



|     |                     |         |         |             |   |              |         |  |         |
|-----|---------------------|---------|---------|-------------|---|--------------|---------|--|---------|
| 3   | ISSUE FOR ORDER     |         |         |             |   |              |         |  |         |
| 2   | ISSUE FOR JOB 1E35  |         |         |             |   |              |         |  | 11/11/1 |
| 1   | For Order n° 241435 | S.T.I.  |         | Galimberti  |  | G.Ruzzenenti |         |  | 07/2004 |
| 0   | ISSUE               | S.T.I.  |         | Galimberti  |  | G.Ruzzenenti |         |  | 06/2004 |
| REV | DESCRIZIONE         | NOME    | FIRMA   | NOME        | FIRMA   | NOME         | FIRMA   |  |         |
| REV | DESCRIPTION         | NAME    | SIGNAT. | NAME        | SIGNAT.   | NAME         | SIGNAT. |  | DATA    |
|     |                     | REDATTO |         | CONTROLLATO |   | APPROVATO    |         |  | DATE    |
|     |                     | BY      |         | CHECKED     |   | APPROVED     |         |  |         |



BALLESTRA S.p.A.  
MILANO (ITALIA)

## INSTRUMENT SPECIFICATION

(1E35.80.015)

DWG. : 2C57.80.011

CUSTOMER:

SHEET : 2

PLANT: SULPHUREX

OF :

JOB: 2 C 57 (1E35)

Code : 2C57-BH.xls

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### HANDLE BALL VALVES

#### Caratteristiche generali - General characteristics

QUANTITY : n° 3

**Sigla della valvola - Valve tag** : HV -25.1; HV-25.2; HV-25.3  
**Linea installazione valvola - Valve installation line** : 25-ZF-25001 ( Delivery 25P1 & 25P2 )

**Tipo valvola - Valve type** : Sfera - Ball ( STD BALLESTRA S121 )

Valvola manuale a tenuta perfetta (tipo a sfera) ( 2 )  
*Manual valve with tight shut-off (ball type)*

#### Condizioni di esercizio - Operating conditions

**Fluido di processo - Process fluid** : SULPHUR  
**Pressione di esercizio - Operating pressure** : Norm.= 6 barg MAX : 10  
**Temperatura di esercizio - Operating temperature** : 151 °C

#### Materiali - Materials

**Corpo - Body** : CARBON STEEL  
**Stelo - Stem** : AISI-304  
**Otturatore - Trim** : AISI-304  
**Anello di tenuta - Seal ring** : PTFE + GLASS

#### Dimensioni - Size and rating

**Diametro nominale - Nominal diameter** : DN - 2"  
**Attacchi - Connections** : SEE NOTE 1  
**Rating** : SEE NOTE 1

#### Accessori - Accessoires

N° 2 Finecorsa per segnalare le posizioni aperta e chiusa della valvola  
*N° 2 Limit switches to signal the positions open-closed of valve*

**Costruttore - Manufacturer** : SEE SHEET -3  
**Modello - Model** : SEE SHEET -3  
**Tipo contatto - Contacts type** : SEE SHEET -3  
**Campo - Rating** : 24 V d.c.  
**Sigla - Tag** : ZS-25.1 o/c to ZS-25.3 o/c

#### Note :

(1) Ball valve type wafer installed between flanges  
ANSI-150# RF

(2) Complete with HEATING JACKET Connection:1/2" NPT-F

#### PURCHASING DATA

**Manufacturer** : ADLER  
**Model** : FX 2  
**Supplier** : ADLER  
**Order n°** : 291319



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### BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION

#### THECNICAL CHARACTERISTICS

Box protection degre : IP 66  
Material : ALUMINIUM PRESS. DIE-CASTING  
Colour : BLACK  
Electrical execution : WATERPROOF  
Electrical connection : N° 3 - NPT-F 1/2"

#### COMPLETE WITH THE FOLLOWING COMPONENTS

##### 1. POSITION INDICATOR

Two colours : RED - CLOSED / GREEN - OPEN  
Material : POLICARBONATE  
Mechanically integral with the shaft of the valve

##### 2. ACTUATING CAMS

With rotation angles from 0 to 90°

##### 3. TERMINAL BOARD

Prewired with N° 9 terminals of 2,5 mm2  
Colour : STANDARD

##### 4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N° 2 : PROXIMITY SWITCH  
Manufacturer : PEPPERL + FUCHS  
Model : NCN4 - 12GM - 40Z0  
Electrical certification :

##### 5. FIXING BRACKET OF THE BOX COMPLETE OF THE BOLTS FOR FIXING NAMUR MECHANICAL CONNECTION

Material : STAINLESS STEEL

Note :

#### PURCHASING DATA

MANUFACTURER : AUTOMAX  
MODEL : WDC0217201 / BTA  
SUPPLIER : ADLER  
ORDER N° : 291319

# INSTRUMENT SPECIFICATION

(1E35.80.015)

DWG. 1A12.80.035

CUSTOMER:

SH.

PLANT: SULPHUREX

OF

JOB: 1A12

Computer code: MVS1A12.xls

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## MANUAL OPERATED VALVES

### Caratteristiche generali - General characteristics

Sigla della valvola - Valve tag : HV 16.18

Linea installazione valvola - Valve installation line :

Tipo valvola - Valve type : S127 - A

Valvola manuale a tenuta perfetta

Manual valve with tight shut-off

### Condizioni di esercizio - Operating conditions

Fluido di processo - Process fluid : AS - Instrument air

Pressione di esercizio - Operating pressure : 7 Bar

Temperatura di esercizio - Operating temperature : 30 °C

### Materiali - Materials

Corpo - Body : CARBON STEEL GALVANIZED

Stelo - Stem : AISI 304

Sfera - Ball : AISI 304

Anello di tenuta - Seal ring : PTFE

### Dimensioni - Size and rating

Diametro nominale - Nominal diameter : 1"

Attacchi - Connections : ANSI 150 RF

### Accessori - Accessoires

N° 2 Finecorsa per segnalare le posizioni aperta e chiusa della valvola

N° 2 Limit switches to signal the positions open-closed of valve

Costruttore - Manufacturer

: Siemens

Modello - Model

: 3SE02801C

Contacts type : SPDT rating 24Vdc - 2,5A

Tropicalizzazione - Tropicalization : Required

Note :

| REV. | DESCRIPTION        | DATE  | BY   | APPR. | PURCH. DATA  |        |  |  |
|------|--------------------|-------|------|-------|--------------|--------|--|--|
| 4    |                    |       |      |       | Manufacturer | ALFA   |  |  |
| 3    | ISSUE FOR JOB 2C57 |       |      |       | Model        | A 10N  |  |  |
| 2    | ORDER 241571       |       |      |       | Supplier     |        |  |  |
| 1    | Issue for order    | 11.97 | M.A. |       | ORDER        | 291323 |  |  |
| 0    | Issue for tender   | 11.97 | M.A. |       |              |        |  |  |