

B.F.E. S.p.A.
BONNEY FORGE
VALVE LICENSEE

SEDE LEGALE
VIA A. VIGORE, 11/12
38100 BOLZANO (ITALY)

HEAD OFFICE FORGED VALVE PLANT
VIA TORRETTA 21/A - 38061 ALDENNO S. MARINO (TRENTO) Italy
Tel. 0461 466111 - 466112 - 466113 - 466114 - 466115 - 466116 - 466117 - 466118 - 466119 - 466120

TEST CERTIFICATE (DECLARATION OF CONFIRMITY)

N. 4207/03

7 OF 12

CUSTOMER

CUNADO INTERNACIONAL, S.A.
CTRA. DE DAGANZO KM. 2,400
28806 ALCALA DE HENARES
SPAIN

2202

YOUR PURCHASE ORDER NO.

3697

OUR JOB NO.

030408

DATE

25.02.03

☒

PARTIAL ORDER

BALANCE ORDER

REMARKS:

☒

API 598

BS 6755

EN 10204 3.1 B

TEST

MATERIAL TESTED

ITEM	Q.TY	PART. N.	DESCRIPTION	PSI			BAR	
				☒	HYDROSTATIC	SEATS	SEATS	PNEUM.

1" F22/CR13* 1500 LBS
V481 COMPONENT KEY VAR 66014433
MAT.NO. 1044048

7 187676
PISTON CHECK VALVE BB FB SPRING LOAD.
15H 405A/BW80 + M BW.SCH.80

1" F11/CR13* 1500 LBS
RV472 COMPONENT KEY VAR 66414323
MAT.NO. 1047792

11 0899339
GATE VALVE OS&Y BB FB
H 104AT SW

3/4" A105N/CR13* 800 LBS
S306 COMPONENT KEY VAR 24003254
MAT.NO. 1046974

12 091225
GATE VALVE OS&Y BB FB
H 105AT SW

1" A105N/CR13* 800 LBS
S306 COMPONENT KEY VAR 24003254
MAT.NO. 1046727

4 148338
GATE VALVE OS&Y BB FB
H 107C/T SW

1 1/2" A105N/CR13* 800 LBS
S306 COMPONENT KEY VAR 24003254
MAT.NO. 1053142

3 135578
GATE VALVE OS&Y BB FB
9H 104B/T SW

CHEMICAL ANALYSIS

				IMPACT TEST				TEST. TEMP °C				HARDNESS				C.E.			
				1 JOULE	2 JOULE	3 JOULE						HB							
				ELOGATION RED. OF AREA															
				%	%	%		%	%	%		%	%	%		%	%	%	%
				TENSILE															
				N/mm2	N/mm2	N/mm2		N/mm2	N/mm2	N/mm2		N/mm2	N/mm2	N/mm2		N/mm2	N/mm2	N/mm2	N/mm2
				C	MN	SI	P	C	MN	SI	P	C	MN	SI	P	C	MN	SI	P
210	ZEV	F22	BUDERUS	0,100	0,500	0,310	0,007	0,001	0,001	0,310	0,990								
				526,00	330,00	33,40	77,00					160,00							
				C	MN	SI	P	S	CR	MO									
				0,120	0,540	0,570	0,008	0,001	1,230	0,540									
60	LRA	F11	BUDERUS	510,00	391,00	34,00	68,50					161,70							
				C	MN	SI	P	S	CR	MO									
				0,120	0,420	0,610	0,006	0,001	1,360	0,520									
				552,00	376,00	27,40	68,60					172,00							
80	ALZ	A105N	RIVA	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000					
				517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387					
				C	MN	SI	P	S	CR	NI	CU	V	NB						
				0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,000						
270	AOX	A105N	RIVA	500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33		0,435					
				C	MN	SI	P	S	CR	NI	MO	CU	V	NB					
				0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000					
				522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00		0,413					
270	ALZ	A105N	RIVA	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000					
				517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387					
				C	MN	SI	P	S	CR	NI	MO	CU	V	NB					
				0,170	0,900	0,210	0,017	0,020	0,080	0,050	0,010	0,140	0,003	0,000					
100	AAF	A105N	RIVA	508,00	302,00	36,60	55,90	42,00	45,00	51,00	+20	142,00		0,350					
				C	MN	SI	P	S	CR	NI	MO	CU	V	NB					
				0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000					
				522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00		0,413					
100	BODY	AHH	SA105N	0,210	0,920	0,200	0,012	0,020	0,060	0,080	0,010	0,160	0,018	0,000					
				495,00	321,00	35,00	65,00	45,00	41,00	55,00	+20	145,00		0,396					
				C	MN	SI	P	S	CR	NI	MO	CU	V	NB					
				0,210	0,920	0,200	0,012	0,020	0,060	0,080	0,010	0,160	0,018	0,000					

TEST RESULT

HYDROSTATIC AND

SATISFACTORY

THIRD AUTHORITY

CLIENT INSPECTOR

DATE

INSPECTION DEPT.

B.F.E. S.p.A.

DATE

25/07/03

BONNEY FORGE VALVE LICENSEE

QA/QC. Dip

E. AZZOLA



B.F.E. S.p.A.
BONNEY FORCE
VALVE LICENSEE

SEDE LEGALE
Via A. Volta, n° 3
38100 Bolzano (ITALY)

HEAD OFFICE FORGED VALVE PLANT
Via S. Maria 2024 - 20031 Albino (BG) Italy
Numero Verde 800 111 111 (toll free)

TEST CERTIFICATE (DECLARATION OF CONFIDENCE)

N. 4207/03

YOUR PURCHASE ORDER NO.

3697

OUR JOB NO.

030408

DATE

25.02.03

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PARTIAL ORDER

BALANCE ORDER

☒

API 598

BS 6755

☒

EN 10204 3.1 B

CUSTOMER
CUNADO INTERNACIONAL, S.A.
CTRA. DE DAGANZO KM. 2,400
28806 ALCALA DE HENARES
SPAIN

MATERIAL TESTED				TEST			COMPONENT	CHEMICAL ANALYSIS															
ITEM	Q.TY	PART. N.	DESCRIPTION	☒	PSI	BAR	HEAT CODE/MATERIAL	MECHANICAL PROPERTIES															
				HYDROSTATIC		PNEUM.		TENSILE N/mm2	ELONGATIONRED. OF AREA			IMPACT TEST			TEST TEMP °C	HARDNESS		C.E.					
				SHELL	SEATS				SI	MIN	YIELD N/mm2	%	1 JOULE	2 JOULE		3 JOULE	HB		HB				
110	3/4" SA105N/CR13* 1500 LBS S330 COMPONENT KEY VAR 24003374 MAT.NO. 1040882			☒	5575	4075	100	BODY	C	MN	326,00	28,00	59,00	83,00	89,00	87,00	+20	140,30	CU	V	NB	0,000	0,385
								AHS	SA105N	0,195	0,960	0,210	0,011	0,020	0,050	0,010	0,160	0,023	0,000				
								73405	RIVA	489,00	326,00	28,00	59,00	83,00	89,00	87,00	+20	140,30	CU	V	NB	0,000	
								BONNET		C	MN	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000		
								ALX	SA105N	522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00	CU	V	NB	0,413	
	8 135580 GATE VALVE OS&Y BB FB 9H 107C/T SW 1 1/2" SA105N/CR13* 1500LBS S330 COMPONENT KEY VAR 24003374 MAT.NO. 1040033			☒	5575	4075	100	BONNET	C	MN	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000				
								AOE	SA105N	0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000				
								370051	RIVA	516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30	CU	V	NB	0,413	
								BODY	C	MN	0,960	0,170	0,025	0,025	0,140	0,100	0,010	0,250	0,002	0,000			
								CHZ	SA105N	0,195	0,960	0,170	0,025	0,025	0,140	0,100	0,010	0,250	0,002	0,000			
150	10 187673 GATE VALVE OS&Y BB FB 15H 105C/BW160 BW.SCH.160 1" F22/CR13* 1500 LBS S481 COMPONENT KEY VAR 24004433 MAT.NO. 1041635			☒	5625	4125	100	70491	TANARO	520,00	320,00	27,40	55,90				149,00	CU	V	NB	0,000	0,408	
								BODY	C	MN	1,030	0,160	0,016	0,024	0,060	0,040	0,010	0,110	0,002	0,000			
								CRZ	SA105N	0,185	1,030	0,160	0,016	0,024	0,060	0,040	0,010	0,110	0,002	0,000			
								78252	RIVA	515,00	343,00	32,00	64,10				143,00	CU	V	NB	0,380		
								BONNET	C	MN	0,410	0,390	0,008	0,008	2,130	0,920							
	2 187676 PISTON CHECK VALVE BB FB SPRING LOAD. 15H 405A/BW80 + M BW.SCH.80 1" F11/CR13* 1500 LBS RV472 COMPONENT KEY VAR 66414323 MAT.NO. 1047792			☒	5625	4125		BODY	C	MN	0,500	0,310	0,007	0,001	2,310	0,990							
								ZEV	F22	0,100	0,500	0,310	0,007	0,001	2,310	0,990							
								45952	BUDERUS	526,00	330,00	33,40	77,00				160,00	CU	V	NB	0,000		
								BONNET	C	MN	0,540	0,570	0,008	0,001	1,230	0,540							
								LRA	F11	0,120	0,540	0,570	0,008	0,001	1,230	0,540							
1 121901 PISTON CHECK VALVE BB FB SPRING LOAD. H 405A/T + M SW			☒	2975	2175		41358	BUDERUS	510,00	391,00	34,00	68,50				161,70	CU	V	NB	0,000	0,387		
							BODY	C	MN	0,420	0,610	0,006	0,001	1,360	0,520								
							LRC	F11 CL.2	0,120	0,420	0,610	0,006	0,001	1,360	0,520								
							43007	BUDERUS	552,00	376,00	27,40	68,60				172,00	CU	V	NB	0,000			
							BODY	C	MN	1,010	0,240	0,008	0,020	0,100	0,050	0,170	0,018	0,000					

THIRD AUTHORITY

THIRD AUTHORITY

CLIENT INSPECTOR

DATE

INSPECTION/DEPT.

DATE

HYDROSTATIC AND

SATISFACTORY

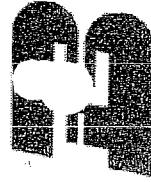
B.F.E. S.p.A.

BONNEY FORCE VALVE LICENSEE

QA/QCS Dtp

E. AZZOLA

23/07/03



B.F.E. S.p.A.

BONNEY FORGE
VALVE LICENSEE

SEDE LEGALE
via A. Volta, n° 3
38100 Bolzano (ITALY)

HEAD OFFICE - FORGED VALVE PLANT
via Forale 70/A - 38061 Alfama S. Alessandro (BS) Italy
tel. 030 408 3697 fax 030 408 3698

(DECLARATION OF CONFIRMITY)

N. 4207/03

CUSTOMER

CUNADO INTERNACIONAL, S.A.

CTRA. DE DAGANZO KM. 2,400

28806 ALCALA DE HENARES

SPAIN

10 OF 12

2202

YOUR PURCHASE ORDER NO.

3697

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030408

REMARKS:

DATE

25.02.03

☒

PARTIAL ORDER

BALANCE ORDER

☒

API 598

BS 6755

☒

EN 10204 3.1.B

MATERIAL TESTED

Q.TY PART. N. DESCRIPTION

☒ PSI

HYDROSTATIC

SHELL

SEATS

BAR

PNEUM.

SEATS

COMPONENT

HEAT CODE/MATERIAL

HEAT NR./SUPPLIER

MAX.

ASTM A182 F11/2 MIN.

MAX.

MIN.

MAX.

ASTM A182 F22/3 MIN.

MAX.

MIN.

MAX.

EC DECLARATION OF CONFORMITY

B.F.E. SPA, VIA TONALE 70/A, ALBANO S.A. (BG) ITALY
ACCORDING TO ANNEX VII OF DIRECTIVE 97/23/CE,
HEREBY DECLARE THAT THE PRODUCTS DETAILED ABOVE
ARE IN COMPLIANCE WITH THE DIRECTIVE 97/23/CE AND
HAVE BEEN MANUFACTURED IN ACCORDANCE WITH
CONFORMITY ASSESSMENT MODULE H AS APPROVED BY

CHEMICAL ANALYSIS

MECHANICAL PROPERTIES

TENSILE YIELD ELOGATION RED OF AREA IMPACT TEST TEST. TEMP. HARDNESS C.E.
N/mm² N/mm² % % 1 JOULE 2 JOULE 3 JOULE HB HB HB

C

MN

SI

P

S

CR

MO

C

MN

SI

P

S

CR

MO

0,050

0,150

515,00

0,300

0,600

310,00

0,500

20,00

20,00

0,040

0,040

2,000

2,500

0,870

1,130

156,00

207,00

207,00

TEST RESULT

HYDROSTATIC AND

SATISFACTORY

THIRD AUTHORITY

CLIENT INSPECTOR

DATE

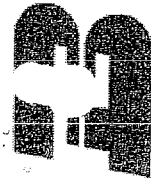
INSPECTION DEPT.

DATE

B.F.E. S.p.A.

BONNEY FORGE VALVE LICENSEE

23/07/03



B.F.E. S.p.A.

BONNEY FORGE
VALVE LICENSEE

SEDE LEGALE
via A. Volta, n°4
38100 Bolzano (ITALY)

HEAD OFFICE - FORGED VALVE PLANT
Via Trento 21/4 - 38101 Alagna S. Alessandro (BS) Italy
Autunno 1998 - 1999 - 2000 - 2001 - 2002

TEST CERTIFICATE
(DECLARATION OF CONFIDENTIALITY)

N. 4207/03

RE 11 OF 12

CUSTOMER

CUNADO INTERNACIONAL, S.A.
CTRA. DE DAGANZO KM. 2,400
28806 ALCALA DE HENARES
SPAIN

YOUR PURCHASE ORDER NO.

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☒ PARTIAL ORDER

☐ BALANCE ORDER

REMARKS:

OUR JOB NO.

030408

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API 598

BS 6755

☒

EN 10204 3.1 B

MATERIAL TESTED

Q.TY PART. N. DESCRIPTION

DET NORSKE VERITAS (COD.0434)
OF VERITASVEIEN 1, 1322 HOVIK, NORWAY.

CATEGORY :III

FLUID GROUP :I

APPLICABLE STDS.(MANUFACTURING) : ANSI B16.34,
API 602, BS 5352 & CUSTOMER SPECIFICATIONS.

APPLICABLE STDS.(TESTING) : API 598, BS 6755 ,
DIN 3230 & CUSTOMER SPECIFICATIONS.

OTHERS APPLICATION DIRECTIVES : 93/68/EEC

EC DECLARATION OF CONFORMITY

B.F.E. SPA,VIA TONALE 70/A,ALBANO S.A.(BG) ITALY
DECLARE THAT UNDER OUR SOLE RESPONSIBILITY THAT
THE PRODUCTS DETAILED ABOVE HAS BEEN MANUFACTU-
RED ACCORDING TO SOUND ENGINEERING PRACTICE IN
AN ENVIRONMENT ASSESSED AND CERTIFIED TO MODULE
H OF THE PRESSURE EQUIPMENT DIRECTIVE 97/23/CE,
AND MEETS THE REQUIREMENTS OF THE PED ACCORDING
TO ARTICLE 3 PARAGRAPH 3.

SIGNED.....

TEST

☒ PSI ☐ BAR
HYDROSTATIC PNEUM.
SHELL SEATS SEATS

COMPONENT

HEAT CODE/MATERIAL

HEAT NR./SUPPLIER

CHEMICAL ANALYSIS

MECHANICAL PROPERTIES

TENSILE YIELD ELOGATIONRED. OF AREA IMPACT TEST TEST. TEMP. HARDNESS C.E.
N/mm2 N/mm2 % 1 JOULE 2 JOULE 3 JOULE °C HB HB

TEST RESULT

HYDROSTATIC AND

SATISFACTORY

THIRD AUTHORITY

CLIENT INSPECTOR

DATE

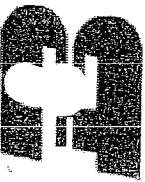
INSPECTION DEPT.

B.F.E. S.p.A.

BONNEY FORGE VALVE LICENSEE

DATE

23/07/03



B.F.E. S.P.A.
BONNEY FORGE
VALVE LICENSEE

SEDE LEGALE
via A. Volta, n° 4
38100 Bolzano (ITALY)

HEAD OFFICE - FORGED VALVE PLANT
via Torale Ziva - 28061 Albino S. Alessandro (BG) Italy
Numero Verde 800 100 100 (toll free)

(DECLARATION OF CONFIDENTIALITY)

N. 4207/03

CUSTOMER

CUNADO INTERNACIONAL, S.A.
CTRA. DE DAGANZO KM. 2,400
28806 ALCALA DE HENARES
SPAIN

YOUR PURCHASE ORDER NO.

3697

OUR JOB NO.

030408

REMARKS:

DATE

25.02.03

☒

PARTIAL ORDER

BALANCE ORDER

☒ API 598
☒ BS 6755
☒ EN 10204 3.1.B

CHEMICAL ANALYSTS

MECHANICAL PROPERTIES

ITEM	Q.TY	PART. N.	DESCRIPTION	TEST			COMPONENT	MECHANICAL PROPERTIES										HARDNESS HB	C.E.
				☒ PSI	☐ BAR	☐ PNEUM		TENSILE N/mm2	YIELD N/mm2	ELONGATION %	RED OF AREA %	1 JOULE	2 JOULE	3 JOULE	TEST TEMPI °C	HB	HB		
			PRINT NAME : M. SARTORI TITLE : GENERAL MANAGER																
			- VISUAL DIMENSIONAL EXAMINATION HAS BEEN CARRIED OUT WITH SATISFACTORY RESULT.																
			- TRIM MATERIAL (DISK-SEAT-STEM) AND BOLTING ARE ACCORDING TO THE P.O. AND MATERIAL SPECIFICATIONS.																
			- A105 MATERIAL HAS BEEN NORMALIZED ACCORDING TO ASTM A105 SPECIFICATIONS: TEMP. 900°C AND COOLING IN STILL AIR.																
			- F11 MATERIAL HAS BEEN NORMALIZED TO 960°C AND TEMPERED TO MIN 677°C.																
			- F22 MATERIAL HAS BEEN NORMALIZED TO 960°C AND TEMPERED TO 700°C MIN.																

TEST RESULT

HYDROSTATIC AND
DYNAMIC TEST

SATISFACTORY

THIRD AUTHORITY

DATE

CLIENT INSPECTOR

DATE

INSPECTION DEPT.

DATE

B.F.E. S.p.A.

BONNEY FORGE VALVE LICENSEE

signature

DATE

23/07/03

E A7701 A

GENERAL SALES CONDITION

WARRANTY

All B.F.E. products are warranted to be free from manufacturing defects for a period of one (1) year from date of shipment, and any found to be defective within that period will be replaced without charge, provided (1) that the product was used as recommended and in accordance with approved installation and operating practices, (2) that its failure resulted from a manufacturing defect and not from damage due to corrosive, abrasive, or other wear normally to be expected in the services intended, (3) that the product was not modified or changed (unless when approval was given by B.F.E.) and (4) that written notice of such defect is delivered to B.F.E. during such one (1) year period. No labor cost or other expense or liability will be assumed.

PARTIAL SHIPMENT AND PAYMENTS

B.F.E. reserves the right to make partial shipment from time to time, and to tender invoices therefor which shall be due and payable as provided in said invoices. If the Purchaser becomes overdue in any such partial payment, B.F.E. shall be entitled to suspend work and/or avail itself of other legal remedies.

DELAYS

All promises of shipments from are estimated as closely as possible, and we will use our best effort to ship within the time promised but do not guarantee to do so, and assume no liability for not doing so. Materials stated to be in stock are subject to prior sale.

RETURN OF MATERIAL

No product of our manufacture may be returned without written consent. All goods returned are subject to a handling charge plus freight in both directions and charges for any required reconditioning, unless otherwise specified in writing by B.F.E.

PATENTS

The Purchaser will indemnify and hold harmless B.F.E. against and from any claims, costs (including attorneys fees) and liabilities arising out of any suit alleging infringement of any United States patent by any product supplied by B.F.E. under the contract and made in accordance with the design and/or specification furnished by the Purchaser to B.F.E.

FORCE MAJEURE

Any delays in or failure of performance of B.F.E. shall not constitute default or give rise to any claims for damages if and to the extent that such delay or failure is caused by occurrences beyond the control of B.F.E., including, but not limited to: acts of God or the public enemy, expropriation or confiscation of facilities, compliance with any order or request of any governmental authority, acts of war, rebellion or sabotage or damage resulting therefrom; embargoes or other export restrictions, fires, floods, explosions, accidents, breakdowns, riots or strikes or other concerted acts of workmen, whether direct or indirect; or any other causes whether or not of same class or kind as those specifically above named which are not within the control of B.F.E. and which, by the exercise of reasonable diligence, B.F.E. is unable to prevent or provide against.

CLAIMS AND ORDER CANCELLATIONS

Claims will be considered only if made in writing 10 days from receipt of goods. Partial or complete cancellations of order can be accepted only upon previous agreement or by written consent and, in no case later than 15 days from order date. Any claims or disputes will be referred to the Court of Bergamo.

CONDIZIONI GENERALI DI VENDITA

VALIDITA' DELL'OFFERTA

La merce è sempre resa "Franco Fabbrica", salvo patto contrario.

CONSEGNA MATERIALI

La B.F.E. s.p.a. non assume alcuna responsabilità per ritardi nelle consegne che s'intendono sempre indicative e non vincolanti. I rischi dovuti al trasporto della merce sono a carico del destinatario anche nel caso che la spedizione sia effettuata in porto franco.

GARANZIA

La B.F.E. s.p.a. garantisce tutti i suoi prodotti da difetti di materiale e/o lavorazione nelle condizioni di esercizio, previste delle norme per un periodo, salvo patto contrario, di un anno dalla data di spedizione. La responsabilità delle B.F.E. s.p.a. si riferiscono soltanto all'eventuale sostituzione gratuita della parti o prodotti difettosi, sempreché siano stati osservati i termini di cui sopra e l'impiego secondo quanto previsto dalle norme, comunque solo dopo la restituzione della merce difettosa.

RECLAMI E CANCELLAZIONI ORDINI

Nessun reclamo verrà preso in considerazione trascorsi dieci giorni dal ricevimento della merce. Le cancellazioni parziali o totali degli ordini, potranno essere accettate solo quando preventivamente concordate e confermate per iscritto, e comunque non oltre 15 giorni dalla data degli ordini.

Per ogni controversia Foro competente è quello di Bergamo.

FORGED VALVE

ABBREVIATIONS	DESCRIPTION	DESCRIZIONE
BB	Bolted Bonnet	Coperchio bullonato
BBRJ	Bolted Bonnet Ring Joint Type	Coperchio bullonato tipo Ring Joint
BEL	Belows Sealed	Soffietto di tenuta
BW	Butt Weld	Saldatura di testa
CRY	Cryogenic Service	Servizio Criogenico
FB	Full Port	Passaggio Pieno
FF SM. F	Flat Face Smooth Finish	Faccia Piana Finitura Liscia
FF ST. F	Flat Face Stock Finish	Faccia Piana Finitura Fonografica o Concentr.
FLG	Integral Flanges	Flange Integrali
FP	Full Penetration	Piena Penetrazione
FPWB	Welded Bonnet Full Penetration	Coperchio Saldato Piena Penetrazione
IS	Inside Screw	Vite Interna
L.G.	Large Groove	Incastro femmina largo
MF	Male - Extended Body	Maschio - Femmina
NEED - INT	Integral Needle	Spillo Integrato
NEED - LOO	Loose Needle	Spillo Snodato
NPT	Threaded	Filettato
OS & Y	Outside Screw & Yoke	Vite Esterna
RB	Reduced Port	Passaggio Ridotto
RF SM. F	Raised Faced Smooth Finish	Faccia con Rialto Finitura Liscia
RF ST. F	Raised Faced Stock Finish	Faccia con Rialto Finit. Fonograf. o Concentr.
RJ	Ring Joint	Anello di Giunzione
SM. GR.	Small Groove	Incastro femmina stretto
SW	Socket Weld	Tasca a Saldare
SWB	Seal Welded Bonnet	Coperchio filettato con saldatura di sigillo
WB	Welded Bonnet	Coperchio Saldato
WFLG	Welded Flanges	Flange Saldate
*	Stainless	Stellitato

TEST CERTIFICATE

HEAD OFFICE-FORGED VALVE PLANT
Via Tibiale 70/A - 24061 Albarno S. Alessandro (BG) Italy
Phone 035.584.111 (16 lines i.a.)
Telex 035.589022

CUNADO INTERNACIONAL, S.A.
CTRA. DE DAGANZO KM. 2.400
28806 ALCALA DE HENARES
SPAIN

	PARTIAL ORDER	BALANCE ORDER
1	1	1
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100	100	100

X	API 598
	BS 6755

X	EN 10204 3.1B
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CHEMICAL ANALYSIS

MATERIAL TESTED				TEST			COMPONENT		CHEMICAL ANALYSIS														
ITEM	QTY	PART N.	DESCRIPTION	PSI	TEST		BAR	HEAT CODE MATERIAL HEAT NR SUPPLIER	% % % % % % % % % % % %														
					HYDROSTATIC SHELL	SEATS			TENSILE N/mm2	YIELD N/mm2	ELONGATION %	RED.OF AREA %	IMPACT TEST			TEST			HARDNESS		C.E.		
				X					1 JOULE	2 JOULE	3 JOULE	TEMP °C	HB	HB									
180	5	187675	GLOBE VALVE OS&Y BB FB	5625	4125	100	BODY	C	MN	SI	P	S	CR	MO									
			15H 305B/BW160 BW.SCH.160				ZCI F22 CL3		0,120	0,430	0,340	0,011	0,014	2,120	0,910								
			1" F22/CR13* 1500 LBS				5190 VALBRUNA		645,00	531,00	26,00	74,60											
			V481				BONNET	C	MN	SI	P	S	CR	MO									
			COMPONENT KEY VAR 66014433				ZCR F22 CL3		0,110	0,410	0,390	0,008	0,008	2,130	0,920								
200			MAT.NO.1044048				5402 VALBRUNA		562,00	404,00	31,40	75,40											
	2	138239	PISTON CHECK VALVE BB FB SPRING LOAD.	2975	2175		BODY	C	MN	SI	P	S	CR	NI	MO								
			H 405AT + M SW				ALZ A105N		0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018					
			1" A105N./CR13* 800 LBS				279735 RIVA		517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00					0,387	
			RV355				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB						
220			COMPONENT KEY VAR 66413254				AOE A105N		0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019						
			MAT.NO.1047265				370051 RIVA		516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30					0,413	
							BODY	C	MN	SI	P	S	CR	NI	CU	V	NB						
							APS A105N		0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020						
							03/71154 RIVA		501,00	323,00	30,20	56,10	53,00	65,00	67,00	+20	151,33					0,390	
230	2	094035	GATE VALVE OS&Y BB RB FLG	450	315	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB						
			L1 104A SM.F RF5M.F				APS A105N		0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020						
			3/4" A105N./CR13 150 LBS				03/71154 RIVA		501,00	323,00	30,20	56,10	53,00	65,00	+20	151,33					0,390		
			COMPONENT KEY VAR 24003231				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB					
			MAT.NO.1011120				ARC A105N		0,200	0,980	0,190	0,020	0,020	0,120	0,060	0,010	0,240	0,020	0,002				
240	42	094037	GATE VALVE OS&Y BB RB FLG	450	315	100	BODY	C	MN	SI	P	S	CR	NI	MO	+20	156,00					0,413	
			L1 105A SM.F RF5M.F				ALZ A105N		0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018					
			1" A105N./CR13 150 LBS				279735 RIVA		517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00					0,387	
			COMPONENT KEY VAR 24003231				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	<					
			MAT.NO.1009866				AOX A105N		0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,010					
240	3	148481	GATE VALVE OS&Y BB FB	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB						
			H 107C/T SW				APS A105N		500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33					0,435	
							03/71153 RIVA																
							BODY	C	MN	SI	P	S	CR	NI	CU	V	NB						
							APS A105N		0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020						
						03/71154 RIVA		501,00	323,00	30,20	56,10	53,00	65,00	67,00	+20	151,33					0,390		
TEST RESULT				date	third	authority	client	inspector	INSPECTION DEPT. B.F.E. S.A. BONNEY FOR VALVE LICENSEE DAVID DEPT. E.A. S.A.													date	
hydrostatic and pneumatic test:				SATISFACTORY													23/12/03						

TEST CERTIFICATE

(DECLARATION OF CONFORMITY)

SEDE LEGALE
Via A. Volta, n°4
39100 Bolzano (ITALY)

F.E. S.p.A.
BONNEY FORGE
VALVE LICENSEE

HEAD OFFICE - FORGED VALVE PLANT
Via Bonaldi 70/4 - 24061 Albino S. Alessandro (BG) Italy
Phone 035 364.111 (16 linee r.a.)
Telex 320336

CUSTOMER

CUNADO INTERNACIONAL, S.A.
CTRA. DE DAGANZO KM. 2,400
28806 ALCALA DE HENARES
SPAIN

YOUR PURCHASE ORDER N.
3697

DATE

25/02/2003

☒ PARTIAL ORDER
☐ BALANCE ORDER

X EN 10204 3.1B

X API 598
BS 6755

OUR JOB N.

030408

REMARKS:

MATERIAL TESTED

PSI TEST BAR
☒ X

HYDROSTATIC SEATS
SHELL SEATS

PNEUM SEATS

COMPONENT
HEAT CODE MATERIAL
HEAT NR SUPPLIER

ASTM A105 MIN.
MAX.
MIN.
MAX.

ITEM QTY PART N. DESCRIPTION

TENSILE YIELD N/mm² C MN

0,350 1,050 0,600
485,00 250,00

RED OF AREA %

0,040 0,035 0,040
30,00 22,00

ELONGATION %

0,100 0,350 0,100
0,350 0,400 0,400

IMPACT TEST 1 JOULE 2 JOULE 3 JOULE

0,400 0,400 0,400

TEST TEMP °C

0,300 0,300 0,300

HARDNESS HB HB

0,120 0,120 0,120

C.E.

0,050 0,050 0,050

0,020 0,020 0,020

187,00 187,00 187,00

1,000 1,000 1,000

1,500 1,500 1,500

156,00 156,00 156,00

207,00 207,00 207,00

2,000 2,000 2,000

0,870 0,870 0,870

1,130 1,130 1,130

156,00 156,00 156,00

207,00 207,00 207,00

date

23/12/03

INSPECTION DEPT.

BONNEY FORGE S.p.A. LICENSEE

FORGED VALVE PLANT

ALBINO S. ALESSANDRO

BOZZOLA

GENERAL SALES CONDITION

WARRANTY

All B.F.E. products are warranted to be free from manufacturing defects for a period of one (1) year from date of shipment, and any found to be defective within that period will be replaced without charge, provided (1) that the product was used as recommended and in accordance with approved installation and operating practice, (2) that its failure resulted from a manufacturing defect and not from damage due to corrosive, abrasive, or other wear normally to be expected in the services involved, (3) that the product was not modified or changed (unless written approval was given by B.F.E.) and (4) that written notice of such defect is delivered to B.F.E. during such one (1) year period. No labor cost or other expense or liability will be assumed.

PARTIAL SHIPMENT AND PAYMENTS

B.F.E. reserves the right to make partial shipment from time to time, and to tender invoices therefor which shall be due and payable as provided in said invoices. If the Purchaser becomes overdue in any such partial payment, B.F.E. shall be entitled to suspend work and/or avail itself of other legal remedies.

DELAYS

All promises of shipments from are estimated as closely as possible, and we will use our best effort to ship within the time promised but do not guarantee to do so, and assume no liability for not doing so. Materials stated to be in stock are subject to prior sale.

RETURN OF MATERIAL

No product of our manufacture may be returned without written consent. All goods returned are subject to a handling charge plus freight in both directions and charges for any required reconditioning, unless otherwise specified in writing by B.F.E.

PATENTS

The Purchaser will indemnify and hold harmless B.F.E. against and from any claims, costs (including attorneys fees) and liabilities arising out of any suit alleging infringement of any United States patent by any product supplied by B.F.E. under the contract and made in accordance with the design and/or specification furnished by the Purchaser to B.F.E.

FORCE MAJEURE

Any delays in or failure of performance of B.F.E. shall not constitute default or give rise to any claims for damages if and to the extent that such delay or failure is caused by occurrences beyond the control of B.F.E., including, but not limited to: acts of God or the public enemy, expropriation or confiscation of facilities, compliance with any order or request of any governmental authority, acts of war, rebellion or sabotage resulting therefrom: embargoes or other export restrictions, fires, floods, explosions, accidents, breakdowns, riots or strikes or other concerted acts of workmen, whether direct or indirect, or any other causes whether or not of same class or kind as those specifically above named which are not within the control of B.F.E. and which, by the exercise of reasonable diligence, B.F.E. is unable to prevent or provide against.

CLAIMS AND ORDER CANCELLATIONS

Claims will be considered only if made in writing 10 days from receipt of goods. Partial or complete cancellations of order can be accepted only upon previous agreement or by written consent and, in no case later than 15 days from order date.

Any claims or disputes will be referred to the Court of Bergamo.

CONDIZIONI GENERALI DI VENDITA

VALIDITA' DELL'OFFERTA

La merce è sempre resa "Franco Fabbrica", salvo patto contrario.

CONSEGNA MATERIALI

La B.F.E. s.p.a. non assume alcuna responsabilità per ritardi nelle consegne che s'intendono sempre indicative e non vincolanti. I rischi dovuti al trasporto della merce sono a carico del destinatario anche nel caso che la spedizione sia effettuata in porto franco.

GARANZIA

La B.F.E. s.p.a. garantisce tutti i suoi prodotti da difetti di materiale e/o lavorazione nelle condizioni di esercizio, previste dalle norme per un periodo, salvo patto contrario, di un anno dalla data di spedizione. La responsabilità della B.F.E. s.p.a. si riferisce soltanto all'eventuale sostituzione gratuita delle parti o prodotti difettosi, sempreché siano stati osservati i termini di cui sopra e l'impiego secondo quanto previsto dalle norme, comunque solo dopo la restituzione della merce difettosa.

RECLAMI E CANCELLAZIONI ORDINI

Nessun reclamo verrà preso in considerazione trascorsi dieci giorni dal ricevimento della merce. Le cancellazioni parziali o totali degli ordini, potranno essere accettate solo quando preventivamente concordate e confermate per iscritto, e comunque non oltre 15 giorni dalla data degli ordini. Per ogni controversia Foro competente è quello di Bergamo.

FORGED VALVE

ABBREVIATIONS	DESCRIPTION	DESCRIZIONE
BB	Boiled Bonnet	Coperchio bullonato
BBRJ	Boiled Bonnet Ring Joint Type	Coperchio bullonato tipo Ring Joint
BEL	Belows Sealed	Soffietto di tenuta
BW	Butt Weld	Saldataura di testa
CRY	Cryogenic Service	Servizio Criogenico
FB	Full Port	Passaggio Pieno
FF SM. F	Flat Face Smooth Finish	Faccia Piana Finitura Liscia
FF ST. F	Flat Face Stock Finish	Faccia Piana Finitura Fonografica o Concentr.
FLG	Integral Flanges	Flange Integrali
FR	Full Penetration	Piena Penetrazione
FPWB	Welded Bonnet Full Penetration	Coperchio Saldato Piena Penetrazione
IS	Inside Screw	Vite Interna
L.G.	Large Groove	Incastro femmina largo
MF	Male - Extended Body	Maschio - Femmina
NEED - INT NEED - LOO NPT	Integral Needle Loose Needle Threaded	Spillo Integrale Spillo Snodato Filettato
OS & Y	Outside Screw & Yoke	Vite Esterna
RB	Reduced Port	Passaggio Ridotto
RF SM. F	Raised Faced Smooth Finish	Faccia con Rialto Finitura Liscia
RF ST. F	Raised Faced Stock Finish	Faccia con Rialto Finit. Fonograf. o Concentr.
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SW	Socket Weld	Tasca a Saldare
SWB	Seal Welded Bonnet	Coperchio filettato con saldataura di sigillo
WB	Welded Bonnet	Coperchio Saldato
WFLG	Welded Flanges	Flange Saldate
*	Stallited	Stellitato