



# INSTRUMENTS SPECIFICATION SPECIFICA STRUMENTI

Specification N° : 1E35-80-1148

Specifica N°

Customer - Cliente

:

Sheet : 1 of 12

Plant - Impianto

:

SABIZ 25000 Kg/h

Foglio

Job - Commessa

:

1E35Z

Rev.

:

2

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## ON-OFF BALL VALVES SINGLE ACTING ACTUATOR *Valvole on-off a sfera a semplice effetto*

### Desmet Ballestra Supply

#### REVISIONS INDEX - INDICE DELLE REVISIONI

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|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| REV. 0 | x | x | x | x | x | x | x | x | x | x  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 1 | x |   |   |   |   |   |   |   |   |    | x  | x  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 2 | X |   |   |   |   |   |   |   |   |    | X  | X  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 3 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 4 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| REV. 0 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 2 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REV. 5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

|      |                                     |        |          |
|------|-------------------------------------|--------|----------|
| 2    | ISSUE FOR ORDER n. 102008 - ADLER   | RCL    | 28.10.10 |
| 1    | ISSUE FOR BID - SH.11-12 (KV 64.15) | RCL    | 18.10.10 |
| 0    | ISSUE FOR ORDER n. 101605 - ADLER   | RCL    | 27.09.10 |
| REV  | Issue Description                   | Author | Date     |
| Rev. | Descrizione                         | Autore | Data     |

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# INSTRUMENT SPECIFICATION

DWG. : 1E35-00-1148

CUSTOMER:

SH. : 2

PLANT:

SABIZ 25000 Kg/h

REV. : 0

JOB:

1E35Z

Code :

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## ON-OFF BALL VALVE SINGLE EFFECT

### Caratteristiche generali - General characteristics

- **Sigla della valvola - Valve tag** : TV-63.1 A
- Linea installazione valvola - Valve installation line : 1"-VB-63151-205
- **Tipo valvola - Valve type** : Sfera - Ball ( S152 )
- Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a molla per assicurare la posizione di emergenza in mancanza d'aria.
- Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.*
- In mancanza di aria ( emergenza ) la valvola è : ☐ Aperta ☒ Chiusa  
When air is falling ( emergency ) the valve is : Open Closed
- **Condizioni di esercizio - Operating conditions**
- Fluido di processo - Process fluid : STEAM
- Pressione di esercizio - Operating pressure : 6 BAR ABS.
- Temperatura di esercizio - Operating temperature : 164 °C
- **Materiali - Materials**
- Corpo - Body : CARBON STEEL
- Stelo - Stem : AISI 304
- Sfera - Ball : AISI 304
- Anello di tenuta - Seal ring : TEFLON + METAL
- **Dimensioni - Size and rating**
- Diametro nominale - Nominal diameter : 1"
- Attacchi - Connections : ANSI-150-RF
- **Accessori - Accessoires**
- N° 2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola. TAG: ZS-63.1 / A o/c
- N° 2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.
- Costruttore - Manufacturer : See sheet : 10
- Modello - Model : See sheet : 10
- **Attuatore - Pneumatic operator**
- Aria Strumenti - Instruments Air : 4 - 8 Bar
- Pressione comando - Control pressure : 4 - Bar
- Connessioni pneumatiche : 1/4" NPT-F (NAMUR)
- Pneumatic connections
- Costruttore - Manufacturer : AUTOMAX SN-85 SR
- Modello - Model :

### Note :

- 1) Valve complete with junction box, mounted on pneumatic operator, for technical data see sheet 10
- 2) Valve complete of solenoid valve, mounted on pneumatic operator, for technical data see sheet 3

### PURCHASING DATA

Manufacturer : ADLER  
Model : FA 2  
Supplier :  
Order n° : 101605



# INSTRUMENT SPECIFICATION

CUSTOMER:

PLANT:

JOB:

SABIZ 25000 Kg/11  
1E35Z

DWG. : 1E35-80-1148

SH. : 3

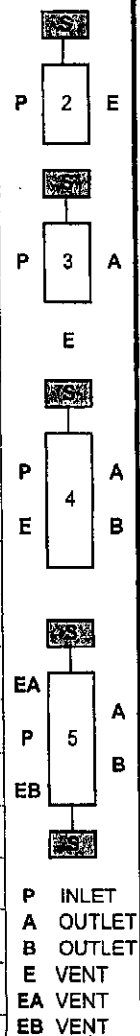
REV. : 0

Code : ---

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## SOLENOID VALVE

|    |  |   |  |                                      |   |  |   |   |  |
|----|--|---|--|--------------------------------------|---|--|---|---|--|
| 1  | Tipo<br>Type   |   | SINGLE SOLENOID                            |                                      | <input type="checkbox"/> 2 Vie<br>2 Way     | <input checked="" type="checkbox"/> 3 Vie<br>3 Way | <input type="checkbox"/> 4 Vie<br>4 Way | <input type="checkbox"/> 5 Vie<br>5 Way |  |
| 2  | Alimentazione Elettrica<br>Power supply  |   | 110V - 50Hz                                |                                      | Classificazione area<br>Area classification |  |   |   |  |
| 3  | Valvola a 2 vie - in mancanza energia elettrica<br>2 way valve - on electric failure |   | <input type="checkbox"/>                   |                                      | WATER PROOF                                 |  |   |   |  |
| 4  | Valvola a 3/4/5 vie<br>Valve at 3/4/5 ways   |   | Solenoid energizzato<br>Solenoid energized |                                      | Via<br>Way                                  | P - A<br>Open                                      | P - E<br>Closed                         | Sfiato<br>Vent                          |  |
| 5  | Sigla<br>Tag   |   | TY-63.1A                                   |                                      |   |  |   |   |  |
| 6  | Servizio<br>Service  |   | COMMAND TV-63.1A                           |                                      |   |  |   |   |  |
| 7  | Dati di processo<br>Process data   | Fluido<br>Fluid                               | INSTRUMENT AIR                             |                                      |   |  |   |   |  |
| 8  |  | Composti corrosivi<br>Corrosive agents        | NO   |                                      |   |  |   |   |  |
| 9  |  | Temperatura<br>Operating temperature          | norm. / max                                | 30 °C                                |   |  |   |   |  |
| 10 |  | Pressione<br>Operating pressure               | norm. / max                                | 7 bar                                |   |  |   |   |  |
| 11 |  | Peso specifico<br>Specific gravity            |  |                                      |   |  |   |   |  |
| 12 |  | Viscosità<br>Viscosity                        | 0,02 Cp                                    |                                      |   |  |   |   |  |
| 13 | Corpo<br>Body  | Portata<br>Flow rate                          |  |                                      |   |  |   |   |  |
| 14 |  | Tenuta perfetta<br>Tight shut-off             | YES  |                                      |   |  |   |   |  |
| 15 |  | CV calcolato<br>Calculated CV                 | CV scelto<br>Selected CV                   |                                      |   |  |   |   |  |
| 16 |  | Dimens. corpo<br>Body size                    | Dimens. sede<br>Port size                  |                                      |   |  |   |   |  |
| 17 |  | Conessioni e rating<br>Rating and connections |  | 1/4" NPT-F ( NAMUR )                 |   |  |   |   |  |
| 18 |  | Materiale corpo<br>Body material              |  | MFR. STD.                            |   |  |   |   |  |
| 19 |  | Materiale sede<br>Seat material               |  | MFR. STD.                            |   |  |   |   |  |
| 20 |  | Materiale baderna<br>Packing material         |  | MFR. STD.                            |   |  |   |   |  |
| 21 |  | Azionata da pilota<br>Pilot operated          |  | YES (INTERNAL)                       |   |  |   |   |  |
| 22 |  | Access.<br>Access.                            | Riarmo manuale<br>Manual reset             | Operatore manuale<br>Manual operator | NO  | YES  |   |   |  |
| 23 | Attacco elettrico<br>Electrical connection   |   | 1/2" GAS-F                                 |                                      |   |  |   |   |  |
| 24 | Tipo di contenitore<br>Housing type  |   | IP 65                                      |                                      |   |  |   |   |  |
| 25 | Tropicalizzazione<br>Tropicalization   |   |  |                                      |   |  |   |   |  |



Note :

## PURCHASING DATA

Manufacturer : ASCO JOUCOMATIC  
Model :  
Supplier : ADLER  
Order n° : 101605



# INSTRUMENT SPECIFICATION

CUSTOMER:  
PLANT: SABIZ 25000 kg/h  
JOB: 1E35Z

DWG. : 1E35-80-114B  
SH. : 4  
REV. : 0  
Code : . . .

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## ON-OFF BALL VALVE SINGLE EFFECT

### Caratteristiche generali - General characteristics

- **Sigla della valvola - Valve tag** : TV-63.1 B
- Linea installazione valvola - Valve installation line : 1"-VB-63153-205
- **Tipo valvola - Valve type** : Sfera - Ball ( S152 )
- Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a molla per assicurare la posizione di emergenza in mancanza d'aria.
- Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.
- In mancanza di aria ( emergenza ) la valvola è : ☐ Aperta ☒ Chiusa  
When air is failing ( emergency ) the valve is : Open Closed
- **Condizioni di esercizio - Operating conditions**
- Fluido di processo - Process fluid : STEAM
- Pressione di esercizio - Operating pressure : 6 BAR ABS.
- Temperatura di esercizio - Operating temperature : 164 °C
- **Materiali - Materials**
- Corpo - Body : CARBON STEEL
- Stelo - Stem : AISI 304
- Sfera - Ball : AISI 304
- Anello di tenuta - Seal ring : TEFLON + METAL
- **Dimensioni - Size and rating**
- Diametro nominale - Nominal diameter : 1"
- Attacchi - Connections : ANSI-150-RF
- **Accessori - Accessoires**
- N° 2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola. TAG: ZS-63.1/B o/c
- N° 2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.
- Costruttore - Manufacturer : See sheet : 10
- Modello - Model : See sheet : 10
- **Attuatore - Pneumatic operator**
- Aria Strumenti - Instruments Air : 4 - 8 Bar
- Pressione comando - Control pressure : 4 - Bar
- Connessioni pneumatiche : 1/4" NPT-F (NAMUR)
- Pneumatic connections
- Costruttore - Manufacturer : AUTOMAX SN-85 SR
- Modello - Model :

### Note :

- 1) Valve complete with junction box, mounted on pneumatic operator, for technical data see sheet 10
- 2) Valve complete of solenoid valve, mounted on pneumatic operator, for technical data see sheet 5

### PURCHASING DATA

Manufacturer : ADLER  
Model : FA 2  
Supplier :  
Order n° : 101605

## INSTRUMENT SPECIFICATION

CUSTOMER:

PLANT: **SABIZ**

JOB: **1E35Z**

DWG. : **1E35-80-1148**

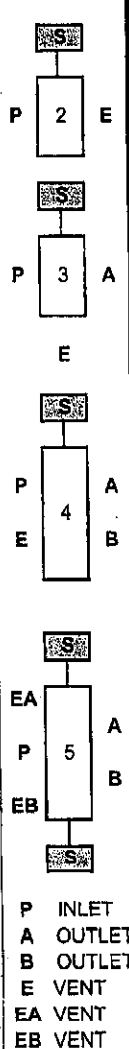
SH. : **5**

REV. : **0**

Code : **5**

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### SOLENOID VALVE

|    |  |  |                                      |   |  |   |  |
|----|--|--|--------------------------------------|---|--|---|--|
| 1  | Tipo<br>Type   | <b>SINGLE SOLENOID</b>                         |                                      | <input type="checkbox"/> 2 Vie<br>2 Way     | <input checked="" type="checkbox"/> 3 Vie<br>3 Way | <input type="checkbox"/> 4 Vie<br>4 Way | <input type="checkbox"/> 5 Vie<br>5 Way  |
| 2  | Alimentazione Elettrica<br>Power supply  | <b>110V - 50Hz</b>                             |                                      | Classificazione area<br>Area classification |  | <b>WATER PROOF</b>                      |  |
| 3  | Valvola a 2 vie - in mancanza energia elettrica<br>2 way valve - on electric failure | <input type="checkbox"/>                       |                                      | Aperta<br>Open                              | <input type="checkbox"/>                           | Chiude<br>Closed                        |  |
| 4  | Valvola a 3/4/5 vie<br>Valve at 3/4/5 ways   | Solenoid energizzato<br>Solenoid energized     | Via<br>Way                           | <b>P - A</b><br>Aperta<br>Open              | <b>P - E</b><br>Aperta<br>Open                     | Chiusa<br>Closed                        | Sfiato<br>Vent   |
| 5  | Sigla<br>Tag   |  |                                      | <b>TY-63.1B</b>                             |  |   |  |
| 6  | Servizio<br>Service  |  |                                      | <b>COMMAND TV-63.1B</b>                     |  |   |  |
| 7  | Dati di processo<br>Process data   | Fluido<br>Fluid                                |                                      |   | <b>INSTRUMENT AIR</b>                              |   |  |
| 8  |  | Composti corrosivi<br>Corrosive agents         |                                      |   | <b>NO</b>  |   |  |
| 9  |  | Temperatura<br>Operating temperature           | norm. / max                          | <b>30 °C</b>                                |  |   |  |
| 10 |  | Pressione<br>Operating pressure                | norm. / max                          | <b>7 bar</b>                                |  |   |  |
| 11 |  | Peso specifico<br>Specific gravity             |                                      |   |  |   |  |
| 12 | Corpo<br>Body  | Viscosità<br>Viscosity                         |                                      |   | <b>0,02 Cp</b>                                     |   |  |
| 13 |  | Portata<br>Flow rate                           |                                      |   |  |   |  |
| 14 |  | Tenuta perfetta<br>Tight shut-off              |                                      |   | <b>YES</b>   |   |  |
| 15 |  | CV calcolato<br>Calculated CV                  | CV scelto<br>Selected CV             |   |  |   |  |
| 16 |  | Dimens. corpo<br>Body size                     | Dimens. sede<br>Port size            |   |  |   |  |
| 17 |  | Connessioni e rating<br>Rating and connections |                                      |   | <b>1/4" NPT-F ( NAMUR )</b>                        |   |  |
| 18 |  | Materiale corpo<br>Body material               |                                      |   | <b>MFR. STD.</b>                                   |   |  |
| 19 |  | Materiale sede<br>Seat material                |                                      |   | <b>MFR. STD.</b>                                   |   |  |
| 20 |  | Materiale baderna<br>Packing material          |                                      |   | <b>MFR. STD.</b>                                   |   |  |
| 21 |  | Azionata da pilota<br>Pilot operated           |                                      |   | <b>YES (INTERNAL)</b>                              |   |  |
| 22 | Access.<br>Access.   | Riarmo manuale<br>Manual reset                 | Operatore manuale<br>Manual operator | <b>NO</b>                                   | <b>YES</b>   |   |  |
| 23 | Attacco elettrico<br>Electrical connection   |  |                                      | <b>1/2" GAS-F</b>                           |  |   |  |
| 24 | Tipo di contenitore<br>Housing type  |  |                                      | <b>IP 65</b>                                |  |   |  |
| 25 | Tropicalizzazione<br>Tropicalization   |  |                                      |   |  |   |  |

Note :

### PURCHASING DATA

Manufacturer : **ASCO JOUCOMATIC**  
Model :  
Supplier : **ADLER**  
Order n° : **101605**



## INSTRUMENT SPECIFICATION

CUSTOMER:

PLANT: SABIZ 25000 Kp/h  
JOB: 1E35Z

DWG. : 1E35-00-1148

SH. : 6

REV. : 0

Code :

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## ON-OFF BALL VALVE SINGLE EFFECT

## Caratteristiche generali - General characteristics

- 1  
2  
3 • **Sigla della valvola - Valve tag** : H/V-62.4  
4 Linea installazione valvola - Valve installation line : DISCHARGE 62 A 1  
5 • **Tipo valvola - Valve type** : Sfera - Ball ( FONDO ) ( S128 )  
6 Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a  
7 molla per assicurare la posizione di emergenza in mancanza d'aria.  
8  
9 Valve with tight shut-off complete with single acting pneumatic actuator and spring return to  
10 assure the emergency position in case of air failure.  
11 ☐ Aperta ☒ Chiusa  
12 In mancanza di aria ( emergenza ) la valvola è : Open Closed  
13 When air is failing ( emergency ) the valve is  
14 • **Condizioni di esercizio - Operating conditions**  
15 Fluido di processo - Process fluid : SLURRY  
16 Pressione di esercizio - Operating pressure : 1 BAR ABS.  
17 Temperatura di esercizio - Operating temperature : 60 °C  
18  
19 • **Materiali - Materials**  
20 Corpo - Body : CARBON STEEL  
21 Stelo - Stem : AISI 304  
22 Sfera - Ball : AISI 304  
23 Anello di tenuta - Seal ring : TEFLON  
24  
25 • **Dimensioni - Size and rating**  
26 Diametro nominale - Nominal diameter : 4"  
27 Attacchi - Connections : ANSI-150-RF  
28 • **Accessori - Accessoires**  
29 N° 2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa  
30 della valvola. TAG: ZS-62.4 o/c  
31 N° 2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.  
32 Costruttore - Manufacturer : See sheet : 10  
33 Modello - Model : See sheet : 10  
34  
35 • **Attuatore - Pneumatic operator**  
36 Aria Strumenti - Instruments Air : 4 - 8 Bar  
37 Pressione comando - Control pressure : 4 - Bar  
38 Connessioni pneumatiche : 1/4" NPT-F (NAMUR)  
39 Pneumatic connections  
40 Costruttore - Manufacturer : AUTOMAX SN 175 SR  
41 Modello - Model :  
42  
43

## Note :

- 1) Valve complete with junction box, mounted on pneumatic operator,  
for technical data see sheet 10  
2) Valve complete of solenoid valve, mounted on pneumatic operator,  
for technical data see sheet 7  
3) Valve complete with " SPACER "

## PURCHASING DATA

Manufacturer : ADLER  
Model : FA 2  
Supplier :  
Order n° : 101605



# INSTRUMENT SPECIFICATION

CUSTOMER:

PLANT: SABIZ 25000 Kg/h  
JOB: 1E35Z

DWG. : 1E35-80-1148

SH. : 7

REV. : 0

Code :

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## SOLENOID VALVE

|    |  |   |                                      |   |  |   |   |   |
|----|--|---|--------------------------------------|---|--|---|---|---|
| 1  | Tipo<br>Type   | SINGLE SOLENOID                               |                                      | <input type="checkbox"/> 2 Vie<br>2 Way     | <input checked="" type="checkbox"/> 3 Vie<br>3 Way | <input type="checkbox"/> 4 Vie<br>4 Way | <input type="checkbox"/> 5 Vie<br>5 Way                         |   |
| 2  | Alimentazione Elettrica<br>Power supply  | 110V - 50Hz                                   |                                      | Classificazione area<br>Area classification |  | WATER PROOF                             |   |   |
| 3  | Valvola a 2 vie - in mancanza energia elettrica<br>2 way valve - on electric failure | <input type="checkbox"/>                      |                                      | <input type="checkbox"/>                    |  | <input type="checkbox"/>                |   |   |
| 4  | Valvola a 3/4/5 vie<br>Valve at 3/4/5 ways   | Solenoid energizzato<br>Solenoid energized    | Via Way                              | P - A                                       | Aperta Open  | Chiude Closed                           | Sfiato Vent   |   |
| 5  | Sigla<br>Tag   | HY-62.4                                       |                                      |   |  |   |   |   |
| 6  | Servizio<br>Service  | COMMAND KV-62.4                               |                                      |   |  |   |   |   |
| 7  | Dati di processo<br>Process data   | Fluido<br>Fluid                               | INSTRUMENT AIR                       |   |  |   | P 2 E   |   |
| 8  |  | Composti corrosivi<br>Corrosive agents        | NO                                   |   |  |   | P 3 A   |   |
| 9  |  | Temperatura<br>Operating temperature          | norm. / max                          | 30 °C                                       |  |   | E   |   |
| 10 |  | Pressione<br>Operating pressure               | norm. / max                          | 7 bar                                       |  |   | P 4 A   |   |
| 11 |  | Peso specifico<br>Specific gravity            |                                      |   |  |   | E   |   |
| 12 |  | Viscosità<br>Viscosity                        | 0,02 Cp                              |   |  |   | P 5 A   |   |
| 13 |  | Portata<br>Flow rate                          |                                      |   |  |   | E   |   |
| 14 |  | Tenuta perfetta<br>Tight shut-off             | YES                                  |   |  |   | P 5 A   |   |
| 15 |  | CV calcolato<br>Calculated CV                 | CV scelto<br>Selected CV             |   |  |   |   | E |
| 16 |  | Dimens. corpo<br>Body size                    | Dimens. sede<br>Port size            |   |  |   |   | B |
| 17 | Corpo<br>Body  | Conessioni e rating<br>Rating and connections |                                      | 1/4" NPT-F ( NAMUR )                        |  |   |   |   |
| 18 |  | Materiale corpo<br>Body material              |                                      | MFR. STD.                                   |  |   |   |   |
| 19 |  | Materiale sede<br>Seat material               |                                      | MFR. STD.                                   |  |   |   |   |
| 20 |  | Materiale baderna<br>Packing material         |                                      | MFR. STD.                                   |  |   |   |   |
| 21 |  | Azionata da pilota<br>Pilot operated          |                                      | YES (INTERNAL)                              |  |   |   |   |
| 22 | Access.<br>Access.   | Riarmo manuale<br>Manual reset                | Operatore manuale<br>Manual operator | NO  | YES  |   |   |   |
| 23 | Attacco elettrico<br>Electrical connection   |   | 1/2" GAS-F                           |   |  |   | P INLET<br>A OUTLET<br>B OUTLET<br>E VENT<br>EA VENT<br>EB VENT |   |
| 24 | Tipo di contenitore<br>Housing type  |   | IP 65                                |   |  |   |   |   |
| 25 | Tropicalizzazione<br>Tropicalization   |   |                                      |   |  |   |   |   |

Note :

## PURCHASING DATA

Manufacturer : ASCO JOUCOMATIC  
Model :  
Supplier : ADLER  
Order n° : 101605

# INSTRUMENT SPECIFICATION

CUSTOMER:

PLANT: **SABIZ 25000 Kg/h**  
JOB: **1E35Z**

DWG. : **1E35-80-1148**  
SH. : **8**  
REV. : **0**  
Code :

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## ON-OFF BALL VALVE SINGLE EFFECT

### Caratteristiche generali - General characteristics

- **Sigla della valvola - Valve tag** : **HV-62.5**
- Linea installazione valvola - Valve installation line : **DISCHARGE 62 A 1 / A**
- **Tipo valvola - Valve type** : **Sfera - Ball ( FONDO ) ( S128 )**
- Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a molla per assicurare la posizione di emergenza in mancanza d'aria.
- Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.*
- In mancanza di aria ( emergenza ) la valvola è : ☐ Aperta ☒ Chiusa  
*When air is failing ( emergency ) the valve is*  
*Open Closed*
- **Condizioni di esercizio - Operating conditions**
- Fluido di processo - Process fluid : **SLURRY**
- Pressione di esercizio - Operating pressure : **1 BAR ABS.**
- Temperatura di esercizio - Operating temperature : **60 °C**
- **Materiali - Materials**
- Corpo - Body : **CARBON STEEL**
- Stelo - Stem : **AISI 304**
- Sfera - Ball : **AISI 304**
- Anello di tenuta - Seal ring : **TEFLON**
- **Dimensioni - Size and rating**
- Diametro nominale - Nominal diameter : **4"**
- Attacchi - Connections : **ANSI-150-RF**
- **Accessori - Accessolres**
- N° 2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola. **TAG: ZS-62.5 o/c**
- N° 2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.*
- Costruttore - Manufacturer : See sheet : 10
- Modello - Model : See sheet : 10
- **Attuatore - Pneumatic operator**
- Aria Strumenti - Instruments Air : **4 - 8 Bar**
- Pressione comando - Control pressure : **4 - Bar**
- Connessioni pneumatiche : **1/4" NPT-F (NAMUR)**
- Pneumatic connections*
- Costruttore - Manufacturer : **AUTOMAX SN 175 SR**
- Modello - Model :

### Note :

- 1) Valve complete with junction box, mounted on pneumatic operator, for technical date see sheet 10
- 2) Valve complete of solenoid valve, mounted on pneumatic operator, for technical date see sheet 9
- 3) Valve complete with " SPACER "

### PURCHASING DATA

Manufacturer : **ADLER**  
Model : **FA 2**  
Supplier :  
Order n° : **101605**



# INSTRUMENT SPECIFICATION

CUSTOMER:  
PLANT: **SABIZ 25000 Kg/h**  
JOB: **1E35Z**

DWG. : **1E35-80-1148**  
SH. : **9**  
REV. : **0**  
Code :

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## SOLENOID VALVE

|    |  |   |   |       |   |  |   |   |  |
|----|--|---|---|-------|---|--|---|---|--|
| 1  | Tipo<br>Type   |   | <b>SINGLE SOLENOID</b>                      |       | <input type="checkbox"/> 2 Vie<br>2 Way     | <input checked="" type="checkbox"/> 3 Vie<br>3 Way | <input type="checkbox"/> 4 Vie<br>4 Way                         | <input type="checkbox"/> 5 Vie<br>5 Way |  |
| 2  | Alimentazione Elettrica<br>Power supply  |   | <b>110V - 50Hz</b>                          |       | Classificazione area<br>Area classification |  | <b>WATER PROOF</b>  |   |  |
| 3  | Valvola a 2 vie - in mancanza energia elettrica<br>2 way valve - on electric failure |   | <input type="checkbox"/>                    |       | Apri<br>Open                                |  | Chiude<br>Closed  |   |  |
| 4  | Valvola a<br>3/4/5 vie<br>Valve at<br>3/4/5 ways                                     |   | Solenoido energizzato<br>Solenoid energized |       | Via<br>Way                                  | P - A<br>Open                                      | P - E<br>Closed   | Sfiato<br>Vent                          |  |
| 5  | Sigla<br>Tag   |   | <b>HY-62.5</b>                              |       |   |  |   |   |  |
| 6  | Servizio<br>Service  |   | <b>COMMAND KV-62.5</b>                      |       |   |  |   |   |  |
| 7  | Dati di processo<br>Process data   | Fluido<br>Fluid                               | <b>INSTRUMENT AIR</b>                       |       |   |  | P 2 E   |   |  |
| 8  |  | Composti corrosivi<br>Corrosive agents        | <b>NO</b>                                   |       |   |  |   |   |  |
| 9  |  | Temperatura<br>Operating temperature          | norm. / max                                 | 30 °C |   |  |   |   |  |
| 10 |  | Pressione<br>Operating pressure               | norm. / max                                 | 7 bar |   |  |   |   |  |
| 11 |  | Peso specifico<br>Specific gravity            |   |       |   |  |   |   |  |
| 12 | Corpo<br>Body  | Viscosità<br>Viscosity                        | <b>0,02 Cp</b>                              |       |   |  | E   |   |  |
| 13 |  | Portata<br>Flow rate                          |   |       |   |  |   |   |  |
| 14 |  | Tenuta perfetta<br>Tight shut-off             | <b>YES</b>                                  |       |   |  | P 4 A B   |   |  |
| 15 |  | CV calcolato<br>Calculated CV                 | CV scelto<br>Selected CV                    |       |   |  |   |   |  |
| 16 |  | Dimens. corpo<br>Body size                    | Dimens. sede<br>Port size                   |       |   |  |   |   |  |
| 17 |  | Conessioni e rating<br>Rating and connections | <b>1/4" NPT-F (NAMUR)</b>                   |       |   |  |   |   |  |
| 18 |  | Materiale corpo<br>Body material              | <b>MFR. STD.</b>                            |       |   |  | EA 5 A B  |   |  |
| 19 |  | Materiale sede<br>Seat material               | <b>MFR. STD.</b>                            |       |   |  |   |   |  |
| 20 |  | Materiale baderna<br>Packing material         | <b>MFR. STD.</b>                            |       |   |  |   |   |  |
| 21 |  | Azionata da pilota<br>Pilot operated          | <b>YES (INTERNAL)</b>                       |       |   |  |   |   |  |
| 22 | Access.<br>Access.   | Riarmo manuale<br>Manual reset                | Operatore manuale<br>Manual operator        | NO    | YES   |  |   |   |  |
| 23 | Attacco elettrico<br>Electrical connection   |   | <b>1/2" GAS-F</b>                           |       |   |  | P INLET<br>A OUTLET<br>B OUTLET<br>E VENT<br>EA VENT<br>EB VENT |   |  |
| 24 | Tipo di contenitore<br>Housing type  |   | <b>IP 65</b>                                |       |   |  |   |   |  |
| 25 | Tropicalizzazione<br>Tropicalization   |   |   |       |   |  |   |   |  |

Note :

## PURCHASING DATA

Manufacturer : **ASCO JOUCOMATIC**  
Model :  
Supplier : **ADLER**  
Order n° : **101605**



BALLESTRA S.p.A.  
MILANO (ITALIA)

## INSTRUMENT SPECIFICATION

CUSTOMER:

PLANT: SABIZ 25000 Kp/h  
JOB: 1E35Z

DWG. : 1E35-80-1148

SH. : 10

REV. : 0

Code :

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### BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION ( FOR VALVE WV -XX )

#### THECNICAL CHARACTERISTICS

Box protection degrrre : IP 67  
Material : ALUMINIUM PRESS. DIE-CASTING  
Colour : BLACK  
Electrical execution : WATERPROOF  
Electrical connection : N° ISO M20

#### 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

ITEM : ZS 6x.xx o/c  
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 (with led)  
Contact Rating : 0,1 A - 24 V d.c.  
Electrical certification :


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

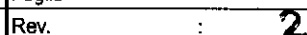
Material : STAINLESS STEEL

Note :

#### PURCHASING DATA

Manufacturer : Automax  
Model : WDC0217201 / BTA  
Supplier : ADLER  
Order n° : 101605

|  |   |                        |   |            |
|--|---|------------------------|---|------------|
|   | <b>INSTRUMENT SPECIFICATION</b>   |                        | Specification N° <b>1E35-80-1148</b>                                      |            |
|  | <b>SPECIFICA STRUMENTI</b>  |                        | Specifica N°  |            |
|  | Customer - <i>Cliente</i>   | :                      | Sheet   | : 11 of 12 |
|  | Plant - <i>Impianto</i>   | :                      | Foglio  | :          |
|  | Job - <i>Commessa</i>   | :                      | Rev.  | :          |
|  |   |                        |   | 2          |
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| 1  |   |                        |   |            |
| 2  | <b>VALVE TAG - <i>Sigla Valvola</i></b>   | :                      | KV 64.15  |            |
| 3  | Valve installation line - <i>Linea installazione valvola</i>                                  | :                      | 1 1/2"-GO-64003-212   |            |
| 4  | Line material - <i>Materiale della linea</i>  | :                      | CARBON STEEL  |            |
| 5  | Service - <i>Servizio</i>   | :                      | FUEL OIL TO 64V10   |            |
| 6  | P&ID Drawing - <i>Numero P&amp;I</i>  | :                      | 1E35-10-11105 Sh.1  |            |
| 7  |   |                        |   |            |
| 8  | <b>BALLESTRA VALVE TYPE - <i>STD Ballestra</i></b>  | :                      | BALL type S127 (ST.46590)   |            |
| 9  | Valve with tight shut-off complete with single acting pneumatic actuator and spring return to |                        |   |            |
| 10   | assure the emergency position in case of air failure.   |                        |   |            |
| 11   | <b>BORE - <i>Passaggio</i></b>  | :                      | <input checked="" type="checkbox"/> Full <input type="checkbox"/> Reduced |            |
| 12   | When air is failing ( emergency ) the valve is  | :                      | <input type="checkbox"/> Open <input checked="" type="checkbox"/> Closed  |            |
| 13   |   |                        |   |            |
| 14   | <b>OPERATING CONDITIONS - <i>Condizioni operative</i></b>                                     |                        |   |            |
| 15   | Process fluid - <i>Fluido di processo</i>   | :                      | FUEL OIL  |            |
| 16   | Fluid type - <i>Tipo fluido</i>   | :                      | LIQUID  |            |
| 17   | Operating pressure - <i>Pressione operativa</i>   | :                      | Nor = 3 Barg - Max 5 Barg   |            |
| 18   | Operating temperature - <i>Temperatura operativa</i>  | :                      | 30-50 °C  |            |
| 19   |   |                        |   |            |
| 20   | <b>VALVE MATERIALS - <i>Materiali valvola</i></b>   |                        |   |            |
| 21   | Body - <i>Corpo</i>   | :                      | CARBON STEEL (ASTM A105)  |            |
| 22   | Stem - <i>Stelo</i>   | :                      | AISI 304  |            |
| 23   | Ball - <i>Sfera</i>   | :                      | AISI 304  |            |
| 24   | Seat - <i>Sede</i>  | :                      | TEFLON  |            |
| 25   |   |                        |   |            |
| 26   | <b>GENERAL - <i>Note generali</i></b>   |                        |   |            |
| 27   | Seat leakage - <i>Classe di tenuta</i>  | :                      | Classe VI - ANSI B16.104  |            |
| 28   | TA-LUFT - Fire safe - Antistatic device   | :                      | Required  |            |
| 29   | Nominal diameter - <i>Diametro nominale</i>   | :                      | 1 1/2"  |            |
| 30   | Connections type and rating - <i>Tipo connessione</i>   | :                      | ANSI B16.5 - 150 RF - (125-250 AARH)                                      |            |
| 31   |   |                        |   |            |
| 32   |   |                        |   |            |
| 33   | <b>ACCESSORIES - <i>Accessori</i></b>   |                        |   |            |
| 34   | <b>-Limit switches and Indicator box - <i>Fine corsa e Box indicatore</i></b>                 |                        |   |            |
| 35   | N° 2 Limit switches to signal the positions open-closed of valve                              |                        |   |            |
| 36   | Limit switches tag  | :                      | ZSH-64.15- ZSL-64.15  |            |
| 37   | Box tag   | :                      | BZS-64.15   |            |
| 38   | Technical characteristics   | :                      | See sh. 10  |            |
| 39   | <b>-Pneumatic operator - <i>Attuatore pneumatico</i></b>                                      |                        |   |            |
| 40   | Pressure of the instrument air supply   | :                      | Min. 4 Barg - Nor.7 Barg - Max. 8 Barg                                    |            |
| 41   | Pneumatic operator dimensioned by Min. pressure   | :                      | 4 Barg  |            |
| 42   | Pneumatic connections   | :                      | 1/4" NPT-F (NAMUR)  |            |
| 43   | Manufacturer  | :                      | Model   | :          |
| 44   | <b>-Solenoid valve - <i>Elettrovalvola</i></b>  |                        |   |            |
| 45   | Solenoid valve tag  | :                      | HY 64.15  |            |
| 46   | For technical characteristics see sheet 12  |                        |   |            |
| 47   | <b>-Hanwheel - <i>Volantino</i></b>   | :                      | <input type="checkbox"/> Yes / Si <input checked="" type="checkbox"/> No  |            |
| 48   |   |                        |   |            |
| 49   |   |                        |   |            |
| <b>Remarks</b><br>1- Valve complete with micro switches box, according to sh.10<br>2- Valve complete with solenoid valve, mounted on pneumatic operator, according to sh.12  |   | <b>PURCHASING DATA</b> |   |            |
|  |   | Manufacturer           | :   | ADLER      |
|  |   | Model                  | :   | FA1        |
|  |   | Supplier               | :   | ADLER      |
|  |   | Order n°               | :   | 102008     |



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|--|---|--------------------|-------------------------|--------------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------------|---------|-----------|--------------------|-----------|--------------------|-----------------|--|--|--|--|---|--|--|--|--|--------------|-----------------|--|--|--|--|--|--|--|--|-------|--------------|--|--|--|--|--|--|--|--|----------|-------|--|--|--|--|--|--|--|--|--------------|--------|--|--|--|
| 1  | Tipo  |                    | 3                       | SINGLE COIL        |                               | <input type="checkbox"/> 2 Vie  | <input checked="" type="checkbox"/> 3 Vie | <input type="checkbox"/> 4 Vie | <input type="checkbox"/> 5 Vie |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 2  | Type  |                    |                         |                    |                               | 2 Way                           | 3 Way                                     | 4 Way                          | 5 Way                          |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 3  | Alimentazione Elettrica                         |                    | 110V - 50 Hz            |                    | Classificazione area          |                                 | WATER PROOF                               |                                | Certificazione                 |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 4  | Power supply                                    |                    |                         |                    | Area classification           |                                 |   |                                | Electrical constr.             |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 5  | Valvola a 2 vie - in mancanza energia elettrica |                    |                         |                    | <input type="checkbox"/> Apre | <input type="checkbox"/> Chiude |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 6  | 2 way valve - on electric failure               |                    |                         |                    | Open                          | Closed                          |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 7  | Valvola a                                       |                    | Solenoid energizzato    |                    | Via                           | P - A                           | P - E                                     | Sfiato                         |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 8  | 3/4/5 vie                                       |                    | Solenoid energized      |                    | Way                           | Open                            | Closed                                    | Vent                           |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 9  | Valve at  |                    | Solenoid disenergizzato |                    | Via                           | Open                            | Closed                                    | Sfiato                         |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 10   | 3/4/5 ways                                      |                    | Solenoid disenergized   |                    | Way                           | Open                            | Closed                                    | Vent                           |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 11   | Sigla   |                    |                         |                    | K Y 64.15                     |                                 | TYPE                                      |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 12   | Tag   |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 13   | Servizio  |                    |                         |                    | Air to pneumatic operator     |                                 | P 2 E                                     |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 14   | Service   |                    |                         |                    | of valve                      |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 15   | Montaggio                                       |                    |                         |                    | On pneumatic operator         |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 16   | Mounting location                               |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 17   | Quantità  |                    |                         |                    | 1                             |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 18   | Quantity  |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 19   | Fluid   |                    |                         |                    | INSTRUMENT AIR                |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 20   | Composti corrosivi                              |                    |                         |                    | NO                            |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 21   | Corrosive agents                                |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 22   | Temperatura                                     |                    | norm. / max             |                    | 30 °C                         |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 23   | Operating temperature                           |                    | norm. / max             |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 24   | Pressione                                       |                    | min. / norm. / max      |                    | 4 Bar 7 Bar 8 Bar             |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 25   | Operating pressure                              |                    | min. / norm. / max      |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 26   | Peso specifico                                  |                    |                         |                    | 29 Molecular Weight           |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 27   | Specific gravity                                |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 28   | Viscosità                                       |                    |                         |                    | 0.01 Cp                       |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 29   | Viscosity                                       |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 30   | Portata   |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 31   | Flow rate                                       |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 32   | Tenuta perfetta                                 |                    |                         |                    | YES                           |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 33   | Tight shut-off                                  |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 34   | CV calcolato                                    |                    | CV scelto               |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 35   | Calculated CV                                   |                    | Selected CV             |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 36   | Dimens. corpo                                   |                    | Dimens. sede            |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 37   | Body size                                       |                    | Port size               |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 38   | Conessioni e rating                             |                    |                         |                    | 1/4" NPT-F (tipo NAMUR)       |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 39   | Rating and connections                          |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 40   | Materiale corpo                                 |                    |                         |                    | INOX                          |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 41   | Body material                                   |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 42   | Materiale sede                                  |                    |                         |                    | INOX                          |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 43   | Seat material                                   |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 44   | Materiale baderna                               |                    |                         |                    | NBR                           |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 45   | Packing material                                |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 46   | Azionata da pilota                              |                    |                         |                    | NO                            |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 47   | Pilot operated                                  |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 48   | Riarmo manuale                                  |                    | Operatore manuale       |                    | NO YES                        |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 49   | Manual reset                                    |                    | Manual operator         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 50   | Tag metal plate                                 |                    |                         |                    | YES                           |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 51   | fixed on body valve                             |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 52   | Tipo di contenitore                             |                    |                         |                    | IP 65                         |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 53   | Housing type                                    |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 54   | Attacco elettrico                               |                    |                         |                    | 1/2" - NPT-F                  |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 55   | Electrical connection                           |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 56   | Absorbed power                                  |                    | Inrush power            |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 57   | Potenza assorbita                               |                    | Potenza allo spunto     |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 58   | certification                                   |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 59   | Certificati                                     |                    |                         |                    |                               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| <table border="1"> <tr> <td>Remarks</td><td>Item SOV.</td><td>Installed on valve</td><td>Item SOV.</td><td>Installed on valve</td><td colspan="5">Purchasing data</td></tr> <tr> <td>1</td><td></td><td></td><td></td><td></td><td>Manufacturer</td><td colspan="4">ASCO JOUCOMATIC</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>Model</td><td colspan="4">SC8551A409MO</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>Supplier</td><td colspan="4">ADLER</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>Order number</td><td colspan="4">102008</td></tr> </table> |   |                    |                         |                    |                               |                                 |   |                                |                                | Remarks | Item SOV. | Installed on valve | Item SOV. | Installed on valve | Purchasing data |  |  |  |  | 1 |  |  |  |  | Manufacturer | ASCO JOUCOMATIC |  |  |  |  |  |  |  |  | Model | SC8551A409MO |  |  |  |  |  |  |  |  | Supplier | ADLER |  |  |  |  |  |  |  |  | Order number | 102008 |  |  |  |
| Remarks  | Item SOV.                                       | Installed on valve | Item SOV.               | Installed on valve | Purchasing data               |                                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
| 1  |   |                    |                         |                    | Manufacturer                  | ASCO JOUCOMATIC                 |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
|  |   |                    |                         |                    | Model                         | SC8551A409MO                    |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
|  |   |                    |                         |                    | Supplier                      | ADLER                           |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |
|  |   |                    |                         |                    | Order number                  | 102008                          |   |                                |                                |         |           |                    |           |                    |                 |  |  |  |  |   |  |  |  |  |              |                 |  |  |  |  |  |  |  |  |       |              |  |  |  |  |  |  |  |  |          |       |  |  |  |  |  |  |  |  |              |        |  |  |  |