



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

SEDE LEGALE
Via A. Volta, 12
31040 BIELLA (ITALIA)

HEAD OFFICE - FORGED VALVE PLANT
Via Roma 70A - 20021 Abbiategrasso (BG) Italy
Tel. 0362 500011 (10 lines) Fax 0362 500012
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YOUR PURCHASE ORDER NO.

3697

OUR JOB NO.

030408

REMARKS

DATE

25.02.03

☒ PARTIAL ORDER

☐ BALANCE ORDER

TEST CERTIFICATE (DECLARATION OF CONFORMITY)

N. 4208/03

CUSTOMER

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

AGE 3 OF

CODE 2202

☒ API 598
☒ BS 6755
EN 10204 3.1.B

CHEMICAL ANALYSIS

MATERIAL TESTED				TEST				COMPONENT	MECHANICAL PROPERTIES										HARDNESS HB	C.E.
ITEM	Q.TY	PART. N.	DESCRIPTION	☒	HYDROSTATIC		BAR		TENSILE N/mm2 C	ELONGATION RED. OF AREA %			IMPACT TEST 1 JOULE		TEST TEMP °C					
					SHELL	SEATS				PSI	SEATS	PNEUM.	MIN	SI	P	S	CR	NI		
120	S650	10 154341	COMPONENT KEY VAR 24006554 MAT.NO. 1041464	☒	2975	2175	100	BONNET	0,050	1,490	0,025	0,002	17,100	9,000	0,390					
								SRR	547,00	250,00	68,30									
								BODY	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								408647 VALBRUNA	C	547,00	250,00	68,30								
140	S652	1 170432	COMPONENT KEY VAR 24006584 MAT.NO. 1041099	☒	2975	2175	100	BONNET	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								BODY	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								408647 VALBRUNA	C	547,00	250,00	68,30								
50	V650	1 186110	COMPONENT KEY VAR 66016554 MAT.NO. 1041085	☒	2175	1585	100	BONNET	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								BODY	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								408647 VALBRUNA	C	547,00	250,00	68,30								
70	S653	9 186114	COMPONENT KEY VAR 24006551 MAT.NO. 1043948	☒	5400	3960	100	BONNET	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								BODY	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								408647 VALBRUNA	C	547,00	250,00	68,30								
90	S650	5 186133	COMPONENT KEY VAR 24006554 MAT.NO. 1041874	☒	5400	3960	100	BONNET	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								BODY	C	0,050	1,490	0,025	0,002	17,100	9,000	0,390				
								SRR	547,00	250,00	68,30									
								408647 VALBRUNA	C	547,00	250,00	68,30								

TEST RESULT

HYDROSTATIC AND
PNEUMATIC TEST

SATISFACTORY

THIRD AUTHORITY

DATE

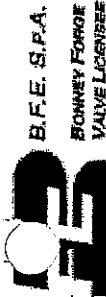
CLIENT INSPECTOR

DATE

INSPECTOR 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

HEAD OFFICE - FORGED VALVE PLANT
Via Ind. 204, 11101 Biadene S. Alessandro (BG) Italy
Tel. 035 234.111 (11 lines ex.)
Fax 035 234.2222

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

(DECLARATION OF CONFORMITY)

N. 4208/03

SE 7 OF

CUSTOMER

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API 598

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EN 10204 3.1 B

TEST

MATERIAL TESTED

COMPONENT

CHEMICAL ANALYSIS

ITEM	Q.TY	PART. N.	DESCRIPTION	TEST				MECHANICAL PROPERTIES				HARDNESS			
				☒ PSI	HYDROSTATIC	SHELL	SEATS	BAR	TENSILE N/mm2	YIELD N/mm2	ELONGATION RED. OF AREA %	IMPACT 1 JOULE	IMPACT 2 JOULE	3 JOULE	TEST. TEMPI °C

ACCORDING TO ASTM A182 SPECIFICATIONS: TEMP.
1080° C 1 HOUR EACH INCH THICKNESS WATER QUENCHING TO ROOM TEMPERATURE.

- F321-H MATERIAL HAS BEEN SOLUTION ANNEALED AND
STABILIZED ACC. TO ASTM A182: SOLUBILIZATION AT
1095° C MIN. 1 HOUR/INCH FOLLOWED BY W. QUENCH
STABILIZATION AT 815-870° C COOLING IN AIR.

MECHANICAL PROPERTIES

TEST. TEMPI °C

TENSILE
N/mm2

YIELD
N/mm2

ELONGATION RED. OF AREA
%

IMPACT
1 JOULE

IMPACT
2 JOULE

3 JOULE

TEST. TEMPI
°C

HARDNESS
HB

HARDNESS
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

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 attorney's 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 delay 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, 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, epidemics, accidents, breakdowns, riots or strikes or other concerted acts of workmen, whether direct or indirect, or any other causes, whether or not named, and of 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 "Fanco 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 nella condizione di esercizio, previste dalle norme per un periodo, salvo patto contrario, di un anno dalla data di spedizione. Le responsabilità della B.F.E. s.p.a. si riferiscono 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	Saldatura di testa
CRY	Cryogenic Service	Servizio Criogenico
FB	Full Port	Passaggio Pieno
FF SM. F	Flat Face Smooth Finish	Faccie Piana Finitura Liscia
FF ST. F	Flat Face Stock Finish	Faccie Piana Finitura Fonografica o Concentric
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 Smodato
NPT	Threaded	Fillettato
OS & Y	Outside Screw & Yoke	Vite Esterna
RB	Reduced Port	Passaggio Ridotto
RF SM. F	Raised Faced Smooth Finish	Faccie con Rilevato Finitura Liscia
RF ST. F	Raised Faced Stock Finish	Faccie con Rilevato Finit. Fonograf. o Concentric
RJ	Ring Joint	Anello di Giunzione
SM. GH.	Small Groove	Incastro femmina stretto
SW	Socket Weld	Tasca a Saldare
SWB	Seal Welded Bonnet	Coperchio fillettato con saldatura di sigillo
WB	Welded Bonnet	Coperchio Saldato
WFLG	Welded Flanges	Flange Saldate
*	Stellited	Stellitato