



COTIZACION
Nro. 200023908

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
Lugar de Entrega: CALLE 50 CON CALLE 54 SOH
Forma de Pago:

Teléfono: 398-3483
Fax: 6780-0852

Emisión: 01/11/2016
Orden de Compra:
Pagina No 1 de 2
Vendedor: ALBIS SOLANO

Observaciones:

P. CODIGO	DESCRIPCION	PESO U.M.	CANT	UN	PRECIO	TOTAL NETO
1 2000005461	COUP RED N CR 150L 3/4 X 1/2	0	72.000	UN	0,48	34,56
2 2000005458	COUP RED N CR 150L 1/2 X 1/4	0	12.000	UN	0,32	3,84
3 2000005222	CODOS NEGRO C/R 90o 150LB 1/2	0	18.000	UN	0,40	7,20
4 2000005992	TEES IGUAL.NEG.C/R 150LB 1 1/2	0	40.000	UN	2,95	118,00
5 2000005463	COUP RED N CR 150L 1 X 1/2	0	40.000	UN	0,71	28,40
6 2000005194	CODOS NEGRO C/R 45o 150L 1 1/2	0	40.000	UN	1,77	70,80
7 2000005226	CODOS NEGRO C/R 90o 150L 1 1/2	0	40.000	UN	1,95	78,00
8 2000005991	TEES IGUAL.NEG C/R 150LB 1 1/4	0	30.000	UN	1,80	54,00
9 2000005225	CODOS NEGRO C/R 90o 150L 1 1/4	0	18.000	UN	1,52	27,36
10 2000005193	CODOS NEGRO C/R 45o 150L 1 1/4	0	18.000	UN	1,45	26,10
11 2000005465	COUP RED N CR 150L 1 1/4 X 3/4	0	26.000	UN	0,93	24,18
12 2000005989	TEES IGUAL.NEG.C/R 150LB 3/4	0	96.000	UN	0,63	60,48
13 2000005262	CODOS P/S 45o SCH 40 6	0	30.000	UN	15,56	466,80
14 2000005752	REDUC COUP #40 6 X 4	0	4.000	UN	12,87	51,48
15 2000006035	TEE P/S NEGRA #40 4	0	6.000	UN	9,56	57,36
16 2000005306	CODOS P/S 90o SCH 40 4	0	22.000	UN	3,90	85,80

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-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.

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Tonelaje: 0,000

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17 2000005260	CODOS P/S 45o SCH 40 4	0	14.000	UN	4,27	59,78
18 2000005747	REDUC COUP #40 4 X 3	0	4.000	UN	4,48	17,92
19 2000005745	REDUC COUP #40 4 X 2	0	6.000	UN	4,36	26,16
20 2000006034	TEE NEGRA P/S #40 3	0	8.000	UN	6,46	51,68
21 2000005259	CODOS P/S 45o SCH 40 3	0	24.000	UN	3,11	74,64
22 2000005305	CODOS P/S 90o SCH 40 3	0	16.000	UN	2,20	35,20
23 2000005790	REDUC COUP #80 3 X 2	0	10.000	UN	4,37	43,70
24 2000006033	TEE NEGRA P/S #40 2 1/2	0	10.000	UN	4,76	47,60
25 2000005475	COUP RED N CR 150L 2 1/2 X 2	0	10.000	UN	4,07	40,70
26 2000005391	COUPLING NEGRO C/R 150LBS 2	0	20.000	UN	1,95	39,00
27 2000005735	REDUC COUP #40 2 X 1 1/2	0	50.000	UN	1,32	66,00
Sub-Total						1696,74
ITBMS						118,77
Total						1.815,51

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Tonelaje: 0,000

Observaciones de Posición:



#	Month	Year	Last Rev:
13	11	2015	20/10/15
Gestión de Control de Calidad/ Quality Management			
FO-INT-ING-CDE001-REV01			

Commercial Bid Evaluation CBE

Material Code #/ Código del Material:				Fecha/ Date:	21/10/16
				Realizado por/ By:	TR
Descripción/ Description:	ACERO DE SALA DE MAQUINAS				
Disciplina/ Discipline:	HVAC	Type:	Materiales		

Aprobado TBE / Approved Technical Bid Especification TBE:	YES	NO APLICA	NO APLICA	NO APLICA
Aprobado RFA / Approved RFA :	YES	NO APLICA	NO APLICA	NO APLICA
Plazo de entrega/ Delivery Date:	3 DIAS	3 DIAS	3 DIAS	3 DIAS
Lugar de entrega/ Location:	TOCUMEN	TOCUMEN	FOB HOUSTON	TOCUMEN

Codigo B.O.M	Description/ Descripción	Cant.	Und.	Monto Presupuestado	Vendor Name:	Vendor 1		Vendor 2		Vendor 3		Vendor 4	
						FERRETERIA INDUSTRIAL		556 Hughes supply Doral		Federal Steel Supply			
	TUBERIA				Condiciones de Pago/ Shippment Terms	30 days		CONTADO		CONTADO		CONTADO	
	Tubería de acero al carbono SCH 40, diametro= 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
	Tubería de acero al carbono SCH 40, diametro= 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
	Tubería de acero al carbono SCH 40, diametro= 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
	Tubería de acero al carbono SCH 40, diametro= 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/ 8,065.89		B/ 6,440.84		B/ 0.00	
Costo TOTAL/ TOTAL Cost :						B/ 42,894.09		B/ 123,292.87		B/ 98,452.84		B/ 0.00	
Moneda/ Currency:						Dolares		Dolares		Dolares		Dolares	

ANILLOS													
	Anillo para soldar de acero al carbono (150 Psi), Diametro=3/4"	36	UND	B/ 0.00		B/ 0.00	B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00
	Anillo para soldar de acero al carbono (150 Psi), Diametro=1"	20	UND	B/ 0.00			B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00
	Anillo de acero al Carbono para soldar (150 PSI) de Diametro=1/4"	64	UND	B/ 0.00			B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00
ITBMS						B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00	
Costo TOTAL/ TOTAL Cost :						B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00	
Moneda/ Currency:						Dolares		Dolares		Dolares		Dolares	

NIPLES													
	Niple de acero al carbono (150 Psi), Dimensiones 1/4"x3"	55	UND			B/ 0.00	B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00
	Niple de Acero (150 Psi) de 1/4"x4"	30	UND				B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00
ITBMS						B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00	
Costo TOTAL/ TOTAL Cost :						B/ 0.00		B/ 0.00		B/ 0.00		B/ 0.00	
Moneda/ Currency:						Dolares		Dolares		Dolares		Dolares	

CODOS												
	Codo de 45 Grados de Acero al Carbono SCH 40 (150 Psi), Diametro=12"	20	UND			B/.0.00	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				B/.0.00		B/.0.00			B/.0.00
	Codo de 90 Grados, Acero al Carbono SCH 40, Diametro=24"	17	UND				B/.0.00	B/.1,799.58	B/.30,592.86	B/.436.00	B/.7,412.00	B/.0.00
	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/.0.00
	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	B/.0.00
	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/.0.00
	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/.0.00
						ITBMS	B/.258.08	B/.3,127.61	B/.751.28	B/.0.00		
						Costo TOTAL/ TOTAL Cost :	B/.3,945.00	B/.47,807.73	B/.11,483.88	B/.0.00		
						Moneda/ Currency:	Dolares	Dolares	Dolares	Dolares		

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/.0.00
	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/.0.00
	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	B/.0.00
	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	B/.0.00
						ITBMS	B/.15.01	B/.274.82	B/.46.80	B/.0.00		
						Costo TOTAL/ TOTAL Cost :	B/.229.41	B/.4,200.78	B/.715.30	B/.0.00		
						Moneda/ Currency:	Dolares	Dolares	Dolares	Dolares		

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	B/.0.00
	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/.0.00
	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/.0.00
	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/.0.00
	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/.0.00
	Brida de Acero al Carbono SCH 40, Diametro=4"	4	UND				B/.0.00		B/.0.00		B/.0.00	B/.0.00
	Tapon de Acero al Carbono SCH 40, Diametro 24"	6	UND				B/.0.00		B/.0.00		B/.0.00	B/.0.00
						ITBMS	B/.684.65	B/.2,017.34	B/.910.78	B/.0.00		
						Costo TOTAL/ TOTAL Cost :	B/.10,465.34	B/.30,836.43	B/.13,921.93	B/.0.00		
						Moneda/ Currency:	Dolares	Dolares	Dolares	Dolares		

GRAN TOTAL DE ACERO SALA DE MAQUINAS						ITBMS	B/.3,763.90	B/.13,485.65	B/.8,149.70	B/.0.00		
						Costo TOTAL/ TOTAL Cost :	B/.61,297.73	B/.219,623.45	B/.132,723.65	B/.0.00		
						Moneda/ Currency:	Dolares	Dolares	Dolares	Dolares		

NOTA DE PROVEEDOR		RESUMEN DE COMPRA POR PROVEEDOR	B/.57,533.836		B/.8,456.210	
OBSERVACIONES						

RECOMENDACION		
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COTIZACION Nro. 200022197

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Emisión: 11/10/2016
Orden de Compra:
Pagina No 1 de 3
Vendedor: ALBIS SOLANO

Observaciones:
SALA DE MAQUINAS
ATTE: THOMAS

P. CODIGO	DESCRIPCION	PESO U.M.	CANT	UN	PRECIO	TOTAL 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

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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

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Pagina No 3 de 3
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SALA DE MAQUINAS
ATTE: THOMAS

P. CODIGO	DESCRIPCION	PESO U.M.	CANT	UN	PRECIO	TOTAL 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
ITBMS						4949.34
Total						75.654,26

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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

Attention:

Your Inquiry #:

Company:

Ingenieria Integral
 Avenida Balboa, Balboa Square
 4th floor Office 412
 Panama City
 507

Freight Info: FOB HOUSTON

Customer PO #:

Accepted By:

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

Quotation

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

Attention:

Your Inquiry #:

Company:

Ingenieria Integral
Avenida Balboa, Balboa Square
4th floor Office 412
Panama City
507

Freight Info:

FOB HOUSTON

Customer PO #:

Accepted By:

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

Quotation

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

THANKS,
BOB KEANEY

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Taxable Total:
Sales Tax:

Total Amount:



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Attention:

Your Inquiry #:

Company:

Ingenieria Integral
Avenida Balboa, Balboa Square
4th floor Office 412
Panama City
507

Freight Info:

FOB HOUSTON

Customer PO #:

Accepted By:

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

Quotation

Ln#	Description & Piece Length	Qty	Price	UM	Pounds	Item Total
	RKEANEY@FEDSTEEL.COM FEDERAL STEEL SUPPLY					

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All prices subject to final confirmation.

Weight Total

210,292

Taxable Total:
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: 556 HUGHES SUPPLY DORAL 8034 NW 14 STREET DORAL FL 33126 305-477-3045 Fax 305-477-4351			PAGE NO. 1 of 3

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

QUOTED FOR		CUSTOMER PURCHASE ORDER NUMBER		CUSTOMER RELEASE NUMBER		SALESPERSON	
MILAGROS		INTEGCA				House Sales	
WRITER		SHIP VIA		TERMS		EXPIRATION DATE	FREIGHT ALLOWED
Fred Ferrer				CASH		12/01/16	No
QUOTE QTY	CUR PART#	DESCRIPTION				Net Prc	Ext Prc
		ITEM ARE QUOTING IN STD WALL .375 NOT SCH 40 ALL PIPE ARE APPROX 21 FT LONG XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
504ft	1262126	PIPE 10 BLK A106B S40 SEAMLESS PE DOM				45.600/ft	22982.40
567ft	1260086	PIPE 12 BLK A106B S40 SEAMLESS PE D				56.067/ft	31789.80
42ft	1807672	PIPE 14" BLK A106B STD SEAMLESS PE DOM				67.187/FT	2821.84
168ft	1807683	PIPE 20 BLK A106B STD SEAMLESS PE DOM				109.867/ft	18457.60
840ft	2926659	PIPE 24 STD A106 SMLS BLK PIPE .375 WALL				132.267/ft	111104.00
8ea	1940797	DOMWELFI 24 150# RF BLIND FLG A105				1047.000/ea	8376.00
4ea	1940766	DOMWELFI 14 150# RF BLD FLG A105				301.599/ea	1206.39
2ea	1940759	DOMWELFI 12 150# RF BLD FLG A105				182.121/ea	364.24
4ea	1940751	DOMWELFI 10 150# RF BLD FLG A105				120.921/ea	483.69
2ea	1940722	DOMWELFI 4 150# RF BLD FLG A105				18.840/ea	37.68
5ea	1940715	DOMWELFI 3 150# RF BLD FLG A105				17.932/ea	89.66
17ea	1936854	DOMWELFI 24 STD LR 90 WELD ELL A234				1799.581/ea	30592.88
4ea	1936847	DOMWELFI 20 STD LR 90 WELD ELL A234				1272.516/ea	5090.06
2ea	1936822	DOMWELFI 14 STD LR 90 WELD ELL A234				509.695/ea	1019.39
55ea	1936815	DOMWELFI 12 STD LR 90 WELD ELL A234				353.261/ea	19429.37
39ea	1936807	DOMWELFI 10 STD LR 90 WELD ELL A234				238.501/ea	9301.55
2ea	1936785	DOMWELFI 4 STD LR 90 WELD ELL A234				28.775/ea	57.55
19ea	1936778	DOMWELFI 3 STD LR 90 WELD ELL A234				17.463/ea	331.79
7ea	1936771	DOMWELFI 2-1/2 STD LR 90 WELD ELL A234				14.305/ea	100.14

*** Continued on Next Page ***

Quotation

556 HUGHES SUPPLY DORAL
8034 NW 14 STREET
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QUOTE DATE	QUOTE NUMBER
10/17/16	S148703904
QUOTED BY: 556 HUGHES SUPPLY DORAL 8034 NW 14 STREET DORAL FL 33126 305-477-3045 Fax 305-477-4351	PAGE NO. 2 of 3

Printed : 16:06:34 17 OCT 2016

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Cash Sale Miami
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SHIP TO :1013578
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305-477-3045

QUOTED FOR		CUSTOMER PURCHASE ORDER NUMBER	CUSTOMER RELEASE NUMBER	SALESPERSON	
MILAGROS		INTEGCA		House Sales	
WRITER	SHIP VIA	TERMS		EXPIRATION DATE	FREIGHT ALLOWED
Fred Ferrer		CASH		12/01/16	No
QUOTE QTY	OUR PART#	DESCRIPTION		Net Prc	Ext Prc
8ea	1936763	DOMWELFI 2 STD LR 90 WELD ELL A234		11.807/ea	94.45
18ea	1936754	DOMWELFI 1-1/2 STD LR 90 WELD ELL A234		8.445/ea	152.02
10ea	3754224	DOMWELFI 24X14 DOM STD TEE		3527.813/ea	35278.13
32ea	3754225	DOMWELFI 24X12 DOM STD TEE		3527.813/ea	112890.03
18ea	3688013	DOMWELFI 24X10 STD REDUCIND WELD TEE A234		3527.813/ea	63500.64
2ea	2924443	DOMWELFI 20 STD WELD TEE A234 REDUCER TEE IN 20" ARE NOT MADE BELOW 8" OFFER WELL O LET		3195.347/ea	6390.69
2ea	1254436	ANV 20-12X4 STD BW UNIVERSAL ANVILET 0766259097		32.557/ea	65.11
4ea	1552008	ANV 36-12X21/2 STD BW UNIVERSAL ANVILET 0766258990		23.540/ea	94.16
2ea	1332355	ANV 36-4X11/2 STD B/W UNIVERSAL ANVILET 0766258859		10.193/ea	20.39
3ea	1937320	DOMWELFI 12 STD WELD TEE A234		505.777/ea	1517.33
7ea	1937592	DOMWELFI 12 X 10 STD WELD TEE A234		651.811/ea	4562.67
15ea	1937274	DOMWELFI 3 STD WELD TEE A234		43.743/ea	656.14
3ea	1937267	DOMWELFI 2-1/2 STD WELD TEE A234		39.249/ea	117.75
1ea	3734538	DOMWELFI 2-1/2X1 STD CS WELD TEE DOM		52.227/ea	52.23
1ea	1549824	ANV 36-3/4X1/2 3000# S/W UNIVERSAL ANVILET 0766260053		4.351/ea	4.35
4ea	1937261	DOMWELFI 2 STD WELD TEE A234		28.443/ea	113.77
2ea	1937256	DOMWELFI 1-1/2 STD WELD TEE A234		27.805/ea	55.61
2ea	2560186	DOMWELFI 24X20 STD BW CONC RED DOM		877.333/ea	1754.67

*** Continued 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: 556 HUGHES SUPPLY DORAL 8034 NW 14 STREET DORAL FL 33126 305-477-3045 Fax 305-477-4351			PAGE NO. 3 of 3

Printed : 16:06:34 17 OCT 2016

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 MIAMI, FL 33178

SHIP TO :1013578
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305-477-3045

QUOTED FOR		CUSTOMER PURCHASE ORDER NUMBER		CUSTOMER RELEASE NUMBER		SALESPERSON	
MILAGROS		INTEGCA				House Sales	
WRITER		SHIP VIA		TERMS		EXPIRATION DATE	FREIGHT ALLOWED
Fred Ferrer				CASH		12/01/16	No
QUOTE QTY	OUR PART#	DESCRIPTION				Net Prc	Ext Prc
2ea	3754233	DOMWELFI 24X14 STD CONC				1837.867/ea	3675.73
		DOM REDUCER					
13ea	1937958	DOMWELFI 12 X 10 STD CONC WELD RED				157.141/ea	2042.84
		A234					
12ea	1937950	DOMWELFI 12 X 8 STD CONC WELD RED				180.733/ea	2168.80
		A234					
6ea	1937935	DOMWELFI 10 X 8 STD CONC WELD RED				127.133/ea	762.80
		A234					
2ea	1937928	DOMWELFI 10 X 6 STD CONC WELD RED				119.345/ea	238.69
		A234					
2ea	1937823	DOMWELFI 4 X 1-1/2 STD CONC WELD				52.459/ea	104.92
		RED A234					
20ea	1937804	DOMWELFI 3 X 2 STD CONC WELD RED				19.931/ea	398.61
		A234					
8ea	1937719	DOMWELFI 1-1/2 X 1 STD CONC WELD				27.923/ea	223.38
		RED A234					
6ea	1940399	DOMWELFI 20 150# RF SO FLG A105				374.549/ea	2247.30
40ea	1940379	DOMWELFI 14 150# RF SO FLG A105				168.652/ea	6746.08
116ea	1940375	DOMWELFI 12 150# RF SO FLG A105				126.933/ea	14724.27
167ea	1940368	DOMWELFI 10 150# RF SO FLG A105				85.599/ea	14294.98
74ea	1940360	DOMWELFI 8 150# RF SO FLG A105				37.187/ea	2751.81
2ea	1940352	DOMWELFI 6 150# RF SO FLG A105				24.493/ea	48.99
		DELIVERY 3-5 WKS APPROX					
		XXXXXXXXXXXXXXXXXXXXXXXXXXXX					
		TAXES NOT INCLUDED					
Prices contained in this quote are the prices in effect at the time of quotation, and are subject to change at any time. We are not responsible for inaccurate quantity descriptions. Quantities should be checked against plans and specifications for accuracy. Special order material is non-cancellable. We are not responsible for delays not within our control.						Subtotal	541385.37
						Bid Total	541385.37

Prices contained in this quote are the prices in effect at the time of quotation, and are subject to change at any time. We are not responsible for inaccurate quantity descriptions. Quantities should be checked against plans and specifications for accuracy. Special order material is non-cancellable. We are not responsible for delays not within our control.

Pipe Specifications

SPECIFICATION	KINDS OF STEEL PERMITTED	HOT-DIP GALVANIZING	TENSILE REQUIREMENTS																																									
ASTM A-53 Sizes 1/8" - 26" Std, E.S. and XX USA Schedules 10 through 160 SCOPE Covers BLACK and hot-dipped GALVANIZED 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.	<table><thead><tr><th></th><th>Tensile Strength Min., psi</th><th>Yield Point Min., psi</th></tr></thead><tbody><tr><td colspan="3">TYPE S, SEAMLESS or TYPE E, ELECTRIC RESISTANCE WELDED</td></tr><tr><td>Grade A</td><td>48,000</td><td>30,000</td></tr><tr><td>Grade B</td><td>60,000</td><td>35,000</td></tr><tr><td colspan="3">TYPE F, BUTTWELDED</td></tr><tr><td>Acid bessemer</td><td>50,000</td><td>30,000</td></tr><tr><td>Open hearth basic oxygen or electric furnace</td><td>45,000</td><td>25,000</td></tr></tbody></table>		Tensile Strength Min., psi	Yield Point Min., psi	TYPE S, SEAMLESS or TYPE E, ELECTRIC RESISTANCE WELDED			Grade A	48,000	30,000	Grade B	60,000	35,000	TYPE F, BUTTWELDED			Acid bessemer	50,000	30,000	Open hearth basic oxygen or electric furnace	45,000	25,000																				
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ASTM A-106 Sizes 1/8" - 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 1 1/2" 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.	<table><thead><tr><th></th><th>Tensile Strength Min., psi</th><th>Yield Point Min., psi</th></tr></thead><tbody><tr><td>Grade A</td><td>48,000</td><td>30,000</td></tr><tr><td>Grade B</td><td>60,000</td><td>35,000</td></tr><tr><td>Grade C</td><td>70,000</td><td>40,000</td></tr></tbody></table>		Tensile Strength Min., psi	Yield Point Min., psi	Grade A	48,000	30,000	Grade B	60,000	35,000	Grade C	70,000	40,000																													
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API 5-L Sizes 1/8" - 44" Std, E.S. and XX SCOPE Covers WELDED and SEAMLESS LINE pipe suitable for use in conveying gas, water and oil in both the oil and natural gas industries.	<table><thead><tr><th></th><th>Open hearth, Electric furnace or Basic oxygen</th></tr></thead><tbody><tr><td colspan="2">SEAMLESS AND ELECTRIC WELD</td></tr><tr><td>Grade A-25 Class I</td><td>x</td></tr><tr><td>Grade A-25 Class II</td><td>x</td></tr><tr><td>Grade A</td><td>x</td></tr><tr><td>Grade B</td><td>x</td></tr><tr><td colspan="2">SUBMERGED-ARC WELD</td></tr><tr><td>Grade A</td><td>x</td></tr><tr><td>Grade B</td><td>x</td></tr><tr><td colspan="2">BUTTWELD</td></tr><tr><td>Grade A-25 Class I</td><td>x</td></tr><tr><td>Grade A-25 Class II</td><td>x</td></tr></tbody></table>		Open hearth, Electric furnace or Basic oxygen	SEAMLESS AND ELECTRIC WELD		Grade A-25 Class I	x	Grade A-25 Class II	x	Grade A	x	Grade B	x	SUBMERGED-ARC WELD		Grade A	x	Grade B	x	BUTTWELD		Grade A-25 Class I	x	Grade A-25 Class II	x	<table><thead><tr><th></th><th>Tensile Strength Min., psi</th><th>Yield Point Min., psi</th></tr></thead><tbody><tr><td colspan="3">SEAMLESS ELECTRIC WELDED OR BUTTWELDED</td></tr><tr><td>Grade A-25</td><td>45,000</td><td>25,000</td></tr><tr><td colspan="3">SEAMLESS ELECTRIC WELDED or SUBMERGED-ARC WELDED</td></tr><tr><td>Grade A</td><td>48,000</td><td>30,000</td></tr><tr><td>Grade B</td><td>60,000</td><td>35,000</td></tr></tbody></table>		Tensile Strength Min., psi	Yield Point Min., psi	SEAMLESS ELECTRIC WELDED OR BUTTWELDED			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
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Even 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.

Even 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	.035	.040

Silicon	Copper	Nickel	Chromium
.10-.35	.40 max	.40 max	.30 max

Molybdenum	Vanadium	Columbium
.12 max	.08 max	.02 max

Mechanical requirements:

Tensile Strength (min)	70,000 psi
Yield Strength (min)	36,000 psi
Basic minimum elongation for walls 5/16 in. and over in thickness, strip tests.	30%
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 requirements, 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 re-assembly 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

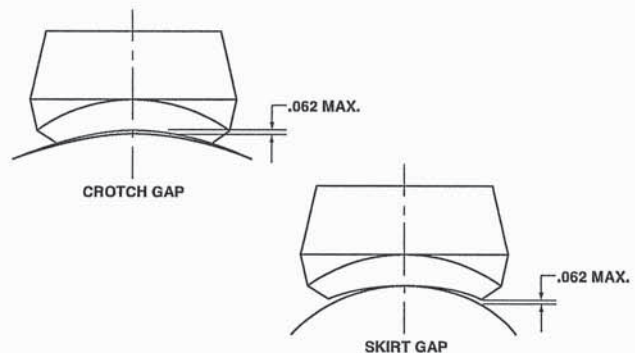
Forging Markings

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 $\frac{1}{16}$ " 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 Type	Pressure Class of Fitting	Branch Connection Size		Pipe Wall for Rating Basis
		NPS	DN	
Buttweld	STD	$\frac{1}{8}$ - 24	6 - 600	STD
	XS/XH	$\frac{1}{8}$ - 24	6 - 600	XS/XH
	SCH 160	$\frac{1}{2}$ - 6	15 - 150	SCH 160
Threaded	3,000	$\frac{1}{4}$ - 4	8 - 100	XS/XH
	6,000	$\frac{1}{2}$ - 2	15 - 50	SCH 160
Socket-Welding	3,000	$\frac{1}{2}$ - 2	15 - 50	XS/XH
	6,000	$\frac{1}{2}$ - 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.

Malleable Iron

Cast Iron

Small Steel Fittings

Pipe Nipples & Pipe Couplings

Forged Steel Fittings & Unions

Anvilets

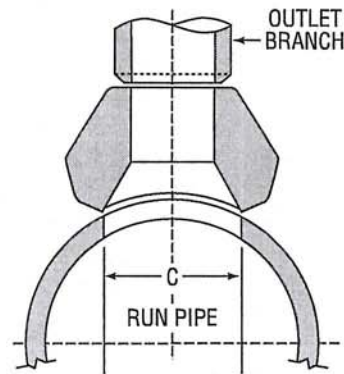
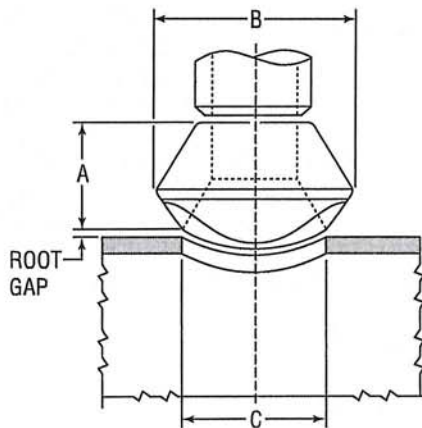
Catawissa

J.B. Smith Products

Carton Information

ANVILETS

Universal Forged Steel Anvilets Standard & Extra Strong Butt weld



BUTTWELD Standard



Outlet Size		Dimensions						Unit Weight	
		A	B	C					
NPS	DN	in	mm	in	mm	in	mm	lbs	kg
1/8	6	3/8	16	1	25	0.625	16	0.10	0.05
1/4	8	3/8	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	1 1/8	29	0.622	16	0.12	0.05
3/4	20	7/8	22	1 1/2	38	0.824	21	0.22	0.10
1	25	1 1/16	27	1 13/16	46	1.062	27	0.32	0.15
1 1/4	32	1 1/4	32	2 1/4	57	1.380	35	0.64	0.29
1 1/2	40	1 1/16	33	2 5/16	65	1.625	41	0.78	0.35
2	50	1 1/2	38	3 1/16	84	2.313	59	1.14	0.52
2 1/2	65	1 5/8	41	3 21/32	93	2.500	64	1.94	0.88
3	80	1 3/4	44	4 3/32	109	3.125	79	2.60	1.18
4	100	2	51	5 3/8	137	4.145	105	4.12	1.87
6	150	2 3/8	60	7 23/32	194	6.112	155	11.00	4.99
8	200	2 3/4	70	10 3/8	264	8.688	221	28.00	12.70
10	250	3 1/16	78	12 1/16	319	10.813	275	39.00	17.69
12	300	3 3/8	86	14 7/8	378	12.813	325	65.00	29.48
14	350	3 1/2	89	16 1/8	410	14.063	357	70.00	31.75
16	400	3 11/16	94	18 1/4	464	16.063	408	92.00	41.73
18	450	4 1/16	103	20 3/4	527	18.625	473	125.00	56.70
20	500	4 3/8	117	23 1/16	586	20.063	510	175.00	79.38
24	600	5 3/8	137	27 7/8	708	25.125	638	280.00	127.01

BUTTWELD Extra Strong



Outlet Size		Dimensions						Unit Weight	
		A	B	C					
NPS	DN	in	mm	in	mm	in	mm	lbs	kg
1/8	6	3/8	16	1	25	0.625	16	0.10	0.05
1/4	8	3/8	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	1 1/8	29	0.546	14	0.12	0.05
3/4	20	7/8	22	1 1/2	38	0.742	19	0.18	0.08
1	25	1 1/16	27	2 1/16	71	1.062	27	0.36	0.16
1 1/4	32	1 1/4	32	2 1/4	57	1.278	32	0.55	0.25
1 1/2	40	1 1/16	33	2 5/16	65	1.625	41	0.68	0.31
2	50	1 1/2	38	3 1/16	84	2.313	59	1.24	0.56
2 1/2	65	1 5/8	41	3 21/32	93	2.500	64	2.26	1.02
3	80	1 3/4	44	4 3/32	109	3.125	79	2.84	1.29
4	100	2	51	5 3/8	137	4.145	105	4.56	2.07
6	150	3 1/16	78	7 23/32	196	5.800	147	15.00	6.80
8	200	3 3/8	98	10 3/8	270	8.688	221	32.00	14.51
10	250	3 1/2	89	12 1/8	327	10.738	273	46.00	20.87
12	300	3 5/8	100	15 1/8	386	13.000	330	61.00	27.67
14	350	4 1/8	105	16 11/16	424	14.313	364	75.00	34.02
16	400	4 7/16	113	18 3/8	479	16.500	419	115.00	52.16
18	450	4 11/16	119	21 1/8	537	18.625	473	130.00	58.97
20	500	5	127	23 3/8	594	20.813	529	187.00	84.82
24	600	5 1/2	140	27 7/8	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.

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.

ANVILETS

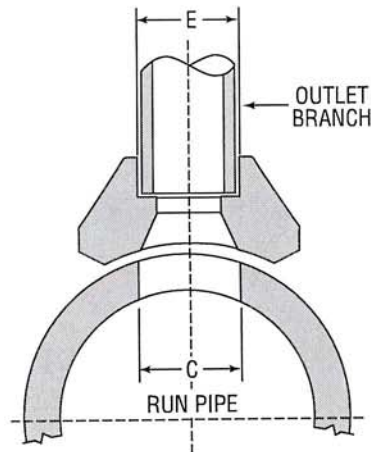
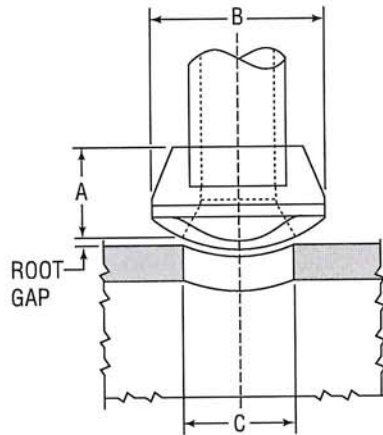
Engineering Specifications

Universal Forged Steel Anvilets Run Size Combinations

Outlet Size (in)												
Butt Weld Standard	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	1/4	1/2 - 3/8	1 - 1/2	2 - 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	36 - 3/8	36 - 3/4	36 - 1 1/4	36 - 2 1/2	1 1/2 - 1 1/4	2 - 1 1/2	3 1/2 - 2	3 - 2 1/2	4 - 3	4 - 3 1/2	6 - 5	8
					36 - 2	6 - 2 1/2	36 - 4	6 - 3 1/2	10 - 5	6 - 5	10 - 8	10
						36 - 8		36 - 8	36 - 12	14 - 8	20 - 12	14 - 12
										36 - 16	36 - 22	18 - 16
												24 - 20
Butt Weld Extra Strong	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	36 - 1/4	3/8	3/4 - 1/2	1 1/2 - 3/4	1	2 - 1 1/4	1 1/2	2	2 1/2	3	4	6
		36 - 1/2	36 - 1	36 - 2	1 1/2 - 1 1/4	5 - 2 1/2	3 1/2 - 2	3 - 2 1/2	4 - 3	4 - 3 1/2	6 - 5	8
					36 - 2	36 - 6	36 - 4	6 - 3 1/2	10 - 5	6 - 5	10 - 8	10
								36 - 8	36 - 12	14 - 8	20 - 12	14 - 12
										36 - 1	36 - 22	18 - 16
												24 - 20
Threaded Class 3000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	3/8 - 1/4	1 - 3/8	1/2	1 1/4 - 3/4	1	1 1/2 - 1 1/4	1 1/2	2	2 1/2	3	4	6
	36 - 1/2	36 - 1 1/4	36 - 3/4	36 - 1 1/2	2 1/2 - 1 1/4	3 1/2 - 2	2 1/2 - 2	3 1/2 - 2 1/2	3 1/2 - 3	5 - 3 1/2	6 - 5	8
					36 - 3	36 - 4	5 - 3	6 - 4	6 - 4	14 - 6	10 - 8	10
							36 - 6	36 - 8	36 - 8	36 - 16	20 - 12	14 - 12
												36 - 22
Threaded Class 6000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	3/8 - 1/4	1 - 3/8	1/2	3/4	1	1 1/2 - 1 1/4	1 1/2	2	2 1/2	3	4	6
	36 - 1/2	36 - 1 1/4	36 - 3/4	1 1/4 - 1	2 1/2 - 1 1/4	3 1/2 - 2	2 1/2 - 2	3 1/2 - 2 1/2	3 1/2 - 3	3 1/2	5	6
				36 - 1 1/2	36 - 3	8 - 4	5 - 3	6 - 4	5 - 4	4	6	6
						36 - 10	36 - 6	36 - 8	10 - 6	6 - 5	10 - 8	10
									26 - 12	12 - 8	18 - 12	14 - 12
									36 - 28	36 - 14	36 - 20	36 - 20

Outlet Size (in)												
Socket-Weld Class 3000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	1/4	1/2 - 3/8	1/2	1 1/4 - 3/4	1	1 1/2 - 1 1/4	1 1/2	2	2 1/2	3	4	6
	36 - 3/8	36 - 3/4	36 - 3/4	36 - 1 1/2	2 1/2 - 1 1/4	3 1/2 - 2	2 1/2 - 2	3 1/2 - 2 1/2	3 1/2 - 3	5 - 3 1/2	6 - 5	8
					36 - 3	36 - 4	5 - 3	6 - 4	6 - 4	14 - 6	10 - 8	10
							36 - 6	36 - 8	36 - 8	36 - 16	20 - 12	14 - 12
Socket-Weld Class 6000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	36 - 1/4	36 - 3/8	1/2	1 - 3/4	1	1 1/4	1 1/2	2	3 - 2 1/2	3 1/2 - 3	4	6
			36 - 3/4	36 - 1 1/4	2 1/2 - 1 1/4	4 - 1 1/2	2 1/2 - 2	3 1/2 - 2 1/2	5 - 3 1/2	5 - 4	5	6
					36 - 3	36 - 5	5 - 3	6 - 4	18 - 6	10 - 6	8 - 6	10
							36 - 6	36 - 8	36 - 20	26 - 12	14 - 10	14 - 10
Socket-Weld Class 9000										36 - 28	36 - 16	36 - 16

Universal Forged Steel Anvilets Standard & Extra Strong Socket-Weld



SOCKET-WELD Class 3000



Outlet Size		Dimensions								Unit Weight	
		A		B		C		E			
NPS	DN	in	mm	in	mm	in	mm	in	mm	lbs	kg
⅛	6	¾	19	1	25	0.625	16	⅝	7	0.10	0.05
¼	8	¾	19	1	25	0.364	9	⅜	10	0.14	0.06
⅜	10	1⅜	21	1⅛	27	0.493	13	⅞	11	0.14	0.06
½	15	1	25	1⅝	37	0.622	16	⅞	14	0.28	0.13
¾	20	1⅛	27	1⅝	43	0.824	21	⅞	14	0.39	0.18
1	25	1⅛	33	2⅜	53	1.049	27	2⅝	20	0.73	0.33
1¼	32	1⅛	33	2⅞	64	1.380	35	2⅜	18	0.96	0.44
1½	40	1⅜	35	2⅝	71	1.610	41	¾	19	1.12	0.51
2	50	1½	38	3⅛	84	2.067	53	1⅜	21	1.66	0.75
2½	65	1⅜	46	3⅝	99	2.469	63	¾	19	2.73	1.24
3	80	2	51	4⅜	118	3.068	78	1⅝	24	3.88	1.76
4	100	2¼	57	5⅛	148	4.026	102	1⅞	27	6.60	2.99

SOCKET-WELD Class 6000



Outlet Size		Dimensions								Unit Weight	
		A		B		C		E			
NPS	DN	in	mm	in	mm	in	mm	in	mm	lbs	kg
½	15	1¼	32	1¾	44	0.464	12	1⅜	21	0.28	0.13
¾	20	1⅜	37	2⅛	52	0.612	16	1⅝	24	0.39	0.18
1	25	1⅝	40	2⅞	64	0.815	21	1⅝	26	0.73	0.33
1¼	32	1⅞	41	2½	64	1.160	29	1⅝	26	0.96	0.44
1½	40	1⅞	43	3⅛	84	1.338	34	1⅞	27	1.63	0.74
2	50	2⅞	52	3⅞	101	1.687	43	1⅞	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 Anvil 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 re-assembly 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 (elliptically shaped) 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

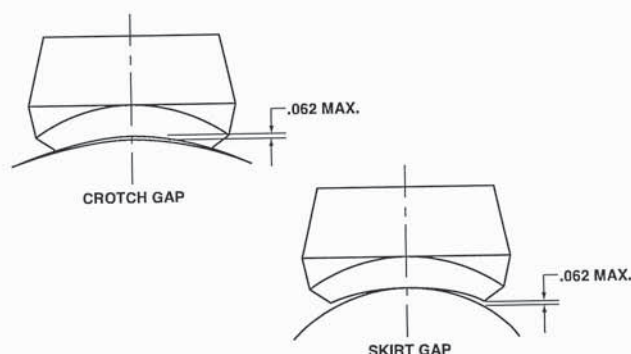
Forging Markings

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 $\frac{1}{16}$ " 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 Type	Pressure Class of Fitting	Branch Connection Size		Pipe Wall for Rating Basis
		NPS	DN	
Buttweld	STD	$\frac{1}{8}$ - 24	6 - 600	STD
	XS/XH	$\frac{1}{8}$ - 24	6 - 600	XS/XH
	SCH 160	$\frac{1}{2}$ - 6	15 - 150	SCH 160
Threaded	3,000	$\frac{1}{4}$ - 4	8 - 100	XS/XH
	6,000	$\frac{1}{2}$ - 2	15 - 50	SCH 160
Socket-Welding	3,000	$\frac{1}{2}$ - 2	15 - 50	XS/XH
	6,000	$\frac{1}{2}$ - 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 Specifications

Universal Forged Steel Anvilets Run Size Combinations

		Outlet Size (in)											
Buttweld Standard		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6
	1/4	1/2 - 3/8	1 - 1/2	2 - 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	
	3/8 - 1/2	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4	3/8 - 1/4
Buttweld Extra Strong	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	
	3/8 - 1/4	3/8	3/8 - 1/2	1 1/2 - 3/4	1	2 - 1 1/4	1 1/2	2	2 1/2	3	4	6	
		3/8 - 1/2	3/8 - 1	3/8 - 2	1 1/2 - 1 1/4	5 - 2 1/2	3 1/2 - 2	3 - 2 1/2	4 - 3	4 - 3 1/2	6 - 5	8	
					3/8 - 2	3/8 - 6	3/8 - 4	6 - 3 1/2	10 - 5	6 - 5	10 - 8	10	
								3/8 - 8	3/8 - 12	14 - 8	20 - 12	14 - 12	
										3/8 - 16	3/8 - 22	18 - 16	
												24 - 20	
												34 - 26	

		Outlet Size (in)											
Threaded Class 3000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4		
	3/8 - 1/4	1 - 3/8	1/2	1 1/4 - 3/4	1	1 1/2 - 1 1/4	1 1/2	2	2 1/2	3	4		
	3/8 - 1/2	3/8 - 1 1/4	3/8 - 3/4	3/8 - 1 1/2	2 1/2 - 1 1/4	3 1/2 - 2	2 1/2 - 2	3 1/2 - 2 1/2	3 1/2 - 3	5 - 3 1/2	6 - 5		
					3/8 - 3	3/8 - 4	5 - 3	6 - 4	6 - 4	14 - 6	10 - 8		
							3/8 - 6	3/8 - 8	3/8 - 8	3/8 - 16	20 - 12		
											3/8 - 22		
Threaded Class 6000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4		
	3/8 - 1/4	1 - 3/8	1/2	3/4	1	1 1/2 - 1 1/4	1 1/2	2	2 1/2	3	4		
	3/8 - 1/2	3/8 - 1 1/4	3/8 - 3/4	1 1/4 - 1	2 1/2 - 1 1/4	3 1/2 - 2	2 1/2 - 2	3 1/2 - 2 1/2	3 1/2 - 3	3 1/2	5		
				3/8 - 1 1/2	3/8 - 3	8 - 4	5 - 3	6 - 4	5 - 4	4	6		
						3/8 - 10	3/8 - 6	3/8 - 8	10 - 6	6 - 5	10 - 8		
									26 - 12	12 - 8	18 - 12		

		Outlet Size (in)											
Socket-Weld Class 3000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4		
	1/4	1/2 - 3/8	1/2	1 1/4 - 3/4	1	1 1/2 - 1 1/4	1 1/2	2	2 1/2	3	4		
	3/8 - 3/8	3/8 - 3/4	3/8 - 3/4	3/8 - 1 1/2	2 1/2 - 1 1/4	3 1/2 - 2	2 1/2 - 2	3 1/2 - 2 1/2	3 1/2 - 3	5 - 3 1/2	6 - 5		
					3/8 - 3	3/8 - 4	5 - 3	6 - 4	6 - 4	14 - 6	10 - 8		
							3/8 - 6	3/8 - 8	3/8 - 8	3/8 - 16	20 - 12		
											3/8 - 22		
Socket-Weld Class 6000	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4		
	3/8 - 1/4	3/8 - 3/8	1/2	1 - 3/4	1	1 1/4	1 1/2	2	3 - 2 1/2	3 1/2 - 3	4		
			3/8 - 3/4	3/8 - 1 1/4	2 1/2 - 1 1/4	4 - 1 1/2	2 1/2 - 2	3 1/2 - 2 1/2	5 - 3 1/2	5 - 4	5		
					3/8 - 3	3/8 - 5	5 - 3	6 - 4	18 - 6	10 - 6	8 - 6		
							3/8 - 6	3/8 - 8	3/8 - 20	26 - 12	14 - 10		
										3/8 - 28	3/8 - 16		

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

Address: Daqiu Zhuang Industrial Area, Jinghai County, Tianjin, China, PC 301606

MP: 86-189 0849 2903; Fax: 86-731-89702586 Mail: nikifan@vip.163.com;niki@xysteelpipe.com URL: www.xysteelpipe.com

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

NO.	PRODUCTS	STANDTARD	STEEL GRADE	SPECIFICATION					PACKAGE			THEORETIC UNIT WEIGHT	QUANTITY			CIF COLON, PANAMA	
				OD		WT		LENGTH	ENDS	INTERNAL COATING	EXTERNAL COATING	KGS/PCS	PCS	METERS	TONS	USD/PCS	AMOUNT
				INCH	MM	SCH	MM	M									
1	SEAMLESS Steel Pipe	ASTM A106	Gr B	10	273.1	40	9.27	6	PLAIN	NO	AUTI-RUST BLACK COATING	361.89	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
TOTAL AMOUNT													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: Anti-rust black coating on the external surface
4. Packing: Several pcs bundle together with metal strip for size below 8" and bulk 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