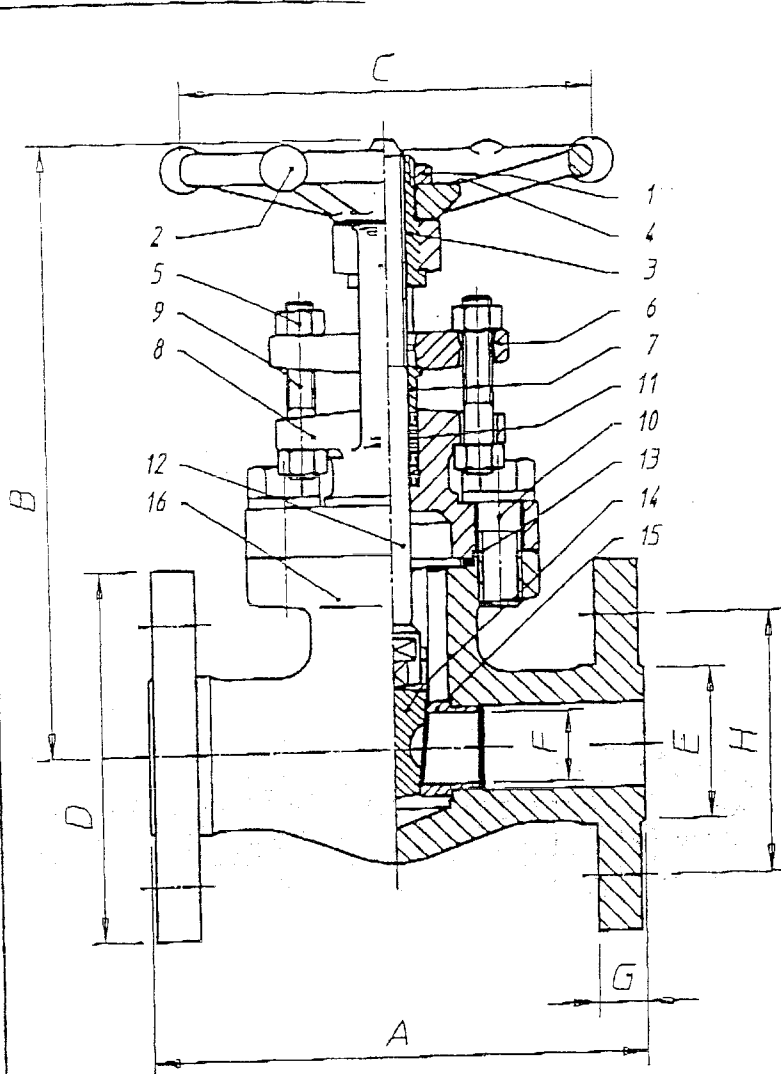


915564277



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volante HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stela STEM	ASTM A479 410
13	Guarnizione spirale SPW GASKET	F316L + GRAPHITE
14	Otturatore solido SOLID WEDGE	ASTM A182 F6A
15	Seggio SEAT RINGS	ASTM A479 410
16	Corpo BODY	ASTM A105N

X SMOOTH FINISH (125 - 250 AARH) (3,2 - 6,3 Ra)
 D SERRATED SPIRAL FINISH

COMPONENT KEY VAR : 24003231 0035
 MAT. NUMBER : 1027382 (ITEM 10)

CUSTOMER CODE: 2202

SIZE	1/2"	3/4"	1"	1.1/2"	2"	3"		
A	108	117,5	127	165	178	203		
B open	175	182	212	255	290	330		
C	88	88	97	138	138	172		
D	89	98,5	108	127	152,5	190,5		
E	35	43	51	73	92	127		
F	9,6	14	18	30	36,6	48		
G	11,5	13	14,5	17,5	19,5	24		
H	60	70	79,5	98,5	121	152		
n x Ø holes	4x16	4x16	4x16	4x16	4x19	4x19		
WEIGHT kg~	2,9	3,7	5,2	9,6	13,2	16,5		
FIGURE N°	L1 103	L1 104	L1 105	L1 107	L1 108	L1 1010		
ITEM				10				



B.F.E. SpA
 BONNEY FORGE
 VALVE LICENSEE

Drawn:	M.Teli	26.4.95
Appr:	P.Gargiulo	26.4.95
Revisions		

COMPANY
 WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001 =

Title : GATE VALVE B.B. O.S. & Y
 INTEGRAL FLANGED ENDS
 CLASS 150 lbs - REDUCED BORE

Reference
 specification
 API 602
 BS5352

Drawing N° :

L1 100

011

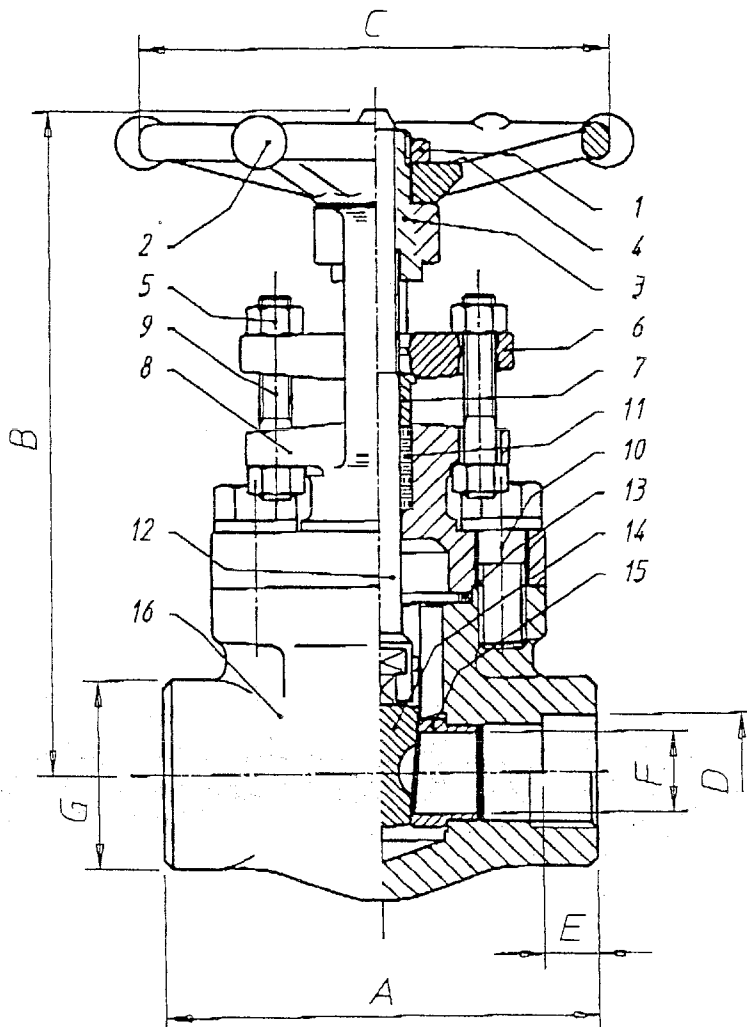
A105N/CR13150LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S353
 BFE JOB NR : 030408

B.F.E. CODE VALVE 131140

19.05.03

915564277



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A
15	Seggio SEAT RINGS	ASTM A479 410
16	Corpo BODY	ASTM A105N

✓ SOCKET WELDING ENDS ACCORDING TO ANSI B16.11
 () SCREWED ENDS ACCORDING TO ANSI B120.1 (NPT)

3234

COMPONENT KEY VAR : 2406354-0035

MAT. NUMBER : 1041911 (ITEM 20)

MAT. NUMBER : 1040461 (ITEM 30)

MAT. NUMBER : 1040460 (ITEM 40)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	80	80	90	110	127	127	134	152
B open	152	152	158	196	225	255	270	330
C	88	88	88	97	138	138	138	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
E	11,1	11,1	12,7	14,3	15,8	17,5	19	22,2
F	8	9,6	14	18	24	30	36,6	46,5
G	32	32	38	48	56	64	78	78
WEIGHT kg~	2,1	2,1	2,3	3,7	5,9	7,4	7,5	12,5
FIGURE N°	H 101	H 102	H 103	H 104	H 105	H 106	H 107	H 108
ITEM			20	30	40			



B.F.E. Sp.A.
BONNEY FORGE
 VALVE LICENSEE

Draw.: M.Teli 20.4.95
 Appr.: P.Gargiulo 20.4.95
 Revisions

COMPANY
 WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 =ISO 9001=

Title :

GATE VALVE B.B. O.S. & Y
 CLASS 800 lbs - FULL BORE

Reference
specification

BS5352

Drawing N° :

H 100

018

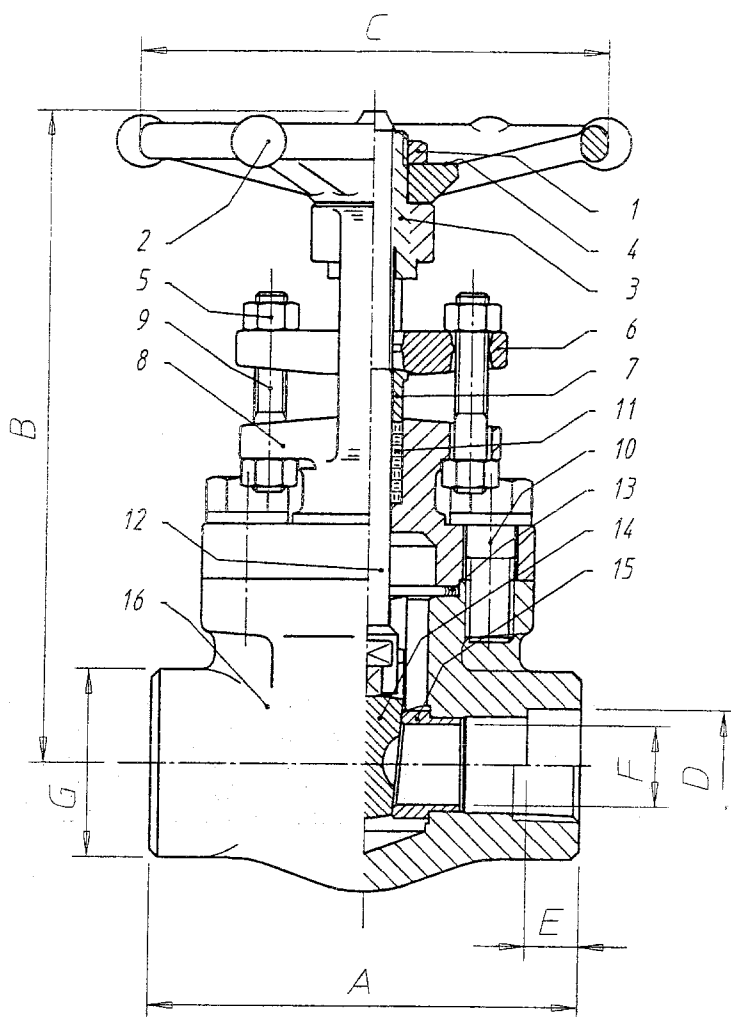
A105N/CR13800LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S350
 BFE JOB NR : 030408

approved: 02.04.03

CUSTOMER CODE: 2202

B.F.E. CODE VALVE



POS	PART NAME	MATERIAL
1	Dado volantino HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PIPE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A105N

X SOCKET WELDING ENDS ACCORDING TO ANSI B16.11
 () SCREWED ENDS ACCORDING TO ANSI B1.20.1 (NPT)

COMPONENT KEY VAR : 24003254 0039

MAT. NUMBER : 1046977 (ITEM 050)

MAT. NUMBER : 1046974 (ITEM 060)

MAT. NUMBER : 1046727 (ITEM 080)

MAT. NUMBER : 1054407 (ITEM 270)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	80	80	90	110	127	127	134	152
B open	152	152	158	196	225	255	270	330
C	88	88	88	97	138	138	138	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
E	11,1	11,1	12,7	14,3	15,8	17,5	19	22,2
F	8	9,6	14	18	24	30	36,6	46,5
G	32	32	38	48	56	64	78	78
WEIGHT kg~	2,1	2,1	2,3	3,7	5,9	7,4	7,5	12,5
FIGURE N°	H 101	H 102	H 103	H 104	H 105	H 106	H 107	H 108
ITEM			50	60	80		270	



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

Draw.: M.Teli 20.4.95
 Appr.: P.Gargiulo 20.4.95
 Revisions

COMPANY
 WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001 =

Title :

GATE VALVE B.B. O.S. & Y
 CLASS 800 lbs - FULL BORE

Reference
 specification

BS5352

Drawing N° :

H 100 | 046

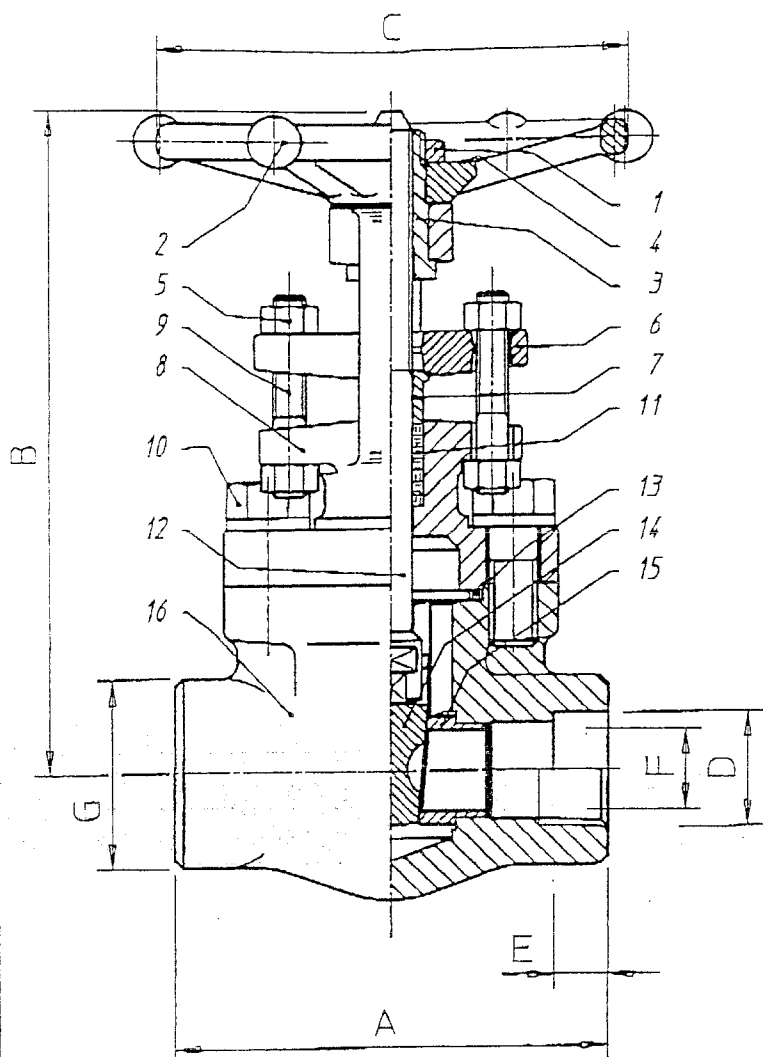
A105N/CR13*800LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S306
 BFE JOB NR : 030408

CUSTOMER CODE: 2202

B.F.E. CODE VALVE

915564277



POS	PART NAME	MATERIAL
1	Dado volantino HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A105N

X SOCKET WELDING ENDS ACCORDING TO ANSI B16.11
 D SCREWED ENDS ACCORDING TO ANSI B120.1 (NPT)

COMPONENT KEY VAR : 24003254 0039

MAT. NUMBER : 1040879 (ITEM 70)

MAT. NUMBER : 1045802 (ITEM 90)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	90	90	110	127	127	127	127	210
B open	153	153	190	220	250	282	290	355
C	88	88	97	138	138	138	172	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
E	11,1	11,1	12,7	14,3	15,8	17,5	19	22,2
F	8	9,6	14	18	24	30	36,6	48
G	38	38	48	56	64	78	78	85
WEIGHT kg~	2,4	2,4	4,1	6,2	8	10,5	11,5	19,5
FIGURE N°	9H 101	9H 102	9H 103	9H 104	9H 105	9H 106	9H 107	9H 108
ITEM				70	90			



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

Draw.:	M.Tell	21.3.95
Appr.:	P.Gargiulo	21.3.95
Revisions	A	

COMPANY
 WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 =ISO 9001=

Title : GATE VALVE B.B. O.S. & Y
 CLASS 1500 lbs - FULL BORE

Reference specification

BGS352

Drawing N° :

9H 100

012

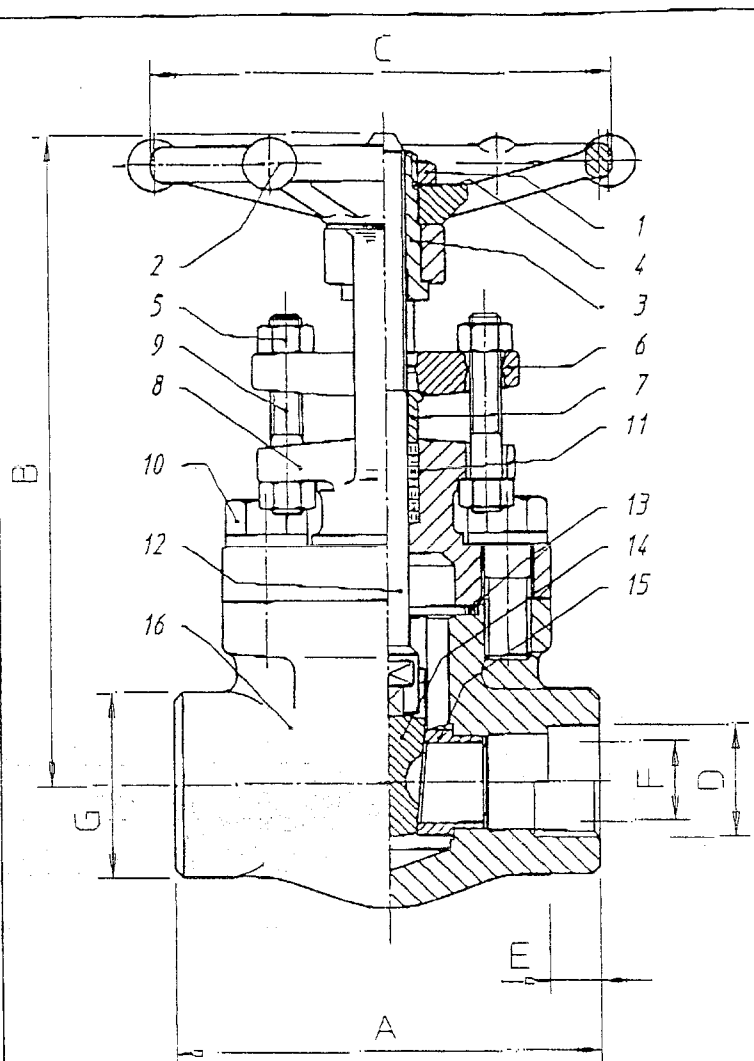
A105N/CR13/CR13*1500LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S306
 BFE JOB NR : 030408

CUSTOMER CODE: 2202

B.F.E. CODE VALVE

915564277



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volante HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetto NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitreccia GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B7
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A105N

X SOCKET WELDING ENDS ACCORDING TO ANSI B16.11
 () SCREWED ENDS ACCORDING TO ANSI B1.20.1 (NPT)

COMPONENT KEY VAR : 24003374 3005

MAT. NUMBER : 1040882 (ITEM 100)

MAT. NUMBER : 1040033 (ITEM 110)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	90	90	110	127	127	127	127	210
B open	153	153	190	220	250	282	290	355
C	88	88	97	138	138	138	172	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
E	11,1	11,1	12,7	14,3	15,8	17,5	19	22,2
F	8	9,6	14	18	24	30	36,6	48
G	38	38	48	56	64	78	78	85
WEIGHT kg-	2,4	2,4	4,1	6,2	8	10,5	11,5	19,5
FIGURE N°	9H 101	9H 102	9H 103	9H 104	9H 105	9H 106	9H 107	9H 108
ITEM				100			110	

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

Drawn: M.Tell 21.3.95
 Appr.: P.Gargiulo 21.3.95
 Revisions

COMPANY
WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 =ISO 9001=

Title : GATE VALVE B.B. O.S. & Y
 CLASS 1500 lbs - FULL BORE

Reference
 specification
BS5352

Drawing N° :
9H 100 013
 A105N/CR13/CR13*1500LBS

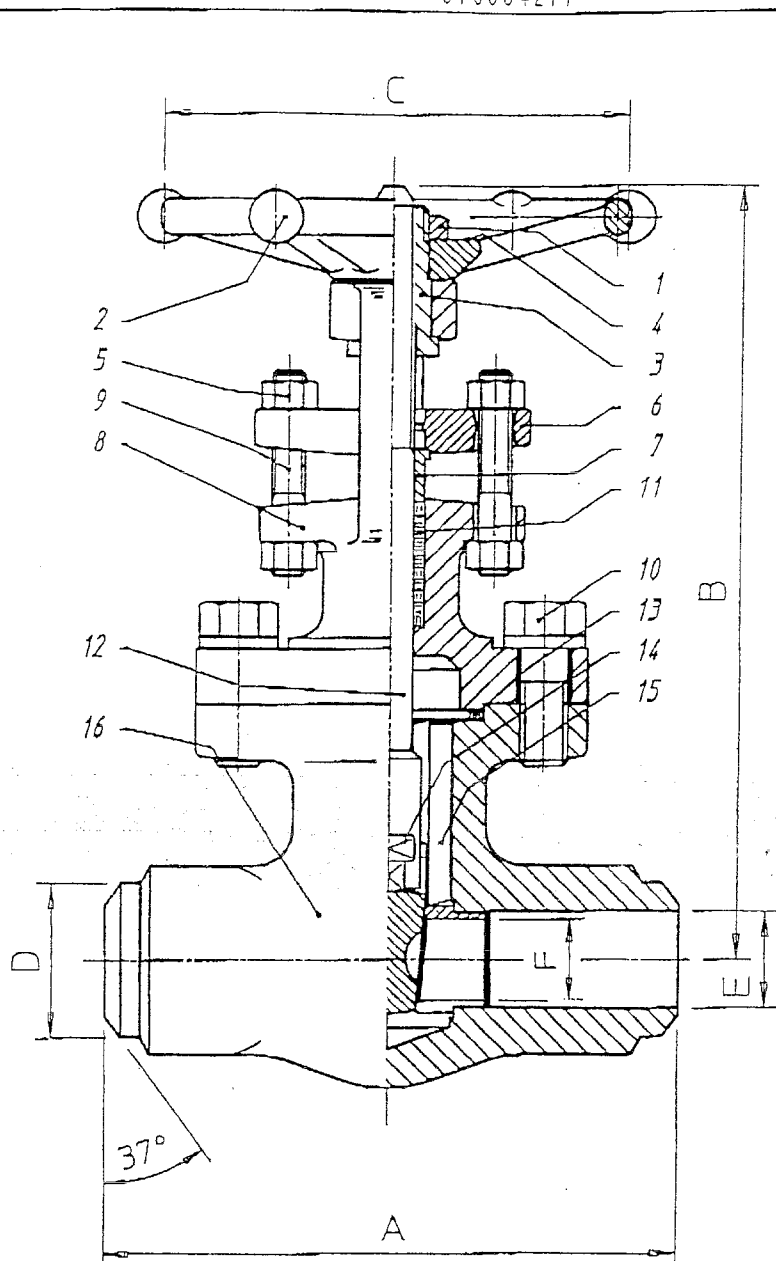
CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : 5330
 BFE JOB NR : 030408

approved: 02.06.03

CUSTOMER CODE: 2202

B.F.E. CODE VALVE 134048

915564277



POS	PART NAME	MATERIAL
1	Dado volantino HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F11 CL.2
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F11 CL.2

BW ENDS FOR PIPE SCH.80
FACE TO FACE ACC.TO ANSI B16.10

COMPONENT KEY VAR : 24004323 0005
MAT. NUMBER : 1047791 (ITEM 120)

SIZE	1/2"	3/4"	1"	1.1/2"	2"			
A	216	229	254	305	371,5			
B open	215	245	295	345	440			
C	97	138	138	172	230			
D	21,3	26,7	33,4	48,3	60,3			
E	14	19	24,3	38,1	49,2			
F	12	16	19,5	34,5	45			
WEIGHT kg ~	4,7	7,2	9,5	16	28			
FIGURE N°	15H103	15H104	15H105	15H107	15H108			
ITEM			120					

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

Draw.: M.Tell 20.4.95
Appr.: P.Gargiulo 20.4.95
Revisions A

COMPANY
WITH

QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001=

Title :

GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

Reference
specification
BS6362

Drawing N° :

15H 10B 003

F11/CR13/CR13*1500LBS

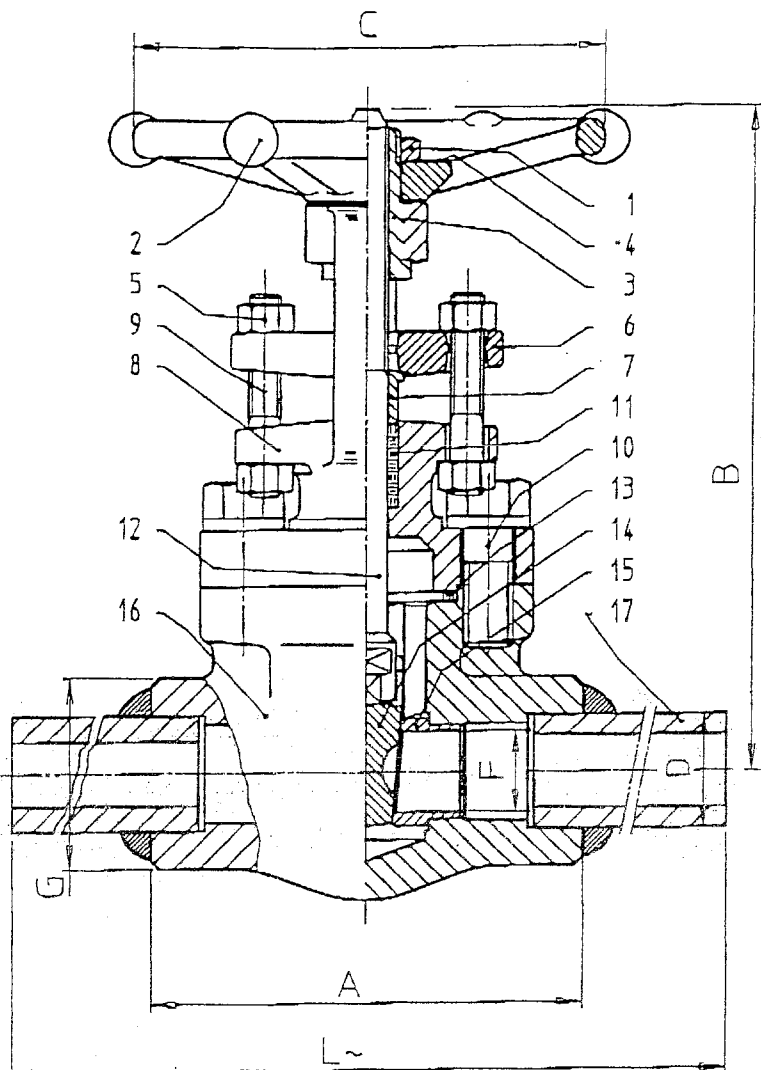
CUSTOMER : CUNADO INTERNACIONAL, S.A.
P.O. NUMBER : 3697
TAG NR : 5420
BFE JOB NR : 030408

CUSTOMER CODE: 2202

B.F.E. CODE VALVE 186085

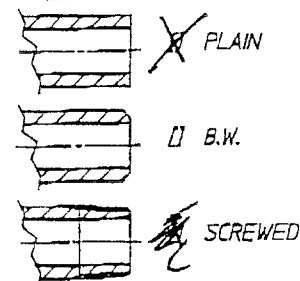
15.05.03 G.H.P.

915564277



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitreccia GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F11 CL.2
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F11 CL.2
17	Nippli NIPPLES	ASTM A335 P11

NIPPLES END DETAIL:



NIPPLES SCH 80 LENGTH 75

COMPONENT KEY VAR : 24004323 0006

MAT. NUMBER : 1047827 (ITEM 130)

MAT. NUMBER : 1047873 (ITEM 140)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	90	90	110	127	127	127	127	210
B open	153	153	190	220	250	282	290	355
C	88	88	97	138	138	138	172	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
F	8	9,6	14	18	24	30	36,6	48
G	38	38	48	56	64	78	78	85
L~			260	277				
WEIGHT kg~	2,4	2,4	4,1	6,2	8	10,5	11,5	19,5
FIGURE N°	9H 101	9H 102	9H 103	9H 104	9H 105	9H 106	9H 107	9H 108
ITEM			130	140				



B.F.E. SpA
BONNEY FORGE
VALVE LICENSEE

Draw.:	M.Telli	213.95
Appr.:	P.Gargiulo	213.95
Revisions	A	

COMPANY
WITH

QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

Title :

GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

Reference
specification

B65352

Drawing N° :

9H 100N 007

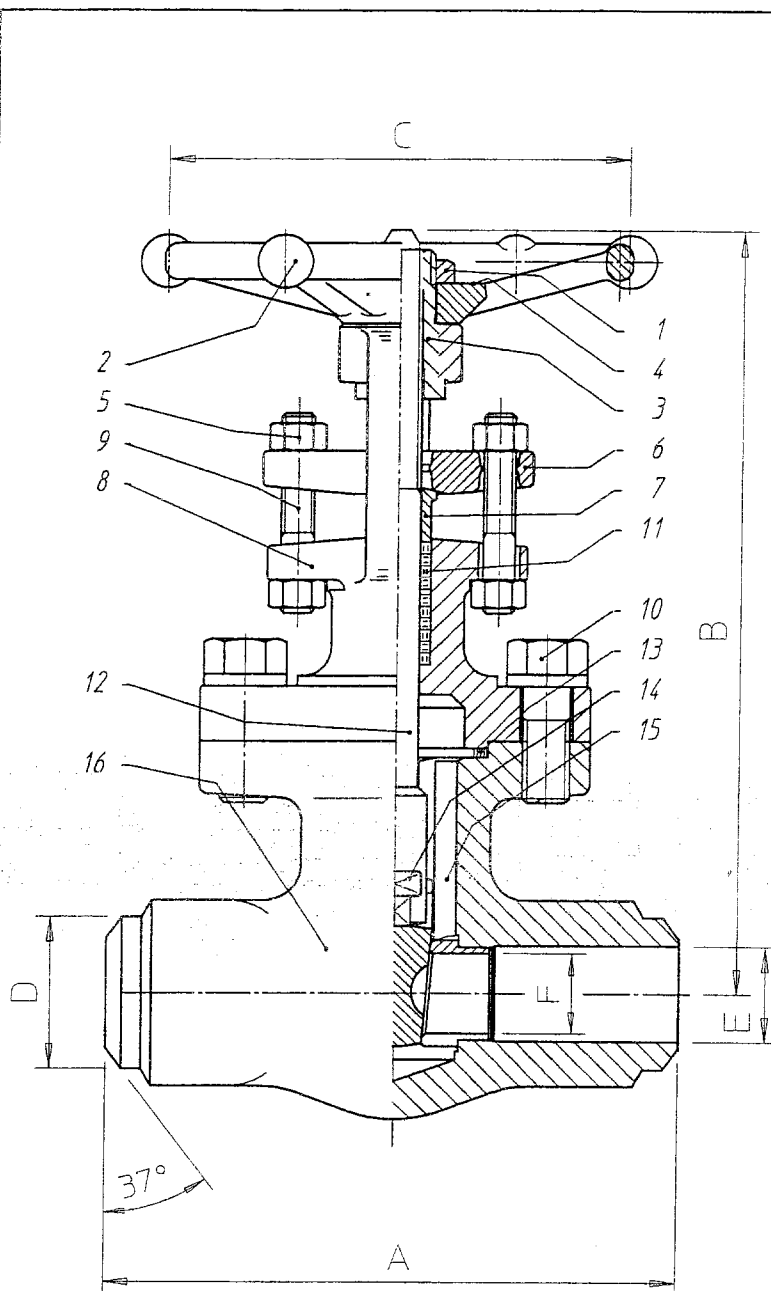
F11/CR13*1500LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
P.O. NUMBER : 3697
TAG NR : S422
BFE JOB NR : 030408

Appr. 15.03.03

CUSTOMER CODE: 2202

B.F.E. CODE VALVE



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A 105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premireccia GLAND NUTS	ASTM A194 2H
6	Flangia premirecc. GLAND FLANGE	ASTM A 105
7	Premireccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F22 CL.3
9	Tiranti premireccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F22 CL.3

BW ENDS FOR PIPE SCH.160
FACE TO FACE ACC.TO ANSI B16.10

COMPONENT KEY VAR : 24004433 0001
MAT. NUMBER : 1041635

SIZE	1/2"	3/4"	1"	1.1/2"	2"			
A	216	229	254	305	371,5			
B open	215	245	295	345	440			
C	97	138	138	172	230			
D	21,3	26,7	33,4	48,3	60,3			
E	11,8	15,5	20,7	34	42,8			
F	9	14	16	30	36,6			
WEIGHT kg ~	4,7	7,2	9,5	16	28			
FIGURE N°	15H103	15H104	15H105	15H107	15H108			
ITEM			150					

B.F.E. Sp.A.
BONNEY FORGE
VALVE LICENSEE

Draw.: M.Teli 20.4.95
Appr.: P.Gargiulo 20.4.95
Revisions A B

COMPANY
WITH

Title :

GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

CUSTOMER : CUNADO INTERNACIONAL, S.A.
P.O. NUMBER : 3697
TAG NR : S481
BFE JOB NR : 030408

QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

Reference
specification

BS5352

Drawing N° :

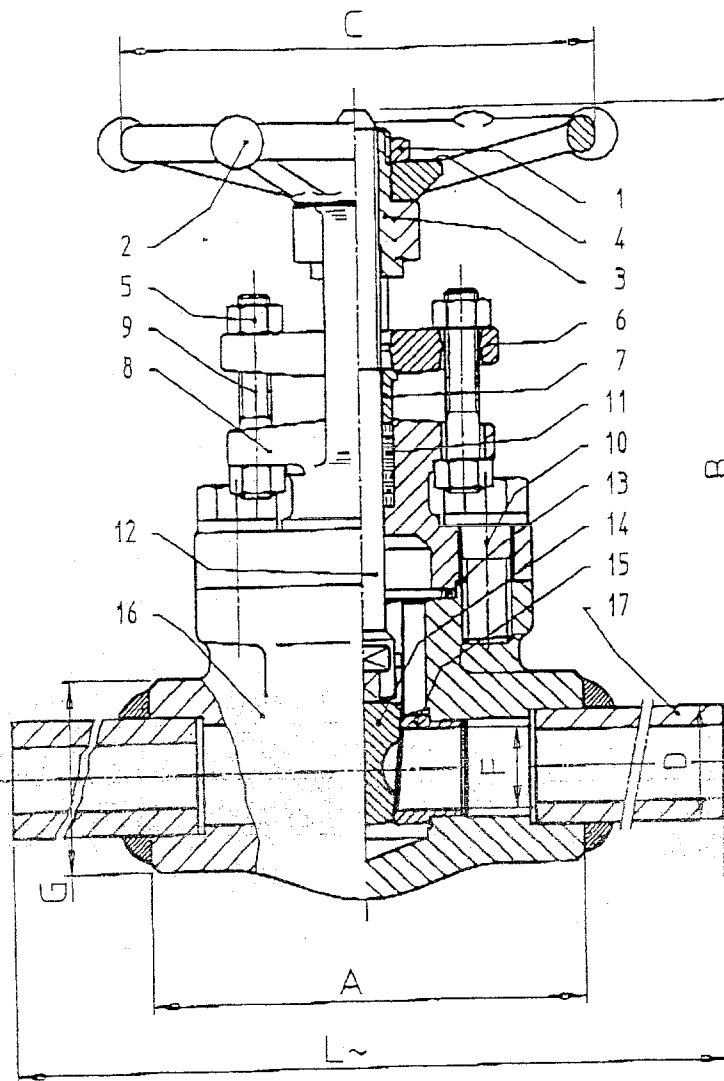
15H 10C 001

F22/CR13/CR13*1500LBS

CUSTOMER CODE: 2202

B.F.E. CODE VALVE 186089

915564277

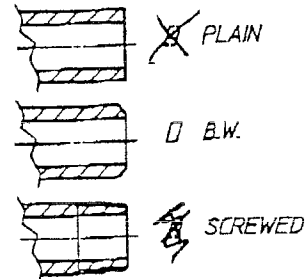


NIPPLES SCH 160 LENGTH 75

COMPONENT KEY VAR : 24004433 0002
 MAT. NUMBER : 1044155 (ITEM 160)

POS	PART NAME	MATERIAL
1	Dado volantino HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F22 CL.3
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F22 CL.3
17	Nippli NIPPLES	ASTM A335 P22

NIPPLES END DETAIL:



SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	90	90	110	127	127	127	127	210
B open	153	153	190	220	250	282	290	355
C	88	88	97	138	138	138	172	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
F	8	9,6	14	18	24	30	36,6	48
G	38	38	48	56	64	78	78	85
L~			260	277				
WEIGHT kg~	2,4	2,4	4,1	6,2	8	10,5	11,5	19,5
FIGURE N°	9H 101	9H 102	9H 103	9H 104	9H 105	9H 106	9H 107	9H 108
ITEM				160				

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

Draw.: M.Tell 213.95
 Appr.: P.Gargiulo 213.95
 Revisions | A | | | |

COMPANY
 WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001 =

Title : GATE VALVE B.B. O.S. & Y
 CLASS 1500 lbs - FULL BORE

Reference Specification: **9H 100N** 008
 BS5352 F22/CR13*1500LBS

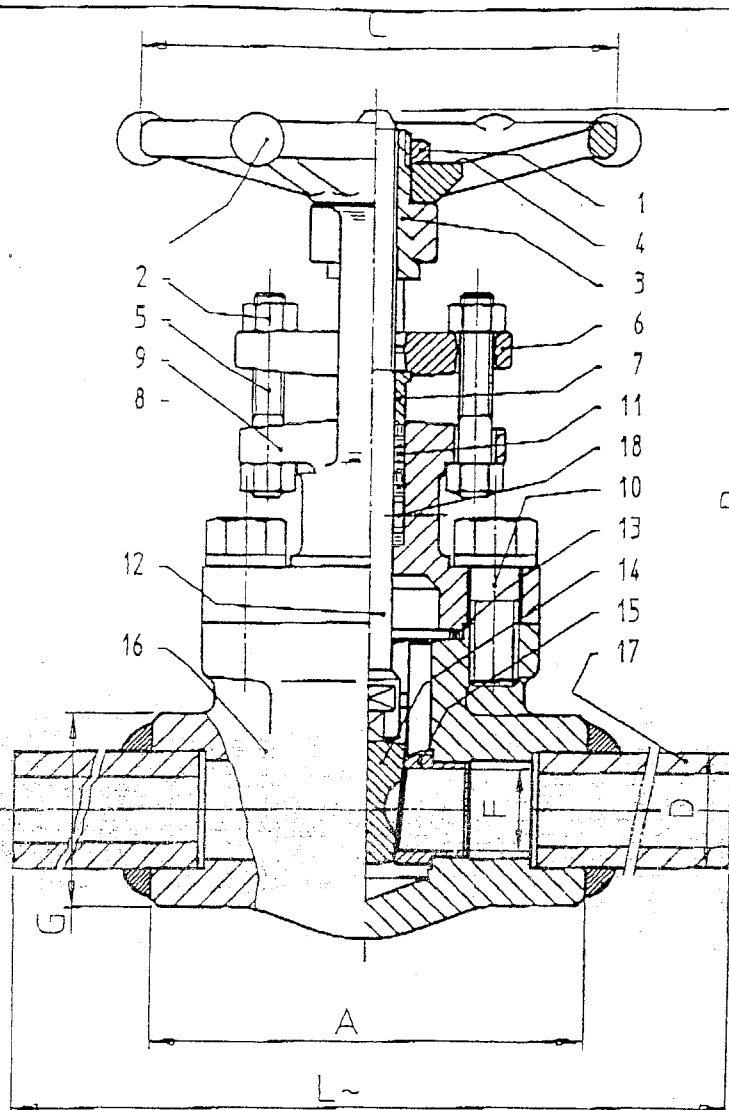
CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S480
 BFE JOB NR : 030408

15.05.03

CUSTOMER CODE: 2202

BFE CODE VALVE 106091

915564277



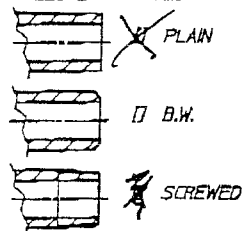
POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F22 CL.3
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F22 CL.3
17	Nippli NIPPLES	ASTM A335 P22
18	Lanterna LANTERN RING	ASTM A479 410

NIPPLES SCH 80 LENGTH 75

COMPONENT KEY VAR : 24054433 0005

MAT. NUMBER : 1048048

NIPPLES END DETAIL:



CUSTOMER CODE: 2202

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	90	90	110	127	127	127	127	210
B open	153	153	190	220	250	282	290	355
C	88	88	97	138	138	138	172	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
F	8	9,6	14	18	24	30	36,6	48
G	38	38	48	56	64	78	78	85
L~				277 ✓				
WEIGHT kg~	2,4	2,4	4,1	6,2	8	10,5	11,5	19,5
FIGURE N°	9H 101	9H 102	9H 103	9H 104	9H 105	9H 106	9H 107	9H 108
ITEM				170				

B.F.E. SpA
BONNEY FORGE
 VALVE LICENSEE

Draw: M.Telli 213.95
 Appr: P.Gargiulo 213.95
 Revisions A

COMPANY
WITH

QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

Title : GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

Reference
specification
BS6352

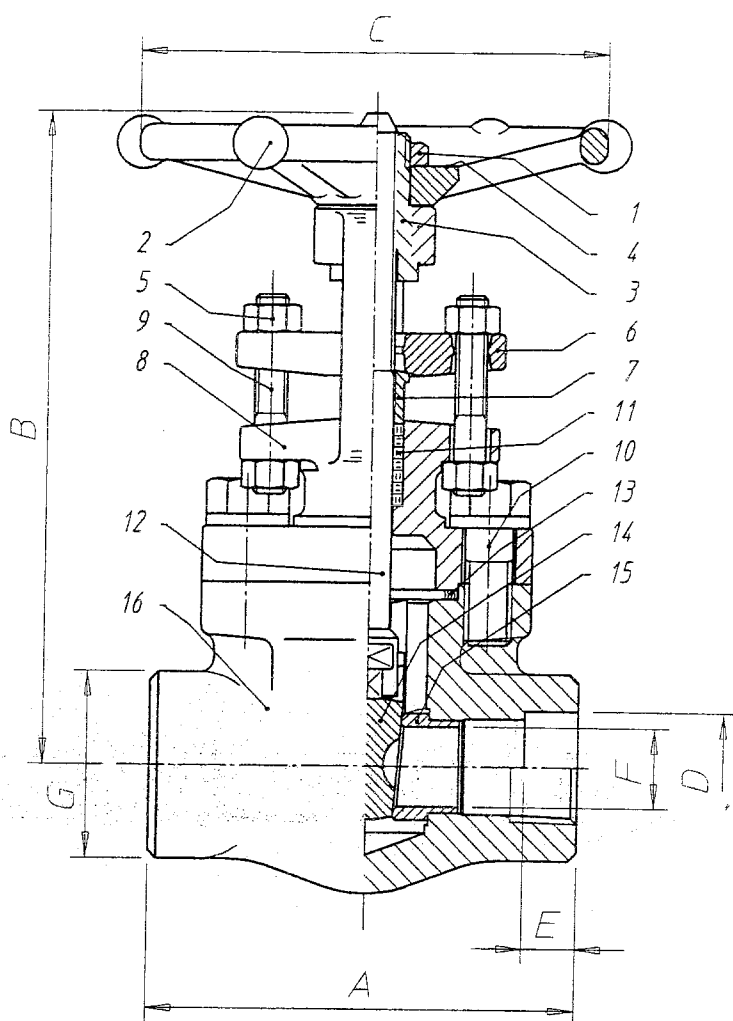
Drawing N° :

9H100N-LV06 006

F22/CR13/CR13*1500LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : 5490
 BFE JOB NR : 030408

B.F.E. CODE VALVE 186668



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrecc. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A
15	Seggio SEAT RINGS	ASTM A479 410
16	Corpo BODY	ASTM A105N

X SOCKET WELDING ENDS ACCORDING TO ANSI B16.11
 () SCREWED ENDS ACCORDING TO ANSI B1.20.1 (NPT)

COMPONENT KEY VAR : 24003234 0035
 MAT. NUMBER : 1041147

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	80	80	90	110	127	127	134	152
B open	152	152	158	196	225	255	270	330
C	88	88	88	97	138	138	138	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
E	11,1	11,1	12,7	14,3	15,8	17,5	19	22,2
F	8	9,6	14	18	24	30	36,6	46,5
G	32	32	38	48	56	64	78	78
WEIGHT kg~	2,1	2,1	2,3	3,7	5,9	7,4	7,5	12,5
FIGURE N°	H 101	H 102	H 103	H 104	H 105	H 106	H 107	H 108
ITEM							240	



B.F.E. Sp.A.
 BONNEY FORGE
 VALVE LICENSEE

Draw.: M.Teli 20.4.95
 Appr.: P.Gargiulo 20.4.95
 Revisions A

COMPANY
 WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001 =

Title : GATE VALVE B.B. O.S. & Y
 CLASS 800 lbs - FULL BORE

Reference
 specification
 BS5352

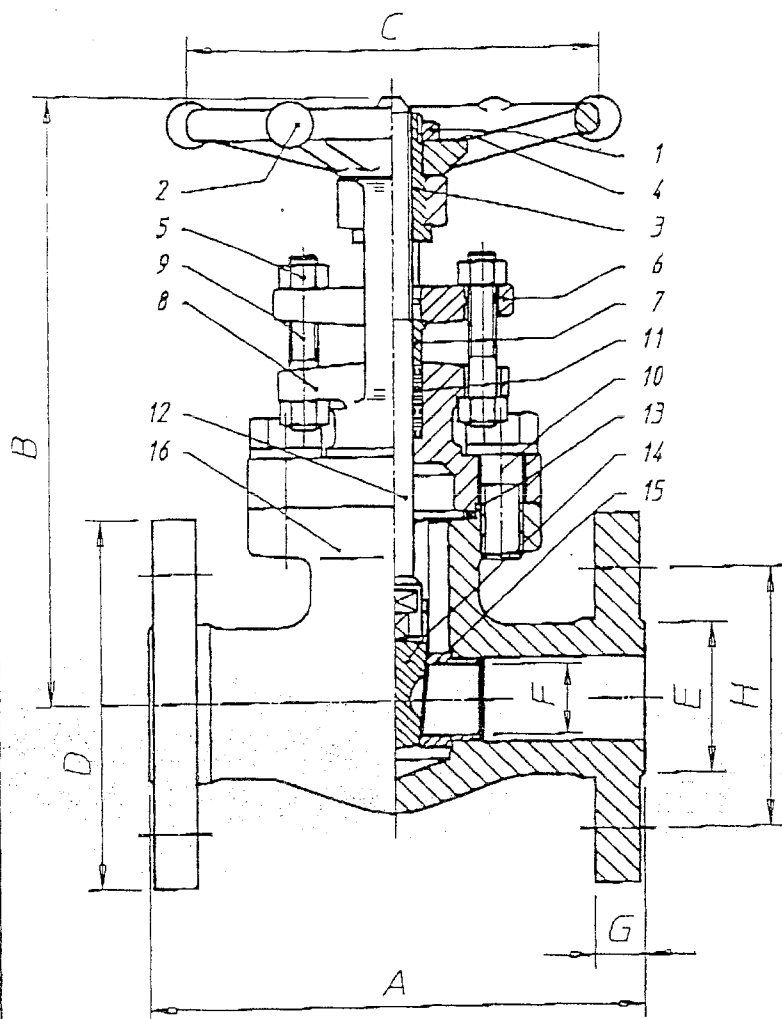
Drawing N° :
 H 100 032
 A105N/CR13800LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S350
 BFE JOB NR. : 030408

CUSTOMER CODE: 2202

B.F.E. CODE VALVE 148481

915564277



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione spirale SPW GASKET	F316L + GRAPHITE
14	Otturatore solido SOLID WEDGE	ASTM A182 F6A
15	Seggio SEAT RINGS	ASTM A479 410
16	Corpo BODY	ASTM A105N

X SMOOTH FINISH (125 - 250 AARH) (3,2 - 6,3 Ra)
 □ SERRATED SPIRAL FINISH

COMPONENT KEY VAR : 24003231 0035

MAT. NUMBER : 1027382 (ITEM 10)

MAT. NUMBER : 1011120 (ITEM 220)

MAT. NUMBER : 1009866 (ITEM 230)

SIZE	1/2"	3/4"	1"	1.1/2"	2"	3"		
A	108	117,5	127	165	178	203		
B open	175	182	212	255	290	330		
C	88	88	97	138	138	172		
D	89	98,5	108	127	152,5	190,5		
E	35	43	51	73	92	127		
F	9,6	14	18	30	36,6	48		
G	11,5	13	14,5	17,5	19,5	24		
H	60	70	79,5	98,5	121	152		
n x Ø holes	4x16	4x16	4x16	4x16	4x19	4x19		
WEIGHT kg-	2,9	3,7	5,2	9,6	13,2	16,5		
FIGURE N°	L1 103	L1 104	L1 105	L1 107	L1 108	L1 1010		
ITEM		220	230	10				

B.F.E. Sp.A.
BONNEY FORGE
 VALVE LICENSEE

Draw.: M.Teli 26.4.95

Appr.: P.Gargiulo 26.4.95

Revisions

COMPANY
WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV
 =ISO 9001=

 Title : GATE VALVE B.B. O.S. & Y
 INTEGRAL FLANGED ENDS
 CLASS 150 lbs - REDUCED BORE
Reference
specification

API 602

BS5352

Drawing N° :

L1 100 | 028

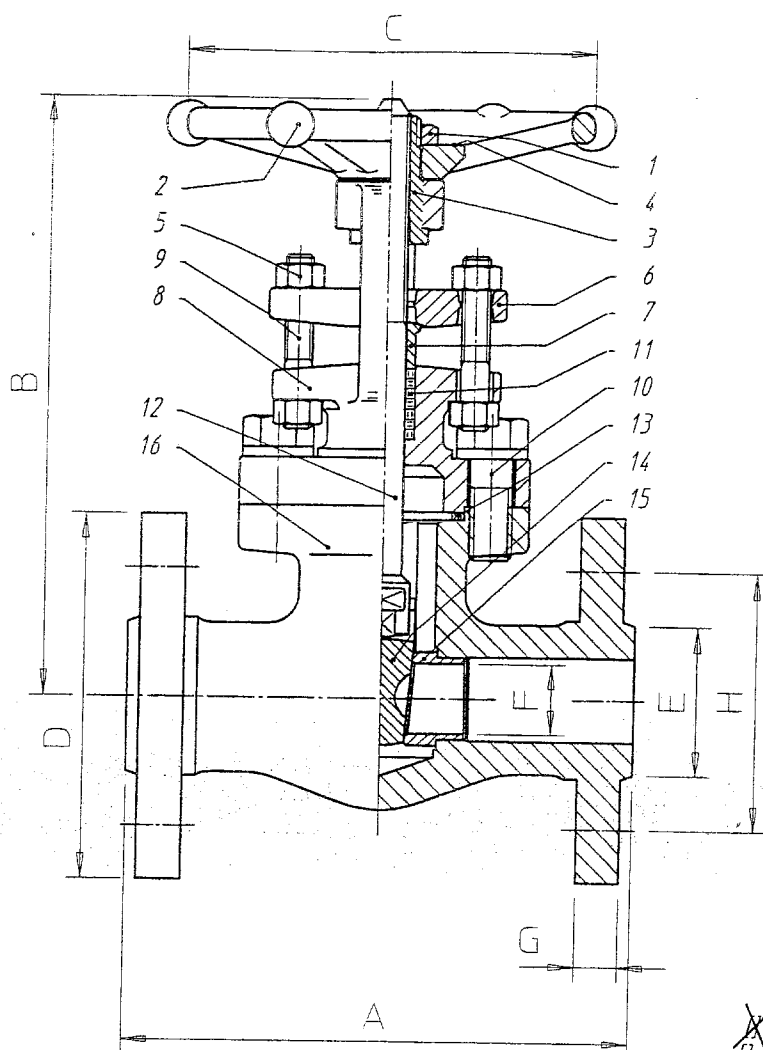
A105N/CR13150LBS

 CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : 5353
 BFE JOB NR : 030408

CUSTOMER CODE: 2202

BFE CODE VALVE

02-19.05.93



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrecc. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A105N
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B7
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione spirale SPW GASKET	F316L + GRAPHITE
14	Otturatore solido SOLID WEDGE	ASTM A182 F6A/ST. 6
15	Seggio SEAT RINGS	A479 410/ST. 6
16	Corpo BODY	ASTM A105N

X SMOOTH FINISH (125 - 250 AARH) (3,2 - 6,3 Ra)
 (I) SERRATED SPIRAL FINISH

COMPONENT KEY VAR : 24003251 0031

MAT. NUMBER : 1058683 (ITEM 250)

MAT. NUMBER : 1053739 (ITEM 260)

SIZE	1/2"	3/4"	1"	1.1/2"	2"			
A	165	191	216	241	292			
B open	158,5	185	215	270	305			
C	88	88	97	138	138			
D	95,5	117,5	124	155,5	165			
E	35	43	51	73	92			
F	9,6	14	18	30	36,6			
G	14,5	16	17,5	22,5	25,5			
H	67	82,5	89	114	127			
n x Ø holes	4x16	4x19	4x19	4x22	8x19			
WEIGHT kg~	4,3	7	10	18	28			
FIGURE N°	L6 103	L6 104	L6 105	L6 107	L6 108			
ITEM		250	260					

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

Draw.: M.Teli 26.4.95
 Appr.: P.Gargiulo 26.4.95
 Revisions A

COMPANY
 WITH

QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001 =

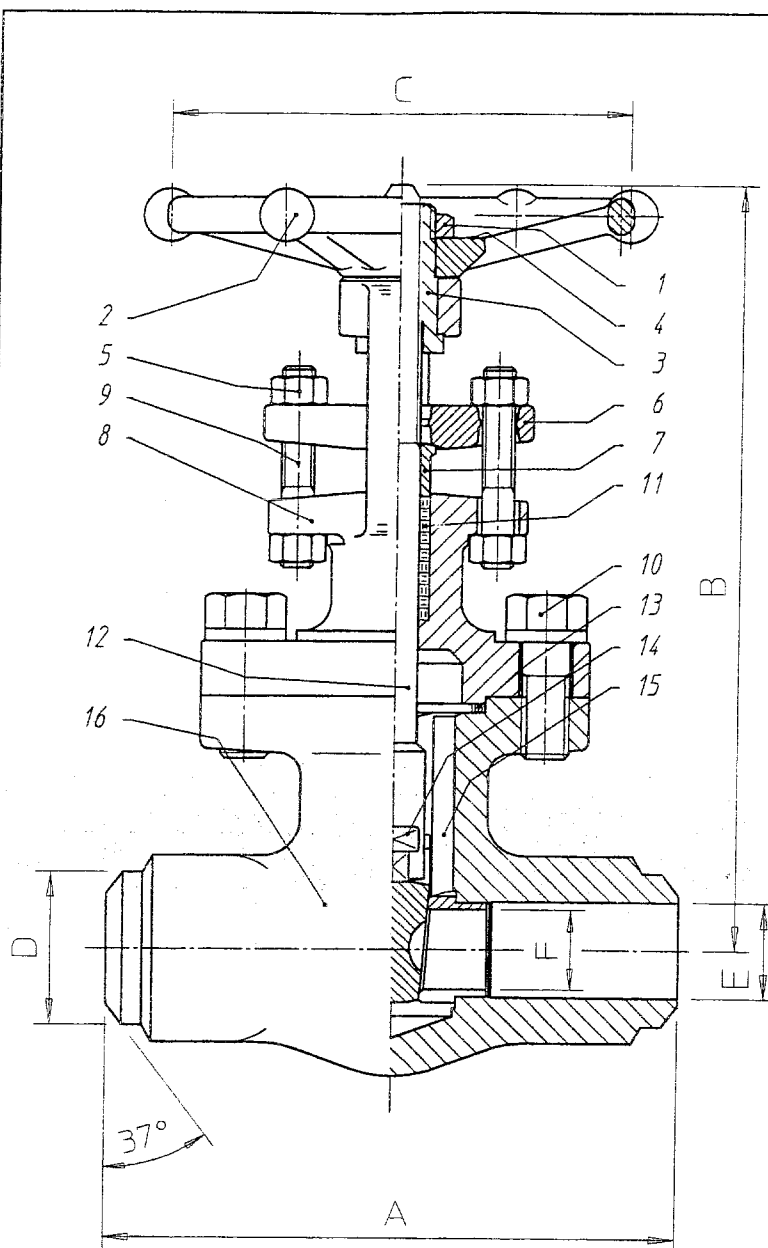
Title : GATE VALVE B.B. O.S. & Y
 INTEGRAL FLANGED ENDS
 CLASS 600 lbs - REDUCED BORE

Reference specification
API 602
BS5352
 Drawing N° : **L6 100** | 029
 A105N/CR13/CR13*600LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
 P.O. NUMBER : 3697
 TAG NR : S354
 BFE JOB NR : 030408

CUSTOMER CODE: 2202

B.F.E. CODE VALVE



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F11 CL.2
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F11 CL.2

BW ENDS FOR PIPE SCH.80
FACE TO FACE ACC.TO ANSI B16.10

COMPONENT KEY VAR : 24004323 0005
MAT. NUMBER : 1054407 (ITEM 280)

SIZE	1/2"	3/4"	1"	1. 1/2"	2"			
A	216	229	254	305	371,5			
B open	215	245	295	345	440			
C	97	138	138	172	230			
D	21,3	26,7	33,4	48,3	60,3			
E	14	19	24,3	38,1	49,2			
F	12	16	19,5	34,5	45			
WEIGHT kg ~	4,7	7,2	9,5	16	28			
FIGURE N°	15H103	15H104	15H105	15H107	15H108			
ITEM				280				

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

Draw.: M.Teli 20.4.95
Appr.: P.Gargiulo 20.4.95
Revisions

COMPANY
WITH

QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

Title :

GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

Reference
specification
EN ISO
15781

Drawing N° :

15H 10B 039

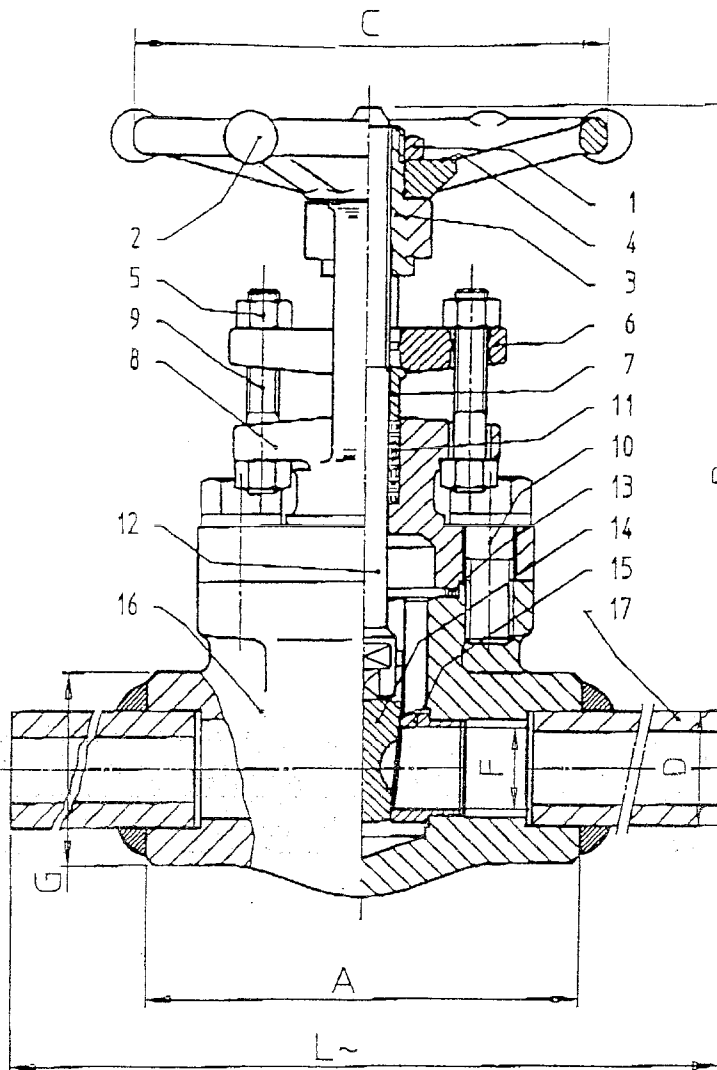
F11/CR13*1500LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
P.O. NUMBER : 3697
TAG NR : S420
BFE JOB NR : 030408

CUSTOMER CODE: 2202

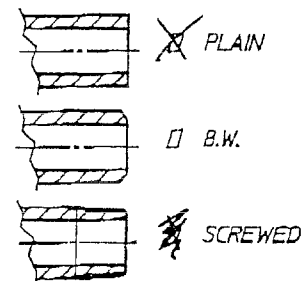
B.F.E. CODE VALVE 187677

915564277



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premireccia GLAND NUTS	ASTM A194 2H
6	Flangia premirecc. GLAND FLANGE	ASTM A105
7	Premireccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F22 CL.3
9	Tiranti premireccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Atturatore WEDGE	A182 F6A/ST.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F22 CL.3
17	Nippli NIPPLES	ASTM A335 P22

NIPPLES END DETAIL:



NIPPLES SCH 160 LENGTH 75

COMPONENT KEY VAR : 24004433 0002
MAT. NUMBER : 1044150 (ITEM 290)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
A	90	90	110	127	127	127	127	210
B open	153	153	190	220	250	282	290	355
C	88	88	97	138	138	138	172	172
D	14,1	17,5	21,7	27,1	33,8	42,5	48,6	61,1
F	8	9,6	14	18	24	30	36,6	48
G	38	38	48	56	64	78	78	85
L~			260	277				
WEIGHT kg~	2,4	2,4	4,1	6,2	8	10,5	11,5	19,5
FIGURE N°	9H 101	9H 102	9H 103	9H 104	9H 105	9H 106	9H 107	9H 108
ITEM			290					

B.F.E. SpA
BONNEY FORGE
VALVE LICENSEE

Draw.: M.Teli 21.3.95
Appr.: P.Gargiulo 21.3.95
Revisions

COMPANY
WITH

Title : GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

CUSTOMER : CUNADO INTERNACIONAL, S.A.
P.O. NUMBER : 3697
TAG NR : S480
BFE JOB NR : 030408

QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001=

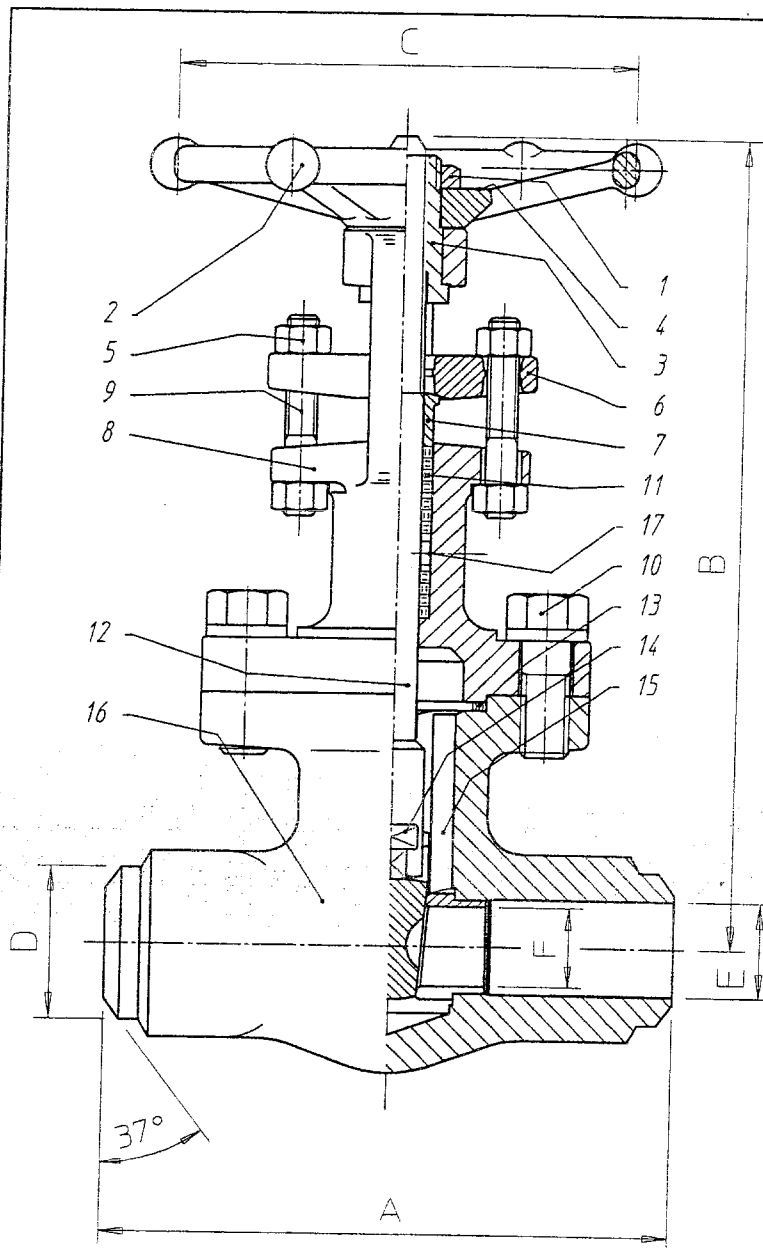
Reference
specification
BS5352

Drawing N° :
9H 100N 026
F22/CR13*1500LBS

CUSTOMER CODE: 2202

B.F.E. GATE VALVE 186091

Order 16.05.03 4/20



POS	PART NAME	MATERIAL
1	Dado volante HANDWHEEL NUT	CARBON STEEL
2	Volantino HANDWHEEL	ASTM A 105
3	Madrevite YOKE SLEEVE	AISI 416
4	Targhetta NAME PLATE	ALUMINIUM
5	Dado premitreccia GLAND NUTS	ASTM A194 2H
6	Flangia premitrec. GLAND FLANGE	ASTM A 105
7	Premitreccia PACKING GLAND	UNS S31603
8	Coperchio BONNET	ASTM A182 F22 CL.3
9	Tiranti premitreccia GLAND STUDS	ASTM A193 B6
10	Bulloni C/C B/B BOLTS	ASTM A193 B16
11	Baderna PACKING	GRAFOIL WITHOUT PTFE
12	Stelo STEM	ASTM A479 410
13	Guarnizione C/C B/B GASKET	F316L + GRAPHITE
14	Otturatore WEDGE	ASTM A182 F6A/SI.6
15	Seggio SEAT RINGS	A479 410/ST.6
16	Corpo BODY	ASTM A182 F22 CL.3
17	Lanterna LANTERN RING	ASTM A479 410

BW ENDS FOR PIPE SCH.80
FACE TO FACE ACC.TO ANSI B16.10

COMPONENT KEY VAR : 24054433 0002
MAT. NUMBER : 1057862

SIZE	1/2"	3/4"	1"	1.1/2"	2"			
A	216	229	254	305	371,5			
B open	215	245	295	345	440			
C	97	138	138	172	230			
D	21,3	26,7	33,4	48,3	60,3			
E	14	19	24,3	38,1	49,2			
F	12	16	19,5	34,5	45			
WEIGHT kg ~	4,7	7,2	9,5	16	28			
FIGURE N°	15H103	15H104	15H105	15H107	15H108			
ITEM			300					



B.F.E. Sp.A.
BONNEY FORGE
VALVE LICENSEE

Draw.:	M.Teli	20.4.95
Appr.:	P.Gargiulo	20.4.95
Revisions	A	

COMPANY
WITH

QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

Title :

GATE VALVE B.B. O.S. & Y
CLASS 1500 lbs - FULL BORE

Reference
specification
BS5352

Drawing N° :

15H 10B-LV06 024

F22/CR13/CR13*1500LBS

CUSTOMER : CUNADO INTERNACIONAL, S.A.
P.O. NUMBER : 3697
TAG NR : S491
BFE JOB NR. : 030408

CUSTOMER CODE: 2202

B.F.E. CODE VALVE 187438