

## INSTRUMENTS SPECIFICATION SPECIFICA STRUMENTI

Specific Sheet

Specification N°
Specifica N°

1E35-80-1115

Customer - Cliente :

Plant - *Impianto* 

Job - Commessa

SABIZ 25000 Kg / h 1E35Z

Foglio Rev. 1 of 5

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### **RESISTANCE BULBS**

### **Termoresistenze**

## **Desmet Ballestra Supply**

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| REV. 0 | х | х | Х |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 1 | х |   |   | х | х |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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| REV. 0 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

| 2    | ISSUE FOR ORDER n. 101916 - STA | RCL    | 25,10,10 |
|------|---------------------------------|--------|----------|
| 1    | ISSUE FOR BID - Sh. 4 - 5       | RCL    | 06.10.10 |
| 0    | ISSUE FOR ORDER n.101663 - STA  | RCL    | 27.09.10 |
| REV  | Issue Description               | Author | Date     |
| Rev. | Descrizione                     | Autore | Data     |
|      |                                 |        |          |

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# BALLESTRA S.P.A. MILANO (ITALIA)

### **INSTRUMENT SPECIFICATION**

DWG. 1E35-80-1115

CUSTOMER:

PLANT: JOB: SABIZ 25000 Kp/h 1E35Z REV.

O 2C57TR.xls

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#### **THERMORESISTANCES**

|               |  | TILINION     |          |              |          |  |            |   |                 |   |          |
|---------------|--|--------------|----------|--------------|----------|--|------------|---|-----------------|---|----------|
| 1             | SPECIFICATION                              |              |          | 26           |          |  |            | ELEMEN                                  | Т               |   |          |
| 2             |  |              |          | 27           | Sheet i  | materi                                   | al         |   |                 |   |          |
| 3 Thermome    | etric pocket from PIPE                     |              |          | 28           |          | AISI                                     | 316        | ☐ INCONEL                               | ☐ NICK          | EL  |          |
| 4 Type        | ST 75002 F                                 |              |          | 29           | Dimen    | sions (                                  | 0.D.       | )                                       | ☐ 6,35 r        | nm  | 1        |
| 5 Material    | AISI 316 see note                          |              |          | 30           |          |  |            |   | MFR.            | STD.  | l        |
| 6             | 2 DE 20 DE DO DOS DOS DOS DOS DOS DES DE 1 |              |          | 31           | Insulat  | ion                                      |            | Magnesiu                                | ım oxide        |   | ŀ        |
| 7             | HEAD                                       |              |          | 32           |          |  |            | Scaling w                               | vith resin      |   |          |
| 8             |  |              |          | 33           |          |  |            | ☐ Ceramic                               |                 |   | - 1      |
| 9 Cover       | Screw.  Other                              |              |          | 34           |          |  |            |   |                 |   | ļ        |
| 10 Material   | ■ Al Alloy □ Cast iron                     |              |          | 35           |          |  |            |   |                 |   | 1        |
| 11 Enclosure  |  | ☐ Tropicaliz | ed       | 36           |          |  | R          | ESISTANCE                               | BULBS           |   |          |
| 12 Electrical |  |              |          | 37           |          |  |            |   |                 |   |          |
| 13 construct  |  |              |          | 1 1          | Туре     |  | Star       | ıdard                                   | Туре            | sensitiv  | e l      |
| 14            | **********                                 | Group        |          | 1 1          |          |  |            | lenght)                                 | MFR             |   |          |
| 15 Feeding    | 24V dc From PLC                            |              |          |              |          |  |            | ☐ DIN 43760                             |                 | Pt 100 oh                                       | m        |
| 16            | on the special control to be set           |              |          | 1 1          |          |  |            | rial                                    | Glas            |   |          |
| 17            | CONNECTIONS                                |              |          | 42           |          | -  |            |   |                 | amic  |          |
| 18 To weel    | ■ 1/2" GAS-F □                             |              |          | 43           | Lengh    |  | ********** |   | .шоо            |   |          |
| 19 To condu   |  | BAS_F        |          | 44           | LC, igii |  |            | _                                       |                 |   |          |
| 20            | 1/2 GAS <b>3</b> /4 C                      | ארט-ו        |          | 45           | K        |  | <u>U</u>   | → <del>←</del> =                        | <del>&gt;</del> |   |          |
| 4             | als on terminal block                      |              |          | 46           |          |  |            | :                                       | _               | _   |          |
| 22            | 2 <b>3</b> 3 4 1                           |              |          | 47           |          | <del></del>                              |            | <u></u> ЫП                              | $-\Box$         |   |          |
| _             | block material Cera                        | ımic         |          | 48           | <u> </u> | pts 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | <u> </u>   |   | —[]             |   |          |
| 1 1           | spring Yes No                              | urno         |          | 49           |          |  |            |   | Ψ.              |   |          |
|               | spining res 110                            |              |          | 50           |          |  |            |   |                 |   |          |
| 25            |  | Temperature  |          |              | nent     | 7  | ype        | 2nd Elem.                               | Lenght          | (pos.43)  | T        |
|               |  | Range        |          |              | lient.   |  | ype        | Tag n°                                  |                 | (pos.40)<br>Im                                  | -        |
|               |  | range        | <i>-</i> | ပ            | ١.       | <u>.</u>                                 |            | ragii                                   |                 |   |          |
| T             | Comics 8 Location                          |              | Ĭį.      | å.           | . :      | <u> </u>                                 | <u>e</u>   |   |                 |   | ွ        |
| Tag n°        | Service & Location                         |              | Operfing | remp. °C     | Type     | Single                                   | Double     |   |                 |   | Notes    |
|               |  | °C           | 0        | <u> </u>     | IE' F    | - 107                                    |            |   | U               | E   | <u>Z</u> |
|               |  |              |          |              |          | 🖳  |            |   |                 |   | (4) (6)  |
| TET-64.9/A    | TOP 64AT1                                  | 0 - 250      | 90       | - 165        | A        |  |            |   | 500             | 150   | (1)(2)   |
|               |  |              |          |              |          |  |            |   |                 |   |          |
| TET-64.9/B    | TOP 64AT1                                  | 0 - 250      | 90       | - 165        | A        |  |            | *************************************** | 500             | 150   | (1)(2)   |
|               |  |              |          |              |          |  |            |   |                 |   |          |
| TET-64.9/C    | TOP 64AT1                                  | 0 - 250      | 90       | - 165        | A        |  |            |   | 500             | 150   | (1)(2)   |
|               |  |              |          |              |          |  |            |   |                 |   |          |
|               |  | ļ            | ļ        |              |          |  |            |   |                 |   |          |
|               |  |              | <u> </u> |              |          |  |            |   |                 | <u> </u>  |          |
| Accessories   | s: See Note (1) & (2)                      |              |          | A            | = F      | PT - PI                                  | _ATIN      | IUM 100 ohm                             | 0°C             |   |          |
|               |  |              |          |              |          |  |            |   |                 |   |          |
| Model:        |  |              |          | <del> </del> |          |  |            |   |                 |   |          |
| Notes: (1)    | RTD complete with thermowell (r            |              | e)       |              |          |  | P          | URCHASING                               | DATA            | and the set of the set of the set of the set of |          |
|               | in AISI 316, process connection            | 1"NPT-M      |          | - 1          | nufactu  | er                                       | ;          | STA                                     |                 |   |          |
|               | lagging extension "2"                      |              |          | Mod          |          |  | :          |   | AQ-HTR          |   |          |
| 1 ' '         | Converter / Transmitter 4-20 mA            |              |          | 1 '          | oplier   |  | :          | ATE                                     |                 |   |          |
|               | head-two wire technology. Model            | "INOR"       |          | Orc          | ler n°   |  | :          | 101663                                  |                 |   |          |



# INSTRUMENT SPECIFICATION SPECIFICA STRUMENTI

Customer - Cliente :
Plant - Impianto : SABIZ 25000

Job - Commessa

SABIZ 25000 Kg/h 1E35Z

Foglio Rev.

**4** of

1E35-80-1115

Sheet

Specifica N°

Specification N°

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| Rev.  |  | SPECIFICATION   |  |                    | D             |               |        | Take It N              |   | FIF                             | BACNIT                   |  |       |
|-------|--|---|--|--------------------|---------------|---------------|--------|------------------------|---|---------------------------------|--------------------------|--|-------|
| Rev.  |  | SPECIFICATION   |  |                    | Rev.          | 1             | aet m  | aterial                |   | ELE                             | MENT                     |  |       |
|       | Thermometric<br>Connections<br>Material  | pocket from from PII THD. 1" NPT-M AISI 316L  | PE   |                    |               | Dim           | nensio | AISI<br>ons ( 0        | 316   |                                 | ONEL _                   | NICKEL<br>6 mm<br>Mfr Std                                    |       |
|       |  | HEAD  |  |                    |               | Insu          | ulatio | n                      |   | Scal                            | nesium ox<br>ing with re |  |       |
|       | Cover  | Screw.  Other   |  |                    |               |               |        |                        |   | Cera                            | mic<br>                  |  |       |
|       | Material Enclosure Electrical  | Al Alloy ☐ Cast iron W.Proof ☐ IP 65 ☐ EEx-d ☐ EEx-ia-li  | Tropicaliza  | ed                 |               |               |        |                        | ı   | RESISTAI                        | NCE BUL                  | BS   |       |
|       | construct.   |   |  |                    |               | Тур           |        | ione (                 |   | Standard                        | d <b>I</b>               | Type sensitive<br>M's Std                                    |       |
|       | Feeding  | 24V dc (tecnica a 2 fili) from  | Group<br>n Controller                              |                    |               | Cha           | aract  | eristic<br>bulb        | cs  | DIN EN 6                        | 0751 cl: A               | Ms Std<br>N ■ Pt 100 Ω<br>Glass                              |       |
|       |  | CONNECTIONS   |  |                    |               |               | 9      |                        |   |                                 |                          | Ceramic  |       |
|       | To weel<br>To conduit  | ■ 1/2" NPT-M □<br>□ 1/2" NPT-F ■ 3/4  | <br>" NPT-F  |                    |               |               |        |                        |   |                                 |                          |  |       |
|       | Terminals on  2 Terminal block Loading spring  |   | ramic  |                    |               | Len           | ights  | :                      | U   | <b>→</b>                        | <u>E</u>                 |  |       |
|       |  |   |  |                    |               |               |        |                        |   |                                 |                          |  |       |
| Rev.  |  |   | Transmitter Calibr. Range                          | Eler               |               | T             | уре    | Prod                   |   |                                 | ghts                     |  |       |
| Rev.  | Tag Number   | Service & Location  | Transmitter<br>Calibr. Range                       | Oper. Temp. °C III | Type Thermor. | Single        | Double | Proof<br>Conr          |   |                                 | ghts<br>nm<br>E          | P&l Dwg.   | Notes |
| Rev.  |  | Service & Location  | Calibr. Range                                      | Oper. Temp. °C     | Type Thermor. |               | Double | Conr                   | nect.   | m                               | E                        | P&I Dwg.   | Notes |
| Rev.  | Tag Number   | Service & Location  SLURRY IN 63A1A   | Calibr. Range                                      | ာ့                 |               | Single        | Double | Flange                 | nect.   | m                               | ım                       | P&I Dwg.<br>1E35.10.1104                                     | Notes |
| Rev.  |  |   | Calibr. Range                                      | Oper. Temp. °C     | Type Thermor. | Single        | Double | Llange                 | Class   | U                               | E                        |  |       |
| Rev.  | TET 63.1A  | SLURRY IN 63A1A   | °C   | Oper. Temp. °C     | Type Thermor. | Single        | Double | Llange                 | Class   | U 340                           | E 150                    | 1E35.10.1104   | 1-2   |
| Rev.  | TET 63.1A TET 63.1B  | SLURRY IN 63A1A<br>SLURRY IN 63A1B  | °C 0-120   | 2° dmer. Temp. °C  | Type Thermor. | Single        | Double | Llange                 | Class   | U<br>340<br>340                 | E 150                    | 1E35.10.1104<br>1E35.10.1104                                 | 1-2   |
| Rev.  | TET 63.1A TET 63.1B TET 63.2   | SLURRY IN 63A1A SLURRY IN 63A1B SLURRY IN 63V1  | °C 0-120 0-120 0-120                               | 2°. cmp. Temp. °C  | Type Thermor. | Single        | Double | Llange                 | Class   | 340<br>340<br>340               | 150<br>150               | 1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104                 | 1-2   |
| Rev.  | TET 63.1A  TET 63.1B  TET 63.2  TET 63.3   | SLURRY IN 63A1A SLURRY IN 63A1B SLURRY IN 63V1  | °C 0-120 0-120 0-120                               | 2°. cmp. Temp. °C  | Type Thermor. | elgnis Single | Double | Conr                   | sser  | 340<br>340<br>340               | 150<br>150<br>150        | 1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104 | 1-2   |
| А     | TET 63.1A  TET 63.1B  TET 63.2  TET 63.3   | SLURRY IN 63A1A  SLURRY IN 63A1B  SLURRY IN 63V1  SLURRY IN 63A2  | °C 0-120 0-120 0-120                               | 2°. cmp. Temp. °C  | Type Thermor. | elgnis Single | Double | Conr                   | ssed of the state | 340<br>340<br>340<br>340        | 150<br>150<br>150        | 1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104 | 1-2   |
| A     | TET 63.1A  TET 63.1B  TET 63.2  TET 63.3  = PT - PLA  marks Thermoresistis               | SLURRY IN 63A1A  SLURRY IN 63A1B  SLURRY IN 63V1  SLURRY IN 63A2  | °C  0-120  0-120  0-120  tter, 4-20mA signa        | Oper. Temp. °C     | Type Thermor. | e Single      | elano  | Conr                   | ssed of the state | 340<br>340<br>340<br>340<br>40  | 150<br>150<br>150        | 1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104 | 1-2   |
| A Ren | TET 63.1A  TET 63.1B  TET 63.2  TET 63.3  = PT - PLA  marks  Thermoresistis programmable | SLURRY IN 63A1A  SLURRY IN 63A1B  SLURRY IN 63V1  SLURRY IN 63A2  TINUM 100 ohm 0°C  stance complete with Transmit, with linearization, up scale bunce complete with well, type T | °C  0-120  0-120  0-120  tter, 4-20mA signaum out. | Oper. Temp. °C     | Type Thermor. | eguis<br>     | elano  | Conr  BBusilia  Pturer | rect.   | 340<br>340<br>340<br>340<br>HOL | 150<br>150<br>150        | 1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104<br>1E35.10.1104 | 1-2   |



## INSTRUMENT SPECIFICATION SPECIFICA STRUMENTI

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Sheet

: **5** of

Customer - Cliente Plant - Impianto

Job - Commessa

: SABIZ 25000 Kg/h : 1E35Z Foglio Rev. \_

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|----------|---|---|------------------------------------|--------------------|---------------|--------------|--|-------------------|---------------|----------------------|-------------------|----------------------------|-------|
|          |   |   |                                    |                    |               | She          | et ma  | aterial           |               |                      |                   |                            |       |
|          | Thermometric<br>Connections<br>Material                 | pocket from from PIP THD. 1" NPT-M AISI 316L  | E                                  |                    |               |              |  | AISI<br>ons (     |               |                      | ONEL   Onesium ox | 6 mm<br>Mfr Std            |       |
|          |   | HEAD  |                                    |                    |               | 11100        | alatio   |                   |               |                      | ing with re       |                            |       |
|          | Cover<br>Material                                       | Screw. Other  Al Alloy Cast iron  |                                    |                    |               |              |  |                   |               |                      | •••••             |                            |       |
|          | Enclosure Electrical construct.                         | W.Proof ■ IP 65 □ EEx-d □ EEx-ia-III  | Tropicalize C-T6                   | ed                 |               | Тур          | e  |                   |               | RESISTAI<br>Standard |                   | BS Type sensitive          |       |
|          | Feeding   | Class Divis. 24V dc (tecnica a 2 fili) from   | Group<br>Controller                |                    |               | Dim<br>Cha   | nensi<br>aract   | ions (<br>eristic | o.d./<br>cs   | /lenght)<br>DIN EN 6 |                   | M's Std  A Pt 100 Ω  Glass |       |
|          |   | CONNECTIONS   |                                    |                    |               |              |  |                   |               |                      |                   | Ceramic                    |       |
|          | To weel<br>To conduit                                   | ■ 1/2" NPT-M □<br>□ 1/2" NPT-F ■ 3/4"   | <br>'NPT-F                         |                    |               |              |  |                   |               |                      |                   |                            |       |
|          | Terminals on  2 Terminal block Loading spring           | <del>-</del>  | amic                               |                    |               | Len          | ights  | :                 | U             | <b>→</b> <           | <u>E</u>          |                            |       |
|          |   |   |                                    |                    |               |              |  |                   |               |                      |                   |                            |       |
| Rev.     |   |   | Transmitter                        | Eler               | nent          | T            | уре  | Pro               | cess          | Len                  | ghts              |                            |       |
| Rev.     | Tag Number  | Service & Location  | Transmitter<br>Calibr. Range       | Oper. Temp. °C ਜ਼ੁ | Type Thermor. | Single       | ype  | -                 | cess<br>nect. |                      | ghts<br>im<br>E   | P&I Dwg.                   | Notes |
| Rev.     |   |   | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. |              | Double   | Flange            | nect.         | U                    | E                 |                            |       |
| Rev.     | Tag Number  | 64K2 SUCTION  | Calibr. Range                      | ပွ                 |               | Single       | Double   | Flange            | nect.         | m                    | im                | P&I Dwg.                   | Notes |
| Rev.     |   |   | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. | Single       | □ □ □ Double   | Flange            | Class         | U                    | E                 |                            |       |
| Rev.     |   | 64K2 SUCTION  | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. | Single       | Double   | Flange            | Class         | U                    | E                 |                            |       |
| Rev.     |   | 64K2 SUCTION  | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. | Single       | □ □ □ □ □ Double   | Flange            | Class         | U                    | E                 |                            |       |
| Rev.     |   | 64K2 SUCTION  | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. | Single       | Double Double  | Flange            | Class         | U                    | E                 |                            |       |
| Rev.     |   | 64K2 SUCTION  | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. | Single       | Double   | Flange            | Class         | U                    | E                 |                            |       |
| Rev.     |   | 64K2 SUCTION  | Calibr. Range                      | Oper. Temp. °C     | Type Thermor. | Single       | Double Double  | Flange            | Class         | U                    | E                 |                            |       |
| Rev.     | TET 64.8  | 64K2 SUCTION  | °C 0-100                           | Oper. Temp. °C     | Type Thermor. | Single       | Double   | Flange            | Class         | U                    | E                 |                            |       |
| А        | TET 64.8  | 64K2 SUCTION<br>1300-AT-64019-109   | °C 0-100                           | Oper. Temp. °C     | Type Thermor. | Single       | Double   | Lange             | sseO          | U                    | E 150             |                            |       |
| A        | TET 64.8  = PT - PLA  marks Thermoresistis              | 64K2 SUCTION 1300-AT-64019-109  ATINUM 100 ohm 0°C  | °C 0-100 ter, 4-20mA signa         | Oper. Temp. °C     | Type Thermor. | ej Single    | Double   | Con               | sseO          | U 340                | E 150             |                            |       |
| A Rer 1. | TET 64.8  = PT - PLA  marks Thermoresistis programmable | 64K2 SUCTION 1300-AT-64019-109  ATINUM 100 ohm 0°C  Stance complete with Transmitte, with linearization, up scale but                               | °C 0-100 ter, 4-20mA signarin out. | Oper. Temp. °C     | Type Thermor. | egige<br>Mar | Double of the state of the stat | Con               | sseO          | U 340                | E 150             |                            |       |
| A Rer 1. | TET 64.8  = PT - PLA  marks Thermoresistis programmable | 64K2 SUCTION 1300-AT-64019-109  TINUM 100 ohm 0°C  stance complete with Transmitte, with linearization, up scale busince complete with well, type T | °C 0-100 ter, 4-20mA signarin out. | Oper. Temp. °C     | Type Thermor. | epbijs<br>   | Double   | Con               | sseO          | U 340                | E 150             |                            |       |