPE ARE APPROX 2					
		XXXXXXXXXXXXXXXXXXX					
504ft	1262126	PIPE 10 BLK A106B S40 DOM	2007/10 (1775/700) (1776 F) (2007/10 (1776) (1776) (1776)	45.600/ft	22982.4		
567ft	1260086	PIPE 12 BLK A106B S40 D	SEAMLESS PE	56.067/ft	31789.8		
42ft	1807672	PIPE 14" BLK A106B ST SEAMLESS PE DOM	D	67.187/FT	2821.8		
168ft	1807683	PIPE 20 BLK A106B STD SEAMLESS PE DOM		109.867/ft	18457.6		
840ft	2926659	PIPE 24 STD A106 SMLS .375 WALL	BLK PIPE	132.267/ft	111104.0		
8ea	1940797	DOMWELFI 24 150# RF B	LIND FLG A105	1047.000/ea	8376.0		
		DOMWELFI 14 150# RF B		301.599/ea	1206.3		
		DOMWELFI 12 150# RF B		182.121/ea	364.2		
		DOMWELFI 10 150# RF B		120.921/ea	483.		
2ea	1940722	DOMWELFI 4 150# RF BL	D FLG A105	18.840/ea	37.		
5ea	1940715	DOMWELFI 3 150# RF BL	D FLG A105	17.932/ea	89.		
17ea	1936854	DOMWELFI 24 STD LR 90	WELD ELL A234	1799.581/ea	30592.		
4ea	1936847	DOMWELFI 20 STD LR 90	WELD ELL A234	1272.516/ea	5090.		
2ea	1936822	DOMWELFI 14 STD LR 90	WELD ELL A234	509.695/ea	1019.		
		DOMWELFI 12 STD LR 90 A234		353.261/ea	19429.		
39ea	1936807	DOMWELFI 10 STD LR 90 A234	WELD ELL	238.501/ea	9301.		
2ea	1936785	DOMWELFI 4 STD LR 90	WELD ELL A234	28.775/ea	57.		
19ea	1936778	DOMWELFI 3 STD LR 90	WELD ELL A234	17.463/ea	331.		
7ea	1936771	DOMWELFI 2-1/2 STD LR A234	90 WELD ELL	14.305/ea	100.		
** Cont:	inued on	Next Page ***					

Quotation

556 HUGHES SUPPLY DORAL 8034 NW 14 STREET DORAL FL 33126 305-477-3045 Fax 305-477-4351 QUOTE DATE QUOTE NUMBER

10/17/16 S148703904

QUOTED BY: PAGE NO.
556 HUGHES SUPPLY DORAL
8034 NW 14 STREET
DORAL FL 33126
305-477-3045 Fax 305-477-4351

Printed: 16:06:34 17 OCT 2016

QUOTE TO: 1013578 Cash Sale Miami 10810 NW 92nd st MIAMI, FL 33178 SHIP TO: 1013578

Cash Sale Miami
10810 NW 92nd st
MIAMI, FL 33178

305-477-3045

QUOTE) FOR	CUSTOMER PURCHASE ORDER NUMBER	CUSTOMER PURCHASE ORDER NUMBER CUSTOMER RELEASE NUMBER					
MILAGROS		INTEGCA			House Sal			
WRI	TER	SHIP VIA	TERMS		EXPIRATION DATE	FREIGHT ALLOWED		
Fred Ferr	ror		CASH		12/01/16	No		
QUOTE QTY	OUR PART#	DESCRIPTIO		Ni	et Pro	Ext Pro		
	1936763	DOMWELFI 2 STD LR 90	WELD ELL A234		1.807/ea	94.4		
18ea	1936754	DOMWELFI 1-1/2 STD	LR 90 WELD ELL		8.445/ea	152.02		
1004	1330,31	A234			7.0			
10ea	3754224	DOMWELFI 24X14 DOM S	STD	352	7.813/ea	35278.1		
2000		TEE						
32ea	3754225	DOMWELFI 24X12 DOM :	STD	352	7.813/ea	112890.0		
	MARLY DESIGNATION	TEE						
18ea	3688013	DOMWELFI 24X10 STD	REDUCIND WELD	352	7.813/ea	63500.6		
		TEE A234			7-1 POSSESSALES - 17-1			
2ea	2924443	DOMWELFI 20 STD WELL	D TEE	319	5.347/ea	6390.6		
	o construction and a section and	A234						
		REDUCER TEE IN 20"						
		ARE NOT MADE BELOW						
		8" OFFER WELL O LET			/	65 1		
2ea	1254436	ANV 20-12X4 STD BW	UNIVERSAL	3	2.557/ea	65.1		
0.83=0.54		ANVILET 0766259097			/	04.1		
4ea	1552008	ANV 36-12X21/2 STD	BW UNIVERSAL	2	3.540/ea	94.1		
		ANVILET 0766258990		_		20.2		
2ea	1332355	ANV 36-4X11/2 STD B	/W UNIVERSAL	1	0.193/ea	20.3		
		ANVILET 0766258859			5 555/	1515 3		
3ea	1937320	DOMWELFI 12 STD WEL	D TEE A234		5.777/ea	1517.3		
7ea	1937592	DOMWELFI 12 X 10 ST	D WELD TEE A234		1.811/ea	4562.6 656.1		
15ea	1937274	DOMWELFI 3 STD WELD	TEE A234		3.743/ea	117.7		
3ea	1937267	DOMWELFI 2-1/2 STD	WELD TEE A234		9.249/ea	52.2		
1ea	3734538	DOMWELFI 2-1/2X1 ST	D CS WELD TEE	5	2.227/ea	52.2		
		DOM	" CAT INTITION OF		4.351/ea	4.3		
1ea	1549824	ANV 36-3/4X1/2 3000	# S/W UNIVERSAL		4.351/ea	7.3		
		ANVILET 0766260053	EEE 3034	,	8.443/ea	113.7		
4ea	1937261	DOMWELFI 2 STD WELD	TEE AZ34		18.443/ea 17.805/ea	55.6		
2ea	1937256	DOMWELFI 1-1/2 STD	WELD TEE A234		7.333/ea	1754.6		
		DOMWELFI 24X20 STD	RM COINC KED DOM	0 /	1.333/Ea	1/34.0		
*** Cont	inued on	Next Page ***						

Quotation

556 HUGHES SUPPLY DORAL 8034 NW 14 STREET DORAL FL 33126 305-477-3045 Fax 305-477-4351 QUOTE DATE QUOTE NUMBER

10/17/16 S148703904

QUOTED BY: PAGE NO.

556 HUGHES SUPPLY DORAL
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DORAL FL 33126
305-477-3045 FAX 305-477-4351

Printed: 16:06:34 17 OCT 2016

QUOTE TO: 1013578 Cash Sale Miami 10810 NW 92nd st MIAMI, FL 33178 SHIP TO:1013578

Cash Sale Miami
10810 NW 92nd st
MIAMI, FL 33178

305-477-3045

MILAGROS		INTEGCA		House Sa	les	
WRI	TER	SHIP VIA	TERMS	EXPIRATION DATE	FREIGHT ALLOWED	
Fred Feri			ASH	12/01/16		
QUOTE QTY	OUR PART#	DESCRIPTION		Net Pro	Ext Pro	
2ea	3754233	DOMWELFI 24X14 STD CC DOM REDUCER	NC	1837.867/ea	3675.7	
13ea	1937958	DOMWELFI 12 X 10 STD A234	CONC WELD RED	157.141/ea	2042.8	
12ea	1937950	DOMWELFI 12 X 8 STD C	ONC WELD RED	180.733/ea	2168.8	
6ea	1937935	DOMWELFI 10 X 8 STD C	CONC WELD RED	127.133/ea	762.8	
2ea	1937928	DOMWELFI 10 X 6 STD C	CONC WELD RED	119.345/ea	238.6	
2ea	1937823		D CONC WELD	52.459/ea	104.9	
20ea	1937804	DOMWELFI 3 X 2 STD CC A234	NC WELD RED	19.931/ea	398.6	
8ea	1937719	DOMWELFI 1-1/2 X 1 ST RED A234	D CONC WELD	27.923/ea 2		
		DOMWELFI 20 150# RF S		374.549/ea 168.652/ea	2247.3 6746.0	
		DOMWELFI 14 150# RF S		126.933/ea	14724.2	
116ea	1940375	DOMWELFI 12 150# RF S	O FLG A105	85.599/ea	14294.9	
167ea	1940368	DOMWELFI 10 150# RF S	O FLG ALUS	37.187/ea	2751.8	
		DOMWELFI 8 150# RF SC DOMWELFI 6 150# RF SC		24.493/ea	48.9	
2ea	1940352	DELIVERY 3-5 WKS APPR		24.495/Ca	40.5	
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NASS VARANCALINA			
			S NOT INCLUDED			
inge at any time.	. We are not responded and specific	the prices in effect at the time of quotat consible for inaccurate quantity description fications for accuracy. Special order mater not within our control.	ns. Quantities should	Subtotal	541385.3	
				Bid Total	541385.3	

SPECIFICATION	KINDS OF PERMITTED	HOT-DIP GALVANIZING	TENSILE REQUIREMENTS
ASTM A-53 Sizes 1/a" - 26" Std, E.S. and XX USA Schedules 10 through 160 SCOPE Covers BLACK and hot-dipped GAL-VANIZED WELDED and SEAMLESS nominal wall pipe suitable for welding and for coiling, bending, flanging and other forming operations. Buttweld pipe (Type F) is not intended for flanging (roll back operation to form flange using pipe wall). Order should specify when pipe is required for close coiling, (Grade A usually specified for close coiling or cold bending.) TYPES AND GRADES Type F - furnace-buttwelded, continuous welded Type E - electric-resistance welded, Grades A and B Type S - seamless, Grades A and B	Open hearth Electric furnace Basic oxygen	Sets standards for zinc-coated (galvanized) pipe inside and outside by the hot-dip process. Weight of zinc coating shall be not less than 1.8 oz. per square foot of surface (inside and outside) coated as determined from the average result of two specimens and not less than 1.6 oz. per square foot for either of the two specimens. A single stripping operation is prescribed for determining weight of zinc coating. When galvanized pipe is bent or otherwise fabricated to a degree which causes zinc coating to stretch or compress beyond the limit of elasticity, some flaking of the coating may occur.	Tensile Strength Point Min., psi Min
ASTM A-106 Sizes %" - 26" Std, E.S. and XX USA Schedules 10 through 160 SCOPE Covers SEAMLESS nominal (average) wall pipe (welded not permitted) for high-temperature service, suitable for bending, flanging and similar forming operations. Sizes 1½" and under may be either hot finished or cold drawn. Sizes 2" and larger shall be hot finished unless otherwise specified. Cold drawn pipe must be heat treated after final cold draw pass.	Killed open hearth Electric furnace Basic oxygen	Not applicable to A-106 pipe.	Tensile Strength Point Min., psi Min., psi Min., psi Grade A 48,000 30,000 Grade B 60,000 35,000 Grade C 70,000 40,000
API 5-L Sizes 1/4" - 44" Std, E.S. and XX GCOPE Covers WELDED and SEAMLESS LINE ipe suitable for use in conveying gas, rater and oil in both the oil and natural as industries.	SEAWLESS AND Grade A-25 C Grade A-25 C Grade B SUBMERGED-A Grade A Grade B BUTTWELD Grade A-25 C Grade A-25 C	RC WELD X X X X X X X X X X X X X X X X X X	Tensile Strength Min., psi SEAMLESS ELECTRIC WELDED Grade A-25 45,000 25,000 SEAMLESS ELECTRIC WELDED or SUBMERGED-ARC WELDED Grade A 48,000 30,000 Grade B 60,000 35,000

ven with all the advances in technology today, the wholly welded piping system has for decades remained the best choice for use in high pressure and high temperature application. Many piping jobs in schools, industrial plants, refineries and factories have benefited from the inherent advantages of a completely welded system. It becomes a closed container joining pipes, valves, fittings, and flanges. A welded joint actually becomes part of the pipe, minimizing leak potential. This provides greater margins of safety, especially under conditions of high internal pressures. Additionally, welding fittings form a continuous metal structure with the pipe, adding forged-in strength to any piping system. Furthermore, smooth forged fittings simplify insulation and take up less space.

ASTM A 234



Scope

This standard covers wrought carbon steel fittings of seamless and welded construction which are manufactured to the dimensional specifications of ASME B16.9 and B16.28. These fittings are primarily for use in pressure piping and in pressure vessel fabrication for service at moderate and elevated temperatures.

Materials

The starting material for fittings shall consist of killed steel, forgings, bars, plates, seamless or fusion-welded tubular products with filler metal added and shall conform to the chemical requirements of ASTM A 234. Unless otherwise specified, carbon steel plates may be either coarse grain or fine grain practice.

Manufacture

Forging or shaping operations are performed by hammering, pressing, piercing, extruding, upsetting, rolling, bending, machining, or by a combination of two or more of these operations. The forming process shall be applied so that it will not produce injurious imperfections in the fittings.

Heat Treatment

Hot-formed WPB fittings, upon which the final forming operation is completed at a temperature above 1150°F and below 1800°F, need not be heat treated. Cold-Formed WPB fittings, upon which the final forming operation is completed at a temperature below 1150°F, shall be normalized, or shall be stress relieved at 1100°F to 1275°F.

Fitting Summary Data Sheet

Chemical requirements (in %):

Carbon Manganese Phosphorus (max) Sulfur (max)

.30 max .29-1.06 .050 .058

Silicon Chromium Molybdenum Nickel Copper .10 min .40 max .15 max .40 max .40 max

Vanadium Columbium
.08 max .02 max

Mechanical requirements:

Tensile Strength 60,000-85,000 psi Yield Strength (min) 35,000 psi Elongation - Longitudinal: 22% - Transverse: 14%

Dimensions

Butt-welding fittings and butt-welding short radius elbows and returns purchased in accordance with this specification shall conform to the dimensions and tolerances given in the latest revision of ANSI B16.9 and B16.28, respectively.

Certification

When requested by the purchaser, the manufacturer shall provide a certificate of compliance to this specification. If requested to provide test reports, the manufacturer shall also provide the following where applicable:

- * Chemical analysis results. When the amount of an element is less than .02%, the analysis for that element is reported as "<0.02%."
- * Tensile property results, report the yield strength and ultimate strength in ksi [or MPa] and elongation in percent,
- * Hardness acceptable in accordance with Section 10 of ASTM A-234,
- * Seamless or Welded,
- * Type of Heat Treatment, if any,
- * Starting material, specifically pipe, plate, etc.,
- * Statement regarding radiographic or ultrasonic examination.
- * Any supplemental testing required by the purchase order.

Product Marking

All fittings shall have the prescribed information stamped or otherwise suitable marked on each fitting in accordance with ASTM A 234/MSS SP-25. A Weldbend fitting is marked as follows: Weldbend's Name, Nominal Pipe Size, Pipe Wall Thickness Designation, Material Grade (WPB/WPC) and Heat Identification Number.

Note: All information contained in this document, and for a complete description of all requirements, refer to ASTM A 105. Sheets are subject to change without notice.

ven with all the advances in technology today, the wholly welded piping system has for decades remained the best choice for use in high pressure and high temperature application. Many piping jobs in schools, industrial plants, refineries, and factories have benefited from the inherent advantages of a completely welded system. It becomes a closed container joining pipes, valves, fittings, and flanges. A welded joint actually becomes part of the pipe, minimizing leak potential. This provides greater margins of safety, especially under conditions of high internal pressures. Additionally, welding fittings form a continuous metal structure with the pipe, adding forged-in strength to any piping system. Furthermore, smooth forged flanges simplify insulation and take up less space.

ASTM A 105



Scope

This standard covers forged carbon steel piping components for ambient- and higher-temperature service in pressure systems. Flanges are ordered either to dimensions specified by the purchaser or to dimensional specifications such as ASME 16.5 and API 6A. Forgings made to ASTM A 105 are normally limited to a maximum weight of 10,000 lb.

Materials

Weldbend flanges are made by hammering, pressing, rolling and/or machining cast or forged bars, billets or slabs. These adhere to the extent described in the following sections.

Manufacture

ASTM A 105 covers the requirements for forged steel components as finished products only.

The requirements for raw materials are covered by the standards specified in Section 2; Referenced Documents of ASTM A 105.

Heat Treatment

Heat treatment is not a mandatory requirement of this specification except for the following piping components:

- * Flanges above Class 300,
- * Flanges of special design where the design pressure at the design temperature exceeds the pressure-temperature ratings of Class 300, Group 1.1,
- * Flanges of special design where the design pressure or design temperature is not known.

Heat treatment, when required by the above, shall be annealing, normalizing, normalizing and tempering, or quenching and tempering in accordance with ASTM A 961.

Flange Summary Data Sheet

Chemical requirements (in %): Carbon Manganese Phosphorus (max) Sulfur (max) .35 max .60-1.05

Silicon .10-.35 Copper <u>Chromium</u> $40 \, \text{max}$ $.30 \max$

Molybdenum Vanadium Columbium .12 max $.08 \, \text{max}$ $.02 \, \text{max}$

Mechanical requirements:

Tensile Strength (min) 70,000 psi Yield Strength (min) 36,000 psi Basic minimum elongation 30%

for walls 5/16 in. and over

in thickness, strip tests.

Reduction of area (min) 30% Hardness, HB (max)

187

-

Dimensions

Weldbend flanges are manufactured in accordance with ASME B 16.5 (24" NPS and smaller) and ASME B 16.47 (26" - 60" NPS).

Certification

For forgings made to specified dimensions agreed upon by the purchaser, and for forgings made to dimensional standards, the application of identification marks, as required by ASTM A 961, shall be the certification that the forgings have been furnished in accordance with the requirements of this standard. The specification designation included on test reports shall include the year of issue and revision letter, if any.

Test Reports: When test reports are required, Weldbend will also provide the following, if applicable:

*Type of heat treatment,

*Tensile property results, i.e., yield strength and ultimate strength in ksi, elongation and reduction in area, in percent,

- *Chemical analysis results,
- *Hardness results, and,
- *Any supplementary testing required by the purchase order.

Product Marking

All flanges shall have the prescribed information stamped or otherwise suitable marked on each flange in accordance with the Standard/MSS SP-25. A Weldbend flange is marked as follows:

Weldbend's Name, Nominal Pipe Size, A105/SA105, Bore Designation, Heat Identification Number and manufacture date.

Note: All information contained in this document, and for a complete description of all requiremeats, refer to ASTM A 105. Sheets are subject to change without notice.

Forged Steel Anvilets

Anvil **Anvilets** provide a strong branch pipe connection, considerably stronger than a welded pipe-to-pipe connection. Consequently, with good welding procedures, Anvil **Anvilets** offer greater resistance to distortion and bursting.

Anvil **Anvilets** readily and economically permit the adding of branch connectors to existing piping installations, eliminating the relatively higher cost of cutting or disassembly and reassembly required for the installation of tees.

Anvil Anvilets of the same outlet size as a header or run pipe size (i.e. "Full Size" Anvilets) are so proportioned that the (ellipticallyshaped) hole in the header pipe has the minimum weakening or distortion effect, and yet provides good fluid flow characteristics.

Specifications

Chemical and physical properties are rigidly controlled to ensure consistently high quality. Physical and chemical test reports are available on request. Traceability of individual Anvilets can be established through the heat code of each fitting.

Anvil **Anvilets** meet the requirements of MSS standard SP-97. They are forged from steel which complies with ASTM A105.

Threaded Anvilets - conform with ASME B1.20.1.

Socket-Weld Anvilets - dimensions conform with ASME B16.11.

Buttweld Anvilets - ends conform with ASME B16.25.

Reinforcement Requirements

ASME B31.1 Power Piping Code ASME B31.3 Refinery Code

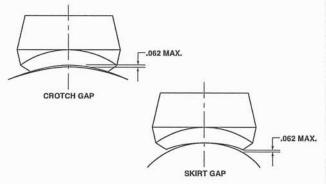
Forging Markings

Anvil Anvilets are clearly marked with the following:

- · Outlet size
- · Range of run pipe sizes that the Anvilet will fit
- · The weight, schedule number, or pressure class
- The material specification
- · Steel heat code identification

Installation Note

Anvil **Anvilets** are designed to have no more than a 1/16" gap (1.6mm) between the base or skirt of the **Anvilet** when it is seated directly upon the appropriate run pipe. However, it is recommended that the skirt of **Anvilets** be held slightly above the run pipe and tack welded to provide a small continuous root gap between the skirt and run pipe before completing the all-around welding beads or fillet.



Specials

Your local Anvil Branch will be more than happy to assist you with specially machined outlets and those made of alloy material.

Pressure Temperature Ratings

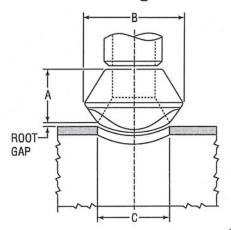
MSS standard Practice SP-97 gives the following correlation between fitting pressure class and pipe schedule number/wall thickness designation for calculation of pressure-temperature ratings:

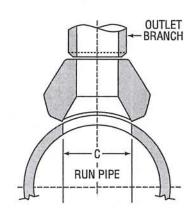
Branch Connection	Pressure Class of		inch tion Size	Pipe Wall for Rating	
Type	Fitting	NPS	DN	Basis	
	STD	1/8 - 24	6 - 600	STD	
Buttweld	XS/XH	1/8 - 24	6 - 600	XS/XH	
	SCH 160	1/2-6	15 - 150	SCH 160	
Threeded	3,000	1/4 - 4	8 - 100	XS/XH	
Threaded	6,000	1/2-2	15 - 50	SCH 160	
Cooket Welding	3,000	1/2-2	15 - 50	XS/XH	
Socket-Welding	6,000	1/2-2	15 - 50	SCH 160	

The maximum allowable pressure of a fitting is computed in accordance with the applicable piping code or regulation for straight seamless header (run) pipe or for material of equivalent composition and mechanical properties to the fitting. Any corrosion or mechanical allowances and any reduction in allowable stress due to temperature or other service conditions, must be applied to the pipe and fitting alike.

Universal Forged Steel Anvilets

Standard & Extra Strong Buttweld





BUTTWELD Standard



0.41-	Dutlet Size			Dim	ensio	ns		Herit M	laight
vutie	t Size	- 1	4	E	3	C		Unit V	reigni
NPS	DN	in	mm	in	mm	in	mm	lbs	kg
1/8	6	5/8	16	1	25	0.625	16	0.10	0.05
1/4	8	5/8	16	1	25	0.625	16	0.10	0.05
3/8	10	3/4	19	1	25	0.493	13	0.10	0.05
1/2	15	3/4	19	11/8	29	0.622	16	0.12	0.05
3/4	20	7/8	22	11/2	38	0.824	21	0.22	0.10
1	25	11/16	27	113/16	46	1.062	27	0.32	0.15
11/4	32	11/4	32	21/4	57	1.380	35	0.64	0.29
11/2	40	15/16	33	29/16	65	1.625	41	0.78	0.35
2	50	11/2	38	35/16	84	2.313	59	1.14	0.52
21/2	65	15/8	41	321/32	93	2.500	64	1.94	0.88
3	80	13/4	44	49/32	109	3.125	79	2.60	1.18
4	100	2	51	53/8	137	4.145	105	4.12	1.87
6	150	23/8	60	721/32	194	6.112	155	11.00	4.99
8	200	23/4	70	10%	264	8.688	221	28.00	12.70
10	250	31/16	78	129/16	319	10.813	275	39.00	17.69
12	300	33/8	86	141/8	378	12.813	325	65.00	29.48
14	350	31/2	89	161/8	410	14.063	357	70.00	31.75
16	400	311/16	94	181/4	464	16.063	408	92.00	41.73
18	450	41/16	103	20¾	527	18.625	473	125.00	56.70
20	500	45/8	117	231/16	586	20.063	510	175.00	79.38

BUTTWELD Extra Strong



Outlet Size				Dime	ensio	าร		Unit Weight		
oune	1 SIZE	1	1	В	1	C		Onit	reigni	
NPS	DN	in	mm	in	mm	ln .	mm	lbs	kg	
1/8	6	5/8	16	1	25	0.625	16	0.10	0.05	
1/4	8	5/8	16	1	25	0.625	16	0.10	0.05	
3/8	10	3/4	19	1	25	0.423	11	0.10	0.05	
1/2	15	3/4	19	11/8	29	0.546	14	0.12	0.05	
3/4	20	7/8	22	11/2	38	0.742	19	0.18	0.08	
1	25	11/16	27	213/16	71	1.062	27	0.36	0.16	
11/4	32	11/4	32	21/4	57	1.278	32	0.55	0.25	
11/2	40	15/16	33	29/16	65	1.625	41	0.68	0.31	
2	50	11/2	38	35/16	84	2.313	59	1.24	0.56	
21/2	65	15/8	41	321/32	93	2.500	64	2.26	1.02	
3	80	13/4	44	49/32	109	3.125	79	2.84	1.29	
4	100	2	51	53/8	137	4.145	105	4.56	2.07	
6	150	31/16	78	723/32	196	5.800	147	15.00	6.80	
8	200	31/8	98	10%	270	8.688	221	32.00	14.51	
10	250	31/2	89	121/8	327	10.738	273	46.00	20.87	
12	300	315/16	100	153/16	386	13.000	330	61.00	27.67	
14	350	41/8	105	1611/16	424	14.313	364	75.00	34.02	
16	400	47/16	113	181/8	479	16.500	419	115.00	52.16	
18	450	411/16	119	211/8	537	18.625	473	130.00	58.97	
20	500	5	127	23%	594	20.813	529	187.00	84.82	
24	600	51/2	140	271/8	708	25.125	638	316.00	143.34	

Each outlet size listed is available to fit any run curvature. BW Ends per B16.9 and B16.25. Design per MSS-SP-97.

137 271/8 708 25.125 638 280.00 127.01

RUN PIPE SIZES Outlet sizes 6" and less fit a number of run pipe sizes, and the fittings are marked accordingly. See page 126 for run pipe size combination table(s). SCHEDULES Standard Weight Fittings are the same as schedule 40 fittings through 10". A schedule 40 butt-welded Universal Forged Steel Anvilet for sizes 12" and larger is available. Dimensions and prices on application. Extra Strong Fittings are the same as schedule 80 fittings through 8". A schedule 80 butt-welded Universal Forged Steel Anvilet for sizes 10" and larger is available. Dimensions and prices on application. Pipe schedule numbers and weight designations are in accordance with ASME B36.10.

FLATS Flat butt-welded Universal Forged Steel Anvilet fittings for use on welding caps, elliptical heads and flat surfaces is available.

The A_B and C dimensions given for the Branch Connections in the above Table are for reference only and to be used as a guideline. Dimensions B and C are subject to change depending upon the manufacturing process utilized. Although every attempt has been made to insure that the information contained in this table is correct, Anvil reserves the right to change the C dimension as deemed necessary.



600 53/8

ANVILETS

Engineering SpecificationsUniversal Forged Steel Anvilets Run Size Combinations

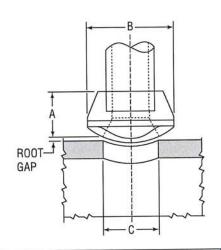
					0	utlet Size	(in)					
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4	6
	1/4	1/2 - 3/8	1-1/2	2-3/4	1	11/4	11/2	2	21/2	3	4	6
-	36 - 3	√s 36 − 3/4	36-11/4	36 - 21/2	11/2-11/4	2-11/2	31/2 - 2	3-21/2	4-3	4-31/2	6-5	8
Buttweld					36 - 2	6-21/2	36 - 4	6-31/2	10-5	6-5	10-8	10
£ 1						36 - 8		36 - 8	36-12	14-8	20-12	14-12
E .										36-16	36 - 22	18-16
												24 - 20
												34 - 26
						100						42 - 36
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4	6
	36 - 1	4 3/8	3/4 - 1/2	11/2-3/4	1	2-11/4	11/2	2	2 1/2	3	4	6
		36 - 1/2	36-1	36-2	11/2-11/4	5 - 21/2	31/2-2	3-21/2	4-3	4-31/2	6-5	8
Buttweld Every Strong					36 – 2	36 – 6	36-4	6-31/2	10-5	6-5	10-8	10
3 7								36 - 8	36-12	14-8	20 - 12	14-12
5										36-1	36 - 22	18-16
												24 - 20
												34 - 26
												42 - 36

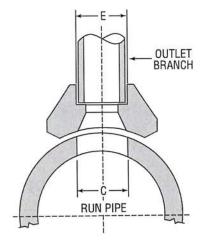
					Outle	t Size (in)					
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
Threaded Class 3000	3/8 - 1/4	1 - 3/8	1/2	11/4 - 3/4	1	11/2 - 11/4	11/2	2	21/2	3	4
	36 - 1/2	36 - 11/4	36 - 3/4	36 - 11/2	21/2-11/4	31/2 - 2	21/2-2	31/2-21/2	31/2 - 3	5 - 31/2	6-5
ass					36 – 3	36 – 4	5-3	6-4	6-4	14-6	10-8
声も							36 - 6	36 - 8	36 - 8	36-16	20-12
											36 - 22
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
0	3/8 - 1/4	1 - 3/8	1/2	3/4	1	11/2-11/4	11/2	2	21/2	3	4
Threaded Class 6000	36 - 1/2	36-11/4	36 - 3/4	11/4 - 1	21/2-11/4	31/2 - 2	21/2-2	31/2-21/2	$3\frac{1}{2} - 3$	31/2	5
ea s 6				36 - 11/2	36 - 3	8-4	5-3	6-4	5-4	4	6
hr						36-10	36 - 6	36 - 8	10-6	6-5	10-8
. 0	4								26-12	12-8	18-12
									36 - 28	36 - 14	36 - 20

					Outle	t Size (in)					
-	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
Socket-Weld Class 3000	1/4	1/2 - 3/8	1/2	11/4 - 3/4	1	11/2 - 11/4	11/2	2	21/2	3	4
ocket-Wel	36 - 3/8	36 - 3/4	36 - 3/4	36 - 11/2	21/2 - 11/4	31/2 - 2	21/2 - 2	31/2 - 21/2	31/2 - 3	5-31/2	6-5
kei					36 - 3	36 – 4	5-3	6-4	6-4	14 – 6	10-8
8 5							36 - 6	36 – 8	36 - 8	36-16	20-12
2											36 - 22
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
Socket-Weld Class 6000	36 - 1/4	36 - 3/8	1/2	1 - 3/4	1	11/4	11/2	2	3-21/2	31/2 - 3	4
¥ 9			36 -3/4	36 - 11/4	21/2-11/4	4-11/2	21/2-2	31/2 - 21/2	5 - 31/2	5-4	5
kel iss					36 – 3	36 – 5	5-3	6-4	18-6	10-6	8-6
2 2							36-6	36 - 8	36 - 20	26-12	14-10
2										36 - 28	36-16

Universal Forged Steel Anvilets

Standard & Extra Strong Socket-Weld





SOCKET-WELD Class 3000



Out	let			I	Dime	nsions		- 1.55		Ur	iit
Siz	ze	P	1	В		C		E		Wei	ght
NPS	DN	in	mm	in	mm	in	mm	in	mm	lbs	kg
1/8	6	3/4	19	1	25	0.625	16	9/32	7	0.10	0.05
1/4	8	3/4	19	1	25	0.364	9	3/8	10	0.14	0.06
3/8	10	13/16	21	11/16	27	0.493	13	7∕16	11	0.14	0.06
1/2	15	1	25	115/32	37	0.622	16	9/16	14	0.28	0.13
3/4	20	11/16	27	145/64	43	0.824	21	9/16	14	0.39	0.18
1	25	15/16	33	23/32	53	1.049	27	25/32	20	0.73	0.33
11/4	32	15/16	33	217/32	64	1.380	35	23/32	18	0.96	0.44
11/2	40	13/8	35	225/32	71	1.610	41	3/4	19	1.12	0.51
2	50	11/2	38	35/16	84	2.067	53	13/16	21	1.66	0.75
21/2	65	113/16	46	329/32	99	2.469	63	3/4	19	2.73	1.24
3	80	2	51	421/32	118	3.068	78	15/16	24	3.88	1.76
4	100	21/4	57	513/16	148	4.026	102	11/16	27	6.60	2.99

SOCKET-WELD Class 6000



Out	let			1	Dime	nsions				Unit		
Si	ze	1	1	В		C		E	=	Weight		
NPS	DN	in	mm	in	mm	in	mm	in	mm	lbs	kg	
1/2	15	11/4	32	13/4	44	0.464	12	13/16	21	0.28	0.13	
3/4	20	11/16	37	21/16	52	0.612	16	15/16	24	0.39	0.18	
1	25	19/16	40	217/32	64	0.815	21	11/32	26	0.73	0.33	
11/4	32	15/8	41	21/2	64	1.160	29	11/32	26	0.96	0.44	
11/2	40	111/16	43	35/16	84	1.338	34	11/16	27	1.63	0.74	
2	50	21/16	52	331/32	101	1.687	43	13/8	35	1.66	0.75	

Each outlet size listed is available to fit any run curvature. Socket dimensions are in accordance with ASME B16.11. Design per MSS-SP-97.

RUN PIPE SIZES Outlet sizes noted above fit a number of run pipe sizes, and the fittings are marked accordingly. See page 126 for run pipe size combination table(s).

FLATS A flat Socket-welded Universal Forged Steel Anvilet for use on welding caps, elliptical heads and flat surfaces is available.

The A,B and C dimensions given for the Branch Connections in the above Table are for reference only and to be used as a guideline. Dimensions B and C are subject to change depending upon the manufacturing process utilized. Although every attempt has been made to insure that the information contained in this table is correct, Anvil reserves the right to change the C dimension as deemed necessary.



Forged Steel Anvilets

Anvil **Anvilets** provide a strong branch pipe connection, considerably stronger than a welded pipe-to-pipe connection. Consequently, with good welding procedures, Anvil **Anvilets** offer greater resistance to distortion and bursting.

Anvil **Anvilets** readily and economically permit the adding of branch connectors to existing piping installations, eliminating the relatively higher cost of cutting or disassembly and reassembly required for the installation of tees.

Anvil Anvilets of the same outlet size as a header or run pipe size (i.e. "Full Size" Anvilets) are so proportioned that the (ellipticallyshaped) hole in the header pipe has the minimum weakening or distortion effect, and yet provides good fluid flow characteristics.

Specifications

Chemical and physical properties are rigidly controlled to ensure consistently high quality. Physical and chemical test reports are available on request. Traceability of individual Anvilets can be established through the heat code of each fitting.

Anvil **Anvilets** meet the requirements of MSS standard SP-97. They are forged from steel which complies with ASTM A105.

Threaded Anvilets - conform with ASME B1.20.1.

Socket-Weld Anvilets - dimensions conform with ASME B16.11.

Buttweld Anvilets - ends conform with ASME B16.25.

Reinforcement Requirements

ASME B31.1 Power Piping Code ASME B31.3 Refinery Code

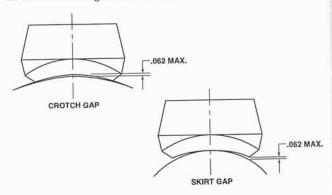
Forging Markings

Anvil Anvilets are clearly marked with the following:

- Outlet size
- · Range of run pipe sizes that the Anvilet will fit
- The weight, schedule number, or pressure class
- · The material specification
- · Steel heat code identification

Installation Note

Anvil **Anvilets** are designed to have no more than a $^{1}/_{16}$ " gap (1.6mm) between the base or skirt of the **Anvilet** when it is seated directly upon the appropriate run pipe. However, it is recommended that the skirt of **Anvilets** be held slightly above the run pipe and tack welded to provide a small continuous root gap between the skirt and run pipe before completing the all-around welding beads or fillet.



Specials

Your local Anvil Branch will be more than happy to assist you with specially machined outlets and those made of alloy material.

Pressure Temperature Ratings

MSS standard Practice SP-97 gives the following correlation between fitting pressure class and pipe schedule number/wall thickness designation for calculation of pressure-temperature ratings:

Branch Connection	Pressure Class of	Bra Connec	Pipe Wall for Rating		
Туре	Fitting	NPS	DN	Basis	
	STD	1/8 - 24	6 - 600	STD	
Buttweld	XS/XH	1/8 - 24	6 - 600	XS/XH	
	SCH 160	1/2-6	15 - 150	SCH 160	
Anto Variable	3,000	1/4 - 4	8 - 100	XS/XH	
Threaded	6,000	1/2- 2	15 - 50	SCH 160	
12 GR 3200 938	3,000	1/2- 2	15 - 50	XS/XH	
Socket-Welding	6,000	1/2- 2	15 - 50	SCH 160	

The maximum allowable pressure of a fitting is computed in accordance with the applicable piping code or regulation for straight seamless header (run) pipe or for material of equivalent composition and mechanical properties to the fitting. Any corrosion or mechanical allowances and any reduction in allowable stress due to temperature or other service conditions, must be applied to the pipe and fitting alike.



ANVILETS

Engineering SpecificationsUniversal Forged Steel Anvilets Run Size Combinations

					0	utlet Size	(in)					
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4	6
	1/4	1/2 - 3/8	1-1/2	2-3/4	1	11/4	11/2	2	21/2	3	4	6
	36 - 3/8	36 - 3/4	36 - 11/4	36 - 21/2	11/2-11/4	2-11/2	31/2-2	3-21/2	4 – 3	4-31/2	6-5	8
Buttweld Standard	30 - 78	30 - 74	00 174	00 271	36 – 2	6 - 21/2	36 – 4	6 - 31/2	10-5	6-5	10 - 8	10
we da						36 – 8		36 - 8	36-12	14 – 8	20 - 12	14-12
ta ta										36-16	36 - 22	18 – 16
w w												24 - 20
	-											34 - 26
												42 - 36
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4	6
	36 – 1/4	3/8	3/4 - 1/2	11/2-3/4	1	2-11/4	11/2	2	2 1/2	3	4	6
00	30 - 74	36 - 1/2	36 – 1	36 – 2	11/2 - 11/4	5 - 21/2	31/2 - 2	3-21/2	4-3	4 - 31/2	6-5	8
P 5		30 - 72	30-1	00 2	36 – 2	36 – 6	36 – 4	6-31/2	10-5	6-5	10 - 8	10
we	-				00 2	00 0		36 - 8	36-12	14 – 8	20-12	14-12
Buttweld Extra Strong			-							36 - 1	36 - 22	18-16
M F												24 - 20
The state of the s	-											34 - 26
												42 - 36

					Outlet	t Size (in)					
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
T 0		1 - 3/8	1/2	11/4 - 3/4	1	11/2 - 11/4	11/2	2	21/2	3	4
Threaded Class 3000	3/8 - 1/4	36 – 11/4	36 - 3/4	36 - 11/2	21/2 - 11/4	31/2 - 2	21/2-2	31/2-21/2	31/2 - 3	5-31/2	6-5
ea is 3	36 – ½	30 - 174	30 - 74	00 172	36 – 3	36 – 4	5-3	6-4	6 – 4	14 – 6	10 – 8
Thr las					00 0		36 – 6	36 - 8	36 - 8	36-16	20 - 12
- 0											36 - 22
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
		1 - 3/8	1/2	3/4	1	11/2 - 11/4	11/2	2	21/2	3	4
고 8	3/8 - 1/4	36 – 11/4	36 - 3/4	11/4 – 1	21/2 - 11/4	31/2 - 2	21/2 - 2	31/2-21/2	$3\frac{1}{2} - 3$	31/2	5
₽ G	36 – 1/2	30 - 174	30 - 74	36 - 11/2	36 – 3	8-4	5-3	6-4	5-4	4	6
Threaded Class 6000				30 - 172	00 0	36 – 10	36 - 6	36 - 8	10-6	6-5	10-8
						00 10			26 - 12	12-8	18-12
									36 - 28	36 - 14	36 - 20

					Outlet	Size (in)					
-	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
Socket-Weld Class 3000	1000		1/2	11/4 - 3/4	1	11/2 - 11/4	11/2	2	21/2	3	4
\$ 8	1/4	$\frac{1/2 - \frac{3}{8}}{36 - \frac{3}{4}}$	36 - 3/4	36 - 11/2	21/2 - 11/4	31/2 - 2	21/2-2	31/2 - 21/2	$3\frac{1}{2} - 3$	5 - 31/2	6-5
et-	36 – 3/8	36 - 94	30 - 74	30-172	36 – 3	36 – 4	5-3	6-4	6-4	14 – 6	10 – 8
a ck					00 0		36 - 6	36 - 8	36 - 8	36-16	20 - 12
SO											36 - 22
	1/4	3/8	1/2	3/4	1	11/4	11/2	2	21/2	3	4
Po		36 - 3/8	1/2	1 - 3/4	1	11/4	11/2	2	$3 - 2\frac{1}{2}$	31/2 - 3	4
-Weld	36 – 1/4	30 - 78	36 -3/4	36 – 11/4	21/2 - 11/4	4 - 11/2	21/2 - 2	31/2 - 21/2	5 - 31/2	5 – 4	5
et- s 6			30 - 94	30 - 174	36 - 3	36-5	5-3	6-4	18-6	10-6	8-6
Socket-Weld Class 6000					00 0		36 - 6	36 - 8	36 - 20	26-12	14-10
S 0										36 - 28	36-16





XINYUE STEEL GROUP Tianjin Xinyue Industrial and Trade Co.,Ltd

Address: Daqiuzhuang Industrial Area, Jinghai County, Tianjin, China, PC 301606

QUOTATION

Attention To :	Alba Galaviz
Buyer:	Integ Panama Corp
Subject:	SEAMLESS Steel Pipe

Quotation No.:	HNXY161019NF-Q102-rev 1
Date:	2016.10.19
From:	Niki - Sales Engineer

			STEEL		SPE	CIFIC	ATION			PACKA	GE	THEORETIC UNIT WEIGHT		QUANTIT	Υ	CIF COLON, PANAMA	
NO.	PRODUCTS	STANDTARD	GRADE	INCH	MM	SCH	WT MM	LENGTH M	ENDS	INTERNAL COATING	EXTERNAL COATING	KGS/PCS	PCS	METERS	TONS	USD/PCS	AMOUNT
	SEAMLESS Steel Pipe	ACTM A106	C: D		273.1			6	DIATN	NO	AUTI-RUST	361.89	40	240	14.5	US#226 60	US#0.064.00
1	SEAMLESS Steel Pipe	ASTM A106	Gr B	10	2/3.1	40	9.27	0	PLAIN	NO	BLACK COATING	201.89	40	240	14.5	US\$226.60	US\$9,064.00
2	SEAMLESS Steel Pipe	ASTM A106	Gr B	6	168.3	40	7.11	6	PLAIN	NO	AUTI-RUST BLACK COATING	169.58	100	600	17.0	US\$107.30	US\$10,730.00
3	SEAMLESS Steel Pipe	ASTM A106	Gr B	4	114.3	40	6.02	6	PLAIN	NO	AUTI-RUST BLACK COATING	96.45	10	60	1.0	US\$61.10	US\$611.00
4	SEAMLESS Steel Pipe	ASTM A106	Gr B	3	88.9	40	5.49	6	PLAIN	NO	AUTI-RUST BLACK COATING	67.76	50	300	3.4	US\$43.40	US\$2,170.00
5	SEAMLESS Steel Pipe	ASTM A106	Gr B	2 1/2	73	40	5.16	6	PLAIN	NO	AUTI-RUST BLACK COATING	51.80	60	360	3.1	US\$33.20	US\$1,992.00
6	SEAMLESS Steel Pipe	ASTM A106	Gr B	2	60.3	40	3.91	6	PLAIN	NO	AUTI-RUST BLACK COATING	32.62	70	420	2.3	US\$21.10	US\$1,477.00
7	SEAMLESS Steel Pipe	ASTM A106	Gr B	1 1/2	48.3	40	3.68	6	PLAIN	NO	AUTI-RUST BLACK COATING	24.30	50	300	1.2	US\$15.72	US\$786.00
8	SEAMLESS Steel Pipe	ASTM A106	Gr B	1 1/4	42.2	40	3.56	6	PLAIN	NO	AUTI-RUST BLACK COATING	20.35	40	240	0.8	US\$13.50	US\$540.00
9	SEAMLESS Steel Pipe	ASTM A106	Gr B	1	33.4	40	3.38	6	PLAIN	NO	AUTI-RUST BLACK COATING	15.01	30	180	0.5	US\$10.20	US\$306.00
10	SEAMLESS Steel Pipe	ASTM A106	Gr B	3/4	26.7	40	2.87	6	PLAIN	NO	AUTI-RUST BLACK COATING	10.12	10	60	0.1	US\$7.60	US\$76.00
11	SEAMLESS Steel Pipe	ASTM A106	Gr B	1/2	21.3	40	2.77	6	PLAIN	NO	AUTI-RUST BLACK COATING	7.59	20	120	0.2	US\$6.10	US\$122.00
12	SEAMLESS Steel Pipe	ASTM A106	Gr B	12	323.9	40	10.31	6	PLAIN	NO	AUTI-RUST BLACK COATING	478.40	27	162	12.9	US\$289.60	US\$7,819.20
13	SEAMLESS Steel Pipe	ASTM A106	Gr B	14	355.6	40	11.13	6	PLAIN	NO	AUTI-RUST BLACK COATING	567.31	2	12	1.1	US\$347.30	US\$694.60
14	SEAMLESS Steel Pipe	ASTM A106	Gr B	20	508	40	15.09	6	PLAIN	NO	AUTI-RUST BLACK COATING	1100.60	8	48	8.8	US\$726.20	US\$5,809.60
15	SEAMLESS Steel Pipe	ASTM A106	Gr B	24	609.6	40	17.48	6	PLAIN	NO	AUTI-RUST BLACK COATING	1531.52	40	240	61.3	US\$1,031.40	US\$41,256.00
					T	OTAL	AMOUN	IT			_		557	3342	128.03	/	US\$83,453.40



XINYUE STEEL GROUP

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QUOTATION

Attention To :	Alba Galaviz
Buyer:	Integ Panama Corp
Subject:	SEAMLESS Steel Pipe

Quotation No.:	HNXY161019NF-Q102-rev 1
Date:	2016.10.19
From:	Niki - Sales Engineer

TECHNICAL TERMS:

- 1. Tolerance of Dimension: According to the above quality standard stipulated
- 2. Ends: Plain ends with protection caps
- 3. Coating: Auti-rust black coating on the external surface
- 4. Packing: Several pcs bundle together with metal strip for size below 8" and bilk packing for above 8"
- 5. Origin: Made in China

PRICE TERMS:

- 1. The above price is based on theoretic weight.
- 2. Above Price has not included the fee of Third Party Inspection
- 3. Above price is based on 30% T/T as deposit and 70% balance against B/L copy
- 4. The valid period of above price is 3 days

DELIVERY TERMS:

- 1. Loading date: All the goods will be loaded within 40days after received the deposit
- 2. Shipment Method: Container