TEST CERTIFICATE

(DECLARATION OF CONFORMITY)

N. 4207/03

B.F.E. S.p.A.
BONNEY FORGE VALVE LICENSEE
SEDE LEGALE
via A.Volta, n°4
35100 Bolzano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT
Via Torrente 100A - 24061 Albano S. Alessandro (BG) Italy

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697

DATE: 25.02.03

[X] PARTIAL ORDER
[ ] BALANCE ORDER

OUR JOB NO.: 030408

REMARKS:

[X] API 598
[ ] BS 6755
[X] EN 10204 3. 1. B

MATERIAL TESTED				TEST [X] PSI [ ] BAR			COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS / MECHANICAL PROPERTIES											
				HYDROSTATIC		PNEUM.				%	%	%	%	%			%	%	
ITEM	Q.TY	PART. N.	DESCRIPTION	SHELL	SEATS	SEATS		TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.
			3/4" A105N./CR13* 600 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			S354 COMPONENT KEY VAR 24003251				AIS A105N	0,205	1,010	0,230	0,018	0,023	0,090	0,050	0,010	0,240	0,025	0,001
			MAT.NO. 1058683				77586 RIVA	500,00	313,00	40,00	59,20	58,00	60,00	68,00	+20	158,00	.	0,417
8 260	1	095543		2225	1630	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB	
			GATE VALVE OS&Y BB RB FLG				ALS A105N	0,190	0,900	0,190	0,011	0,007	0,110	0,050	0,170	0,018	0,000	
			L6 105A SM.F RFSM.F				77027 RIVA	496,00	332,00	35,60	55,00	123,00	111,00	118,00	+20	141,30	.	0,379
			1" A105N./CR13* 600 LBS				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
			S354 COMPONENT KEY VAR 24003251				AOE A105N	0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000	
			MAT.NO. 1053739				370051 RIVA	516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30	.	0,413
8 300	8	187438		5625	4125	100	BONNET	C	MN	SI	P	S	CR	MO				
			GATE VALVE OS&Y BB FB				ZER F22	0,090	0,460	0,390	0,016	0,002	2,340	0,940				
			15H 105B/BW80 + LV06 BW.SCH.80				408714 VALBRUNA	570,00	452,00	22,50	40,00	135,00	128,00	130,00	-20	173,30	.	.
			1" F22/CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	MO				
			S491 COMPONENT KEY VAR 24054433				ZEV F22	0,100	0,500	0,310	0,007	0,001	2,310	0,990				
			MAT.NO. 1057862				45952 BUDERUS	526,00	330,00	33,40	77,00	.	.	.	.	160,00	.	.
8 320	2	076920		2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GLOBE VALVE OS&Y BB RB				AHS A105N	0,195	0,960	0,210	0,011	0,020	0,050	0,050	0,010	0,160	0,023	0,000
			HL 305A/T SW				73405 RIVA	489,00	326,00	28,00	59,00	83,00	89,00	87,00	+20	140,30	.	0,385
			1" A105N./CR13* 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			V305 COMPONENT KEY VAR 66013254				AIE A105N	0,185	1,050	0,170	0,017	0,020	0,120	0,060	0,010	0,190	0,018	0,000
			MAT.NO. 1046744				76364 RIVA	511,00	343,00	35,10	53,00	67,00	55,00	53,00	+20	143,00	.	0,405
8 340	3	186957		5625	4125		BONNET	C	MN	SI	P	S	CR	MO				
			PISTON CHECK VALVE BB FB SPRING LOAD.				ZER F22	0,090	0,460	0,390	0,016	0,002	2,340	0,940				
			15H 405A/BW80 + M BW.SCH.80				408714 VALBRUNA	570,00	452,00	22,50	40,00	135,00	128,00	130,00	-20	173,30	.	.
			1" F22/CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	MO				
			RV491 COMPONENT KEY VAR 66414433				ZEV F22	0,100	0,500	0,310	0,007	0,001	2,310	0,990				
			MAT.NO. 1057863				45952 BUDERUS	526,00	330,00	33,40	77,00	.	.	.	.	160,00	.	.
8 50	57	091224		2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB	
			GATE VALVE OS&Y BB FB				AOX A105N	0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,000	
			H 103A/T SW				03/71153 RIVA	500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33	.	0,435

TEST RESULT

HYDROSTATIC AND SATISFACTORY

THIRD AUTHORITY | DATE | CLIENT INSPECTOR | DATE | INSPECTION DEPT. | DATE

B.F.E. S.p.a.
BONNEY FORGE VALVE LICENSEE
QA/QC Dtp

25/07/03
E. AZZOLA

TEST CERTIFICATE

(DECLARATION OF CONFORMITY)

N. 4207/03 — PAGE 6 OF 12

B.F.E. S.p.A.
BONNET FORGE VALVE LICENSEE
SEDE LEGALE
Via A. Volta, n°4
39100 Bolzano (ITALY)
HEAD OFFICE - FORGED VALVE PLANT
Via Tosella 73/A - 24021 Albano S. Alessandro (BG) Italy

CUSTOMER: 2202

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

YOUR PURCHASE ORDER NO.: 3697
DATE: 25.02.03
[X] PARTIAL ORDER [ ] BALANCE ORDER
OUR JOB NO.: 030408
REMARKS:
[X] API 598 [ ] BS 6755 [X] EN 10204 3. 1. B

ITEM	Q.TY	PART. N.	DESCRIPTION	TEST [X] PSI [ ] BAR HYDROSTATIC SHELL	SEATS	PNEUM. SEATS	COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS / MECHANICAL PROPERTIES										
									%	%	%	%	%			%	%	
								TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.
100	5	135578		5575	4075	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GATE VALVE OS&Y BB FB				AHH SA105N	0,210	0,920	0,200	0,012	0,020	0,060	0,080	0,010	0,160	0,018	0,000
			9H 104B/T SW				73362 RIVA	495,00	321,00	35,00	65,00	45,00	41,00	55,00	+20	145,00	.	0,396
			3/4" SA105N./CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		S330	COMPONENT KEY VAR 24003374				AHS SA105N	0,195	0,960	0,210	0,011	0,020	0,050	0,050	0,010	0,160	0,023	0,000
			MAT.NO. 1040882				73405 RIVA	489,00	326,00	28,00	59,00	83,00	89,00	87,00	+20	140,30	.	0,385
							BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
							ALX SA105N	0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000
							279737 RIVA	522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00	.	0,413
110	2	135580		5575	4075	100	BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GATE VALVE OS&Y BB FB				ACA SA105N	0,180	0,890	0,200	0,017	0,023	0,150	0,080	0,010	0,250	0,002	0,000
			9H 107C/T SW				74347 RIVA	493,00	326,00	38,00	60,00	133,00	146,00	151,00	+20	157,40	.	0,382
			1 1/2" SA105N./CR13* 1500LBS				BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		S330	COMPONENT KEY VAR 24003374				CHZ SA105N	0,195	0,960	0,170	0,025	0,025	0,140	0,100	0,010	0,250	0,002	0,000
			MAT.NO. 1040033				70491 TANARO	520,00	320,00	27,40	55,90	.	.	.	.	149,00	.	0,408
120	17	187672		5625	4125	100	BONNET	C	MN	SI	P	S	CR	MO				
			GATE VALVE OS&Y BB FB				LPT F11 CL.2	0,105	0,410	0,700	0,013	0,001	1,330	0,460				
			15H 105B/BW80 BW.SCH.80				408701 VALBRUNA	522,00	391,00	36,00	58,00	98,00	84,00	93,00	+20	169,70	.	.
			1" F11/CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	MO				
		S420	COMPONENT KEY VAR 24004323				LRC F11 CL.2	0,120	0,420	0,610	0,006	0,001	1,360	0,520				
			MAT.NO. 1047791				43007 BUDERUS	552,00	376,00	27,40	68,60	.	.	.	.	172,00	.	.
150	2	187673		5625	4125	100	BONNET	C	MN	SI	P	S	CR	MO				
			GATE VALVE OS&Y BB FB				ZCR F22 CL3	0,110	0,410	0,390	0,008	0,008	2,130	0,920				
			15H 105C/BW160 BW.SCH.160				5402 VALBRUNA	562,00	404,00	31,40	75,40	.	.	.	.	163,00	.	.
			1" F22/CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	MO				
		S481	COMPONENT KEY VAR 24004433				ZEV F22	0,100	0,500	0,310	0,007	0,001	2,310	0,990				
			MAT.NO. 1041635				45952 BUDERUS	526,00	330,00	33,40	77,00	.	.	.	.	160,00	.	.
180	1	187675		5625	4125	100	BONNET	C	MN	SI	P	S	CR	MO				
			GLOBE VALVE OS&Y BB FB				ZER F22	0,090	0,460	0,390	0,016	0,002	2,340	0,940				
			15H 305B/BW160 BW.SCH.160				408714 VALBRUNA	570,00	452,00	22,50	40,00	135,00	128,00	130,00	-20	173,30	.	.

TEST RESULT: HYDROSTATIC AND SATISFACTORY

THIRD AUTHORITY — DATE

CLIENT INSPECTOR — DATE

INSPECTION DEPT. — DATE

B.F.E. S.p.a.
BONNEY FORGE VALVE LICENSEE
QA/QC Dtp
23/07/03
E. AZZOLA

TEST CERTIFICATE

(DECLARATION OF CONFORMITY)

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 Tortona 73/A - 15011 Alzano S. Alessandro (AL) Italy

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697

DATE: 25.02.03

[X] PARTIAL ORDER
[ ] BALANCE ORDER

OUR JOB NO.: 030408

REMARKS:

[X] API 598
[ ] BS 6755
[X] EN 10204 3. 1. B

ITEM	Q.TY	PART. N.	DESCRIPTION	TEST [X] PSI [ ] BAR HYDROSTATIC SHELL	SEATS	PNEUM. SEATS	COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.
			1" F22/CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	MO				
			V481 COMPONENT KEY VAR 66014433				ZEV F22	0,100	0,500	0,310	0,007	0,001	2,310	0,990				
			MAT.NO. 1044048				45952 BUDERUS	526,00	330,00	33,40	77,00	.	.	.	.	160,00	.	.
8	210	7	187676	5625	4125		BONNET	C	MN	SI	P	S	CR	MO				
			PISTON CHECK VALVE BB FB SPRING LOAD.				LRA F11	0,120	0,540	0,570	0,008	0,001	1,230	0,540				
			15H 405A/BW80 + M BW.SCH.80				41358 BUDERUS	510,00	391,00	34,00	68,50	.	.	.	.	161,70	.	.
			1" F11/CR13* 1500 LBS				BODY	C	MN	SI	P	S	CR	MO				
			RV472 COMPONENT KEY VAR 66414323				LRC F11 CL.2	0,120	0,420	0,610	0,006	0,001	1,360	0,520				
			MAT.NO. 1047792				43007 BUDERUS	552,00	376,00	27,40	68,60	.	.	.	.	172,00	.	.
8	60	11	089939	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GATE VALVE OS&Y BB FB				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000
			H 104A/T SW				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00	.	0,387
			3/4" A105N./CR13* 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
			S306 COMPONENT KEY VAR 24003254				AOX A105N	0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,000	
			MAT.NO. 1046974				03/71153 RIVA	500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33	.	0,435
8	80	12	091225	2975	2175	100	BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GATE VALVE OS&Y BB FB				ALX A105N	0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000
			H 105A/T SW				279737 RIVA	522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00	.	0,413
			1" A105N./CR13* 800 LBS				BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			S306 COMPONENT KEY VAR 24003254				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000
			MAT.NO. 1046727				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00	.	0,387
8	270	4	148338	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GATE VALVE OS&Y BB FB				AAF A105N	0,170	0,900	0,210	0,017	0,020	0,080	0,050	0,010	0,140	0,003	0,000
			H 107C/T SW				73658 RIVA	508,00	302,00	36,60	55,90	42,00	45,00	51,00	+20	142,00	.	0,350
			1 1/2" A105N./CR13* 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			S306 COMPONENT KEY VAR 24003254				ALX A105N	0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000
			MAT.NO. 1053142				279737 RIVA	522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00	.	0,413
8	100	3	135578	5575	4075	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
			GATE VALVE OS&Y BB FB				AHH SA105N	0,210	0,920	0,200	0,012	0,020	0,060	0,080	0,010	0,160	0,018	0,000
			9H 104B/T SW				73362 RIVA	495,00	321,00	35,00	65,00	45,00	41,00	55,00	+20	145,00	.	0,396

TEST RESULT

HYDROSTATIC AND SATISFACTORY

THIRD AUTHORITY DATE

CLIENT INSPECTOR DATE

INSPECTION DEPT. DATE

B.F.E. S.p.a.
BONNEY FORGE VALVE LICENSEE
QA/QC. Dtp

25/07/03

E. AZZOLA

B.F.E. S.p.A.
BONNEY FORGE VALVE LICENSEE
SEDE LEGALE
Via A. Volta, n°4
20100 Milano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT
Via Nuova 7004 - 24011 Alzano S. Alessandro (BG) Italy

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

N. 4207/03 — PAGE 9 OF 12

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697
DATE: 25.02.03
[X] PARTIAL ORDER
[ ] BALANCE ORDER
OUR JOB NO.: 030408
REMARKS:
[X] API 598
[ ] BS 6755
[X] EN 10204 3. 1. B

MATERIAL TESTED				TEST [X] PSI [ ] BAR			COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS / MECHANICAL PROPERTIES											
ITEM	Q.TY	PART. N.	DESCRIPTION	HYDROSTATIC SHELL	HYDROSTATIC SEATS	PNEUM. SEATS		TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.
		1" A105N./CR13 800 LBS					BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
		RV350	COMPONENT KEY VAR 66413234				AOE A105N	0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000	
			MAT.NO. 1041143				370051 RIVA	516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30	.	0,413
8	200	3 138239		2975	2175		BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		PISTON CHECK VALVE BB FB SPRING LOAD.					ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000
		H 405A/T + M SW					279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00	.	0,387
		1" A105N./CR13* 800 LBS					BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
		RV355	COMPONENT KEY VAR 66413254				AOE A105N	0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000	
			MAT.NO. 1047265				370051 RIVA	516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30	.	0,413
8	330	1 128648		5575	4075	100	BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		GLOBE VALVE OS&Y BB FB					ALX A105N	0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000
		9H 305B/T SW					279737 RIVA	522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00	.	0,413
		1" A105N./CR13* 1500 LBS					BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		V305	COMPONENT KEY VAR 66013254				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000
			MAT.NO. 1041411				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00	.	0,387
8	310	1 076311		2975	2175	100	BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		GLOBE VALVE OS&Y BB RB					AFV A105N	0,180	0,960	0,220	0,013	0,020	0,080	0,060	0,010	0,190	0,018	0,000
		HL 304A/T SW					72300 RIVA	532,00	352,00	37,70	67,30	188,00	162,00	196,00	+20	145,00	.	0,377
		3/4" A105N./CR13 800 LBS					BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
		V350	COMPONENT KEY VAR 66013234				AIE A105N	0,185	1,050	0,170	0,017	0,020	0,120	0,060	0,010	0,190	0,018	0,000
			MAT.NO. 1041237				76364 RIVA	511,00	343,00	35,10	53,00	67,00	55,00	53,00	+20	143,00	.	0,405
								STANDARD MATERIAL SPECIFICATION:										
							.	.	.	—	------	------	------	------	.	.	.	.
								C	MN	P	S	SI	CU	NI	CR	MO	V	NB
							.	.	.	.	.	.	.	.	.	.	.	.
							ASTM A105 MIN.		0,600			0,100						
							MAX.	0,350	1,050	0,035	0,040	0,350	0,400	0,400	0,300	0,120	0,050	0,020
							MIN.	485,00	250,00	22,00	30,00	.	.	.	.	.	.	.

TEST RESULT
HYDROSTATIC AND PNEUMATIC: SATISFACTORY

THIRD AUTHORITY — DATE
CLIENT INSPECTOR — DATE
INSPECTION DEPT. — DATE

B.F.E. S.p.a.
BONNEY FORGE VALVE LICENSEE
QA/QC. Dtp
23/07/03
E. AZZOLA

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

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

HEAD OFFICE-FORGED VALVE PLANT
Via Tiziano 70/A - 24044 Alzano S. Alessandro (BG) Italy

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

N. 4207/03 — PAGE 9 OF 12

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697
DATE: 25.02.03
[X] PARTIAL ORDER [ ] BALANCE ORDER
OUR JOB NO.: 030408
REMARKS:
[X] API 598 [ ] BS 6755 [X] EN 10204 3. 1. B

MATERIAL TESTED				TEST [X] PSI [ ] BAR			COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS											
				HYDROSTATIC		PNEUM.				%	%	%	%	%			%	%	
								MECHANICAL PROPERTIES											
ITEM	Q.TY	PART. N.	DESCRIPTION	SHELL	SEATS	SEATS		TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.
	1" A105N./CR13 800 LBS						BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
	RV350		COMPONENT KEY VAR 66413234				AOE A105N	0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000	
			MAT.NO. 1041143				370051 RIVA	516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30	.	0,413
8 200	3	138239		2975	2175		BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	PISTON CHECK VALVE BB FB SPRING LOAD.						ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000
	H 405A/T + M SW						279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00	.	0,387
	1" A105N./CR13* 800 LBS						BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
	RV355		COMPONENT KEY VAR 66413254				AOE A105N	0,205	1,040	0,230	0,014	0,027	0,090	0,050	0,160	0,019	0,000	
			MAT.NO. 1047265				370051 RIVA	516,00	379,00	41,90	54,40	47,00	38,00	57,00	+20	150,30	.	0,413
8 330	1	128648		5575	4075	100	BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GLOBE VALVE OS&Y BB FB						ALX A105N	0,205	1,030	0,260	0,009	0,020	0,090	0,060	0,010	0,150	0,017	0,000
	9H 305B/T SW						279737 RIVA	522,00	332,00	32,40	54,80	54,00	51,00	57,00	+20	150,00	.	0,413
	1" A105N./CR13* 1500 LBS						BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	V305		COMPONENT KEY VAR 66013254				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	0,000
			MAT.NO. 1041411				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00	.	0,387
8 310	1	076311		2975	2175	100	BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GLOBE VALVE OS&Y BB RB						AFV A105N	0,180	0,960	0,220	0,013	0,020	0,080	0,060	0,010	0,190	0,018	0,000
	HL 304A/T SW						72300 RIVA	532,00	352,00	37,70	67,30	188,00	162,00	196,00	+20	145,00	.	0,377
	3/4" A105N./CR13 800 LBS						BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	V350		COMPONENT KEY VAR 66013234				AIE A105N	0,185	1,050	0,170	0,017	0,020	0,120	0,060	0,010	0,190	0,018	0,000
			MAT.NO. 1041237				76364 RIVA	511,00	343,00	35,10	53,00	67,00	55,00	53,00	+20	143,00	.	0,405
								STANDARD MATERIAL SPECIFICATION:										
							.	.	.	—	—	—	—	—	.	.	.	.
								C	MN	P	S	SI	CU	NI	CR	MO	V	NB
							.	.	.	.	.	.	.	.	.	.	.	.
							ASTM A105 MIN.		0,600			0,100						
							MAX.	0,350	1,050	0,035	0,040	0,350	0,400	0,400	0,300	0,120	0,050	0,020
							MIN.	485,00	250,00	22,00	30,00	.	.	.	.	.	.	.

TEST RESULT

HYDROSTATIC AND PNEUMATIC TEST: SATISFACTORY

THIRD AUTHORITY — DATE

CLIENT INSPECTOR — DATE

INSPECTION DEPT. — DATE

B.F.E. S.p.a.
BONNEY FORGE VALVE LICENSEE
QA/QC. Dtp

23/07/03
E. AZZOLA

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

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

HEAD OFFICE-FORGED VALVE PLANT
Via Tonale 70/A - 24041 Albano S. Alessandro (BG) Italy

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

N. 4207/03 PAGE 10 OF 1

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697
DATE: 25.02.03
[X] PARTIAL ORDER [ ] BALANCE ORDER
OUR JOB NO.: 030408
REMARKS:
[X] API 598 [ ] BS 6755 [X] EN 10204 3. 1. B

MATERIAL TESTED				TEST [X] PSI [ ] BAR			COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS											
				HYDROSTATIC		PNEUM.				%	%	%	%	%			%	%	
ITEM	Q.TY	PART. N.	DESCRIPTION	SHELL	SEATS	SEATS		MECHANICAL PROPERTIES											
								TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.
							MAX.	.	.	.	.	.	.	.	.	187,00	.	.
								C	MN	SI	P	S	CR	MO				
							ASTM A182 F11/2 MIN.	0,100	0,300	0,500			1,000	0,440				
							MAX.	0,200	0,800	1,000	0,040	0,040	1,500	0,650				
							MIN.	485,00	275,00	20,00	30,00	.	.	.	.	156,00	.	.
							MAX.	.	.	.	.	.	.	.	.	207,00	.	.
								C	MN	SI	P	S	CR	MO				
							ASTM A182 F22/3 MIN.	0,050	0,300				2,000	0,870				
							MAX.	0,150	0,600	0,500	0,040	0,040	2,500	1,130				
							MIN.	515,00	310,00	20,00	30,00	.	.	.	.	156,00	.	.
							MAX.	.	.	.	.	.	.	.	.	207,00	.	.

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 MANUFACTURACTURED IN ACCORDANCE WITH
CONFORMITY ASSESSMENT MODULE H AS APPROVED BY

TEST RESULT

HYDROSTATIC AND PNEUMATIC TEST: SATISFACTORY

THIRD AUTHORITY | DATE | CLIENT INSPECTOR | DATE | INSPECTION DEPT. | DATE

B.F.E. S.p.a.
BONNEY FORGE VALVE LICENSEE
QA/QC Dep.
23/07/03
F. AZZOLA

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

SEDE LEGALE
via A. Volta, n°4
35100 Bolzano (ITALY)

HEAD OFFICE - FORGED VALVE PLANT
Via Tonale 70/A - 24021 Albano S. Alessandro (BG) Italy

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

N. 4207/03 PAGE 11 OF 1

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697
DATE: 25.02.03
[X] PARTIAL ORDER
[ ] BALANCE ORDER

OUR JOB NO.: 030408
REMARKS:

[X] API 598
[ ] BS 6755
[X] EN 10204 3. 1. B

MATERIAL TESTED				TEST [X] PSI [ ] BAR			COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS											
				HYDROSTATIC		PNEUM.				%	%	%	%	%			%	%	
ITEM	Q.TY	PART. N.	DESCRIPTION	SHELL	SEATS	SEATS		MECHANICAL PROPERTIES											
								TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.	

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 MANUFACTURED 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 RESULT	THIRD AUTHORITY	DATE	CLIENT INSPECTOR	DATE	INSPECTION DEPT.	DATE
HYDROSTATIC AND PNEUMATIC TESTS: SATISFACTORY					B.F.E. S.p.a. BONNEY FORGE VALVE LICENSEE QA/QC Dep. E. AZZOLA	23/07/03

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

SEDE LEGALE
via A.Volta, n°4
20100 Bollate (ITALY)

HEAD OFFICE-FORGED VALVE PLANT
Via Tanaro 7/A - 24051 Albano S. Alessandro (BG) Italy

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

N. 4207/03 PAGE 12 OF 1

CUSTOMER 2202

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

YOUR PURCHASE ORDER NO.: 3697
DATE: 25.02.03
[X] PARTIAL ORDER
[ ] BALANCE ORDER

OUR JOB NO.: 030408
REMARKS:

[X] API 598
[ ] BS 6755
[X] EN 10204 3. 1. B

MATERIAL TESTED				TEST [X] PSI [ ] BAR			COMPONENT / HEAT CODE/MATERIAL / HEAT NR./SUPPLIER	CHEMICAL ANALYSIS										
				HYDROSTATIC		PNEUM.				%	%	%	%	%			%	%
ITEM	Q.TY	PART. N.	DESCRIPTION	SHELL	SEATS	SEATS		MECHANICAL PROPERTIES										
								TENSILE N/mm2	YELD N/mm2	ELOGATION %	RED. OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST. TEMP °C	HARDNESS HB	HB	C.E.

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	THIRD AUTHORITY	DATE	CLIENT INSPECTOR	DATE	INSPECTION DEPT.	DATE
HYDROSTATIC AND PNEUMATIC TEST: SATISFACTORY					B.F.E. S.p.a. BONNEY FORGE VALVE LICENSEE	23/07/03

DA/QC Mgr. F. AZZOLA

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 render 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 closey ad 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 indemnity 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 performace 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 workemen, 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.
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 BBRJ BEL BW	Bolted Bonnet Bolted Bonnet Ring Joint Type Bellows Sealed Butt Weld	Coperchio bullonato Coperchio bullonato tipo Ring Joint Soffietto di tenuta Saldatura di testa
CRY	Cryogenic Service	Servizio Criogenico
FB FF SM. F FF ST. F FLG F.P. FPWB	Full Port Flat Face Smooth Finish Flat Face Stock Finish Integral Flanges Full Penetration Welded Bonnet Full Penetration	Passaggio Pieno Faccia Piana Finitura Liscia Faccia Piana Finitura Fonografica o Concentr. Flange Integrali Piena Penetrazione 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 RF SM. F RF ST. F RJ	Reduced Port Raised Faced Smooth Finish Raised Faced Stock Finish Ring Joint	Passaggio Ridotto Faccia con Risalto Finitura Liscia Faccia con Risalto Finit. Fonograf. o Concentr. Anello di Giunzione
SM. GR. SW SWB	Small Groove Socket Weld Seal Welded Bonnet	Incastro femmina stretto Tasca a Saldare Coperchio filettato con saldatura di sigillo
WB WFLG	Welded Bonnet Welded Flanges	Coperchio Saldato Flange Saldate
*	Stellited	Stellitato

F.E. S.P.A.
BONNEY FORGE VALVE LICENSEE
SEDE LEGALE via A.Volta, n°4 39100 Bolzano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT
Via Tonale 70/A - 24061 Albano S. Alessandro (BG) Italy
Phone 035.584.111 (16 lines r.a.)
Telefax 035.583022

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

NUMBER 7375/03 | REVISION

CUSTOMER 2202

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

YOUR PURCHASE ORDER N. 3697 | DATE 25/02/2003 | X PARTIAL ORDER | BALANCE ORDER

OUR JOB N. 030408 | REMARKS:

X API 598 | BS 6755 | X EN 10204 3.1B

ITEM	QTY PART N. DESCRIPTION	PSI TEST HYDROSTATIC SHELL	SEATS	BAR PNEUM SEATS	COMPONENT HEAT CODE MATERIAL HEAT NR SUPPLIER	TENSILE N/mm2	YELD N/mm2	ELONGATION %	RED.OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST TEMP °C	HARDNESS HB	HB	C.E.
	MATERIAL TESTED	X				CHEMICAL ANALYSIS %	%	%	%	%	%	%	%	%	%	%
						MECHANICAL PROPERTIES										
180	5 187675	5625	4125	100	BODY	C	MN	SI	P	S	CR	MO				
	GLOBE VALVE OS&Y BB FB				ZCI F22 CL3	0,120	0,430	0,340	0,011	0,014	2,120	0,910				
	15H 305B/BW160 BW.SCH.160				5190 VALBRUNA	645,00	531,00	26,00	74,60					187,00		
	1" F22/CR13* 1500 LBS				BONNET	C	MN	SI	P	S	CR	MO				
	V481 COMPONENT KEY VAR 66014433				ZCR F22 CL3	0,110	0,410	0,390	0,008	0,008	2,130	0,920				
	MAT.NO.1044048				5402 VALBRUNA	562,00	404,00	31,40	75,40					163,00		
200	2 138239	2975	2175		BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	PISTON CHECK VALVE BB FB SPRING LOAD.				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	
	H 405A/T + M SW				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387
	1" A105N./CR13* 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB	
	RV355 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
220	2 094035	450	315	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB	
	GATE VALVE OS&Y BB RB FLG				APS A105N	0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020		
	L1 104A SM.F RFSM.F				03/71154 RIVA	501,00	323,00	30,20	56,10	53,00	65,00	67,00	+20	151,33		0,390
	3/4" A105N./CR13 150 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	S353 COMPONENT KEY VAR 24003231				ARC A105N	0,200	0,980	0,190	0,020	0,020	0,120	0,060	0,010	0,240	0,020	0,002
	MAT.NO.1011120				03/72503 RIVA	507,00	376,00	27,60	63,00	80,00	59,00	56,00	+20	156,00		0,413
230	42 094037	450	315	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GATE VALVE OS&Y BB RB FLG				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	
	L1 105A SM.F RFSM.F				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387
	1" A105N./CR13 150 LBS				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB <	
	S353 COMPONENT KEY VAR 24003231				AOX A105N	0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,010	
	MAT.NO.1009866				03/71153 RIVA	500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33		0,435
240	3 148481	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB	
	GATE VALVE OS&Y BB FB				APS A105N	0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020		
	H 107C/T SW				03/71154 RIVA	501,00	323,00	30,20	56,10	53,00	65,00	67,00	+20	151,33		0,390

TEST RESULT
hydrostatic and
pneumatic test: SATISFACTORY

date | third | authority | date | client | inspector

INSPECTION DEPT. F.E.S.p.A. BONNEY FORGE VALVE LICENSEE QA/QC DEPT. E. ALCOLA

date 23/12/03

F.E. S.P.A.
BONNET FORGE VALVE LICENSEE
SEDE LEGALE
Via A.Volta, n°4
39100 Bolzano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT
Via Tonale 70/A - 24061 Albano S. Alessandro (BG) Italy
Phone 035.584.111 (16 lines r.a.)
Telefax 035.583022

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

2202

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

X PARTIAL ORDER
BALANCE ORDER

X API 598
BS 6755

X EN 10204 3.1B

OUR JOB N. 030408

REMARKS:

MATERIAL TESTED

TEST: PSI X | BAR

HYDROSTATIC: SHELL, SEATS | PNEUM: SEATS

CHEMICAL ANALYSIS (%) / MECHANICAL PROPERTIES

ITEM	QTY PART N. DESCRIPTION	PSI SHELL	PSI SEATS	BAR SEATS	COMPONENT HEAT CODE MATERIAL HEAT NR SUPPLIER	C % / TENSILE N/mm2	MN % / YELD N/mm2	SI % / ELONGATION %	P % / RED.OF AREA %	S % / IMPACT TEST 1 JOULE	CR % / IMPACT TEST 2 JOULE	NI % / IMPACT TEST 3 JOULE	MO % / TEST TEMP °C	CU % / HARDNESS HB	V % / HARDNESS HB	NB % / C.E.
	1 1/2" A105N/CR13 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	S350 COMPONENT KEY VAR 24003234				APV A105N	0,185	0,970	0,180	0,012	0,020	0,100	0,050	0,010	0,210	0,020	0,002
	MAT.NO.1041147				03/72501 RIVA	500,00	354,00	25,00	43,40	36,00	35,00	40,00	+20	149,00		0,389
					BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
					APX A105N	0,185	1,010	0,190	0,015	0,022	0,100	0,060	0,010	0,200	0,017	0,001
					03/72459 RIVA	497,00	331,00	26,80	30,80	35,00	92,00	43,00	+20	150,66		0,395
320	4 076920	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GLOBE VALVE OS&Y BB RB				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	
	HL 305A/T SW				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387
	1" A105N./CR13/CR13* 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB <	
	V305 COMPONENT KEY VAR 66013254				AOX A105N	0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,010	
	MAT.NO.1046744				03/71153 RIVA	500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33		0,435
					BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
					ARH A105N	0,180	1,020	0,240	0,013	0,020	0,080	0,060	0,010	0,200	0,019	0,002
					72800 RIVA	501,00	320,00	33,60	57,00	52,00	39,00	36,00	+20	152,00		0,388
350	1 114899	5575	4075	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB	
	GATE VALVE OS&Y BB FB				APS SA105N	0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020		
	9H 103A/T SW				03/71154 RIVA	501,00	323,00	30,20	56,10	53,00	65,00	67,00	+20	151,33		0,390
	1/2" SA105N./CR13* 1500 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	S330 COMPONENT KEY VAR 24003374				ARH SA105N	0,180	1,020	0,240	0,013	0,020	0,080	0,060	0,010	0,200	0,019	0,002
	MAT.NO.1041657				72800 RIVA	501,00	320,00	33,60	57,00	52,00	39,00	36,00	+20	152,00		0,388
360	1 076312	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GLOBE VALVE OS&Y BB RB				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	
	HL 305A/T SW				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387
	1" A105N./CR13 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	V350 COMPONENT KEY VAR 66013234				ARH A105N	0,180	1,020	0,240	0,013	0,020	0,080	0,060	0,010	0,200	0,019	0,002
	MAT.NO.1041230				72800 RIVA	501,00	320,00	33,60	57,00	52,00	39,00	36,00	+20	152,00		0,388
							STANDARD MATERIAL SPECIFICATION									
							**********	**********	**********	**********	**					

TEST RESULT
hydrostatic and
pneumatic test: SATISFACTORY

date | third | authority | date | client | inspector

INSPECTION DEPT.
B.F.E. S.p.A.
BONNEY FORGE VALVE LICENSEE
Q.A.C. DEPT.
E. ZOLA

date 23/12/03

F.E. S.P.A.
BONNEY FORGE VALVE LICENSEE
SEDE LEGALE
via A.Volta, n°4
39100 Bolzano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT
Via Tonale 70/A - 24061 Albano S. Alessandro (BG) Italy
Phone 035.384.111 (16 lines r.a.)
Telefax 035.583022

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

NUMBER 7375/03 | REVISION

2202

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

X PARTIAL ORDER
BALANCE ORDER

X API 598
BS 6755

X EN 10204 3.1B

OUR JOB N. 030408

REMARKS:

ITEM	QTY PART N. DESCRIPTION	PSI TEST X HYDROSTATIC SHELL	SEATS	BAR PNEUM SEATS	COMPONENT HEAT CODE MATERIAL HEAT NR SUPPLIER	TENSILE N/mm2	YELD N/mm2	ELONGATION %	RED.OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST TEMP °C	HARDNESS HB	HB	C.E.
	MATERIAL TESTED					%	%	%	%	%	%	%	%	%	%	%
						CHEMICAL ANALYSIS										
						MECHANICAL PROPERTIES										
	1 1/2" A105N/CR13 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	S350 COMPONENT KEY VAR 24003234				APV A105N	0,185	0,970	0,180	0,012	0,020	0,100	0,050	0,010	0,210	0,020	0,002
	MAT.NO.1041147				03/72501 RIVA	500,00	354,00	25,00	43,40	36,00	35,00	40,00	+20	149,00		0,389
					BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
					APX A105N	0,185	1,010	0,190	0,015	0,022	0,100	0,060	0,010	0,200	0,017	0,001
					03/72459 RIVA	497,00	331,00	26,80	30,80	35,00	92,00	43,00	+20	150,66		0,395
320	4 076920	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GLOBE VALVE OS&Y BB RB				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	
	HL 305A/T SW				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387
	1" A105N./CR13/CR13* 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	CU	V	NB <	
	V305 COMPONENT KEY VAR 66013254				AOX A105N	0,200	1,000	0,190	0,010	0,020	0,090	0,050	0,210	0,170	0,010	
	MAT.NO.1046744				03/71153 RIVA	500,00	339,00	32,00	60,50	78,00	62,00	68,00	+20	143,33		0,435
					BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
					ARH A105N	0,180	1,020	0,240	0,013	0,020	0,080	0,060	0,010	0,200	0,019	0,002
					72800 RIVA	501,00	320,00	33,60	57,00	52,00	39,00	36,00	+20	152,00		0,388
350	1 114899	5575	4075	100	BODY	C	MN	SI	P	S	CR	NI	CU	V	NB	
	GATE VALVE OS&Y BB FB				APS SA105N	0,185	0,970	0,200	0,015	0,020	0,100	0,060	0,250	0,020		
	9H 103A/T SW				03/71154 RIVA	501,00	323,00	30,20	56,10	53,00	65,00	67,00	+20	151,33		0,390
	1/2" SA105N./CR13* 1500 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	S330 COMPONENT KEY VAR 24003374				ARH SA105N	0,180	1,020	0,240	0,013	0,020	0,080	0,060	0,010	0,200	0,019	0,002
	MAT.NO.1041657				72800 RIVA	501,00	320,00	33,60	57,00	52,00	39,00	36,00	+20	152,00		0,388
360	1 076312	2975	2175	100	BODY	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	GLOBE VALVE OS&Y BB RB				ALZ A105N	0,180	1,010	0,240	0,008	0,020	0,100	0,050	0,010	0,170	0,018	
	HL 305A/T SW				279735 RIVA	517,00	345,00	33,70	66,00	43,00	56,00	46,00	+20	145,00		0,387
	1" A105N./CR13 800 LBS				BONNET	C	MN	SI	P	S	CR	NI	MO	CU	V	NB
	V350 COMPONENT KEY VAR 66013234				ARH A105N	0,180	1,020	0,240	0,013	0,020	0,080	0,060	0,010	0,200	0,019	0,002
	MAT.NO.1041230				72800 RIVA	501,00	320,00	33,60	57,00	52,00	39,00	36,00	+20	152,00		0,388
						STANDARD MATERIAL SPECIFICATION										
						**********	**********	**********	**********	**						

TEST RESULT
hydrostatic and
pneumatic test: SATISFACTORY

date | third | authority | date | client | inspector

INSPECTION DEPT.
B.F.E. S.p.A.
BONNEY FORGE VALVE LICENSEE
Q.A.C. DEPT.
E. ZOLA

date 23/12/03

I.F.E. S.P.A.
BONNEY FORGE VALVE LICENSEE
SEDE LEGALE
via A.Volta, n°4
39100 Bolzano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT
Via Tonale 70/A - 24061 Albano S. Alessandro (BG) Italy
Phone 035.584.111 (16 lines r.a.)
Telefax 035.583022

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

NUMBER: 7375/03
REVISION:
2202

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
X PARTIAL ORDER
BALANCE ORDER
X API 598
BS 6755
X EN 10204 3.1B
OUR JOB N.: 030408
REMARKS:

MATERIAL TESTED

TEST: PSI X / BAR
HYDROSTATIC: SHELL, SEATS / PNEUM: SEATS

ITEM	QTY	PART N.	DESCRIPTION

- VISUAL DIMENSIONAL EXAMINATION HAS BEEN CARRIED OUT WITH SATISFACTORY RESULT.

TEST RESULT
hydrostatic and
pneumatic test: SATISFACTORY

date third authority

CHEMICAL ANALYSIS / MECHANICAL PROPERTIES

COMPONENT / HEAT CODE MATERIAL / HEAT NR SUPPLIER		C %	MN %	P %	S %	SI %	CU %	NI %	CR %	MO %	V %	NB %	TENSILE N/mm2	YELD N/mm2	ELONGATION %	RED.OF AREA %	IMPACT TEST 1 JOULE	IMPACT TEST 2 JOULE	IMPACT TEST 3 JOULE	TEST TEMP °C	HARDNESS HB	HARDNESS HB	C.E.
ASTM A105	MIN.		0,600			0,100																	
	MAX.	0,350	1,050	0,035	0,040	0,350	0,400	0,400	0,300	0,120	0,050	0,020											
	MIN.												485,00	250,00	22,00	30,00							
	MAX.									187,00													
ASTM A182 F11/2	MIN.	0,100	0,300	0,500			1,000	0,440															
	MAX.	0,200	0,800	1,000	0,040	0,040	1,500	0,650		156,00													
	MIN.												485,00	275,00	20,00	30,00							
	MAX.									207,00													
ASTM A182 F22/3	MIN.	0,050	0,300				2,000	0,870															
	MAX.	0,150	0,600	0,500	0,040	0,040	2,500	1,130		156,00													
	MIN.												515,00	310,00	20,00	30,00							
	MAX.									207,00													

date client inspector

INSPECTION DEPT.
I.F.E. S.P.A.
BONNEY FORGE VALVE LICENSEE
QUALITY DEPT.
E. AZZOLA

date
23/12/03

F.E. S.P.A.
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TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

NUMBER: 7375/03
REVISION:
2202

CUSTOMER
CUNADO INTERNACIONAL, S.A.
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28806 ALCALA DE HENARES
SPAIN

YOUR PURCHASE ORDER N.: 3697
DATE: 25/02/2003
X PARTIAL ORDER
BALANCE ORDER
X API 598
BS 6755
X EN 10204 3.1B
OUR JOB N.: 030408
REMARKS:

ITEM	QTY	PART N.	DESCRIPTION
			- 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.
			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 MANUFACTURACTURED IN ACCORDANCE WITH CONFORMITY ASSESSMENT MODULE H AS APPROVED BY DET NORSKE VERITAS (COD.0434) OF VERITASVEIEN 1, 1322 HOVIK, NORWAY.
			CATEGORY :III
			FLUID GROUP :I

TEST (PSI / BAR): X
HYDROSTATIC SHELL / HYDROSTATIC SEATS / PNEUM SEATS

COMPONENT: HEAT CODE MATERIAL / HEAT NR SUPPLIER

CHEMICAL ANALYSIS: % % % % % % % % % % %

MECHANICAL PROPERTIES: TENSILE N/mm2 | YELD N/mm2 | ELONGATION % | RED.OF AREA % | IMPACT TEST 1 JOULE | 2 JOULE | 3 JOULE | TEST TEMP °C | HARDNESS HB | HB | C.E.

TEST RESULT
hydrostatic and
pneumatic test: SATISFACTORY

date | third | authority | date | client | inspector

INSPECTION DEPT.
B.F.E. S.p.A.
BONNET FORGE VALVE LICENSEE
QUALITY DEPT.
E. AZZOLA

date 23/12/03

F.E. S.P.A.
BONNEY FORGE VALVE LICENSEE
SEDE LEGALE via A.Volta, n°4 39100 Bolzano (ITALY)
HEAD OFFICE-FORGED VALVE PLANT Via Tonale 70/A - 24061 Albano S. Alessandro (BG) Italy Phone 035.564.111 (10 lines r.a.) Telefax 035.563022

TEST CERTIFICATE
(DECLARATION OF CONFORMITY)

NUMBER	REVISION
7375/03	

2202

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

X PARTIAL ORDER
BALANCE ORDER

X API 598
BS 6755

X EN 10204 3.1B

OUR JOB N. 030408

REMARKS:

MATERIAL TESTED																							
					PSI	TEST	BAR	COMPONENT	CHEMICAL ANALYSIS														
					X				%	%	%	%	%	%	%	%	%	%	%				
					HYDROSTATIC		PNEUM	HEAT CODE MATERIAL	MECHANICAL PROPERTIES														
ITEM	QTY	PART N.	DESCRIPTION		SHELL	SEATS	SEATS	HEAT NR SUPPLIER	TENSILE N/mm2	YELD N/mm2	ELONGATION %	RED.OF AREA %	IMPACT TEST 1 JOULE	2 JOULE	3 JOULE	TEST TEMP °C	HARDNESS HB	HB	C.E.				

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 MANUFACTURED 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.....

PRINT NAME : M. SARTORI
TITLE : GENERAL MANAGER

TEST RESULT
hydrostatic and
pneumatic test: SATISFACTORY

date third authority

date client inspector

INSPECTION DEPT.
B.F.E. S.P.A.
BONNEY FORGE VALVE LICENSEE
QUALITY DEPT.
R. AZZOLA

date
23/12/03

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 render 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 closey ad 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 indemnity 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 performace of B.F.E. shall not constitutte 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 workemen, 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. garentisce 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.
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 BBRJ BEL BW	Bolted Bonnet Bolted Bonnet Ring Joint Type Bellows Sealed Butt Weld	Coperchio bullonato Coperchio bullonato tipo Ring Joint Soffietto di tenuta Saldatura di testa
CRY	Cryogenic Service	Servizio Criogenico
FB FF SM. F FF ST. F FLG F.P. FPWB	Full Port Flat Face Smooth Finish Flat Face Stock Finish Integral Flanges Full Penetration Welded Bonnet Full Penetration	Passaggio Pieno Faccia Piana Finitura Liscia Faccia Piana Finitura Fonografica o Concentr. Flange Integrali Piena Penetrazione 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 RF SM. F RF ST. F RJ	Reduced Port Raised Faced Smooth Finish Raised Faced Stock Finish Ring Joint	Passaggio Ridotto Faccia con Risalto Finitura Liscia Faccia con Risalto Finit. Fonograf. o Concentr. Anello di Giunzione
SM. GR. SW SWB	Small Groove Socket Weld Seal Welded Bonnet	Incastro femmina stretto Tasca a Saldare Coperchio filettato con saldatura di sigillo
WB WFLG	Welded Bonnet Welded Flanges	Coperchio Saldato Flange Saldate
*	Stellited	Stellitato