

CUSTOMER :

LOCATION:

PLANT : **SULPHUREX**

JOB : **2C57 (1E35)**

DWG. : **(1E35.80.011)**

2C57.80.015

SHEET : **1**

OF : **32**

Code : 2C57.KVSSE.xls

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ON-OFF BALL VALVES SINGLE EFFECT

Valvole on-off a sfera a semplice effetto

REVISION INDEX - INDICE DELLE REVISIONI

SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
REV. 0	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
REV. 1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
REV. 2	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
REV. 3																									
REV. 4																									
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SHEET	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
REV. 0																									
REV. 1	x	x	x	x																					
REV. 2	x	x	x	x	x	x	x																		
REV. 3																									
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2	ISSUE FOR ORDERS 291323 & 291515	EMONTE		EMONTE		G.Ruzzenenti		12/2009
1	ISSUE FOR JOB. 1E35	EMONTE		EMONTE		G.Ruzzenenti		11/2009
0	ISSUE FOR ORDER 241471	S.T.I.		GALIMBERTI		G.Ruzzenenti		09/2004
REV	DESCRIZIONE DESCRIPTION	NOME NAME	FIRMA SIGNAT.	NOME NAME	FIRMA SIGNAT.	NOME NAME	FIRMA SIGNAT.	DATA DATE
REV		REDATTO BY		CONTROLLATO CHECKED		APPROVATO APPROVED		



ON-OFF BALL VALVES S.E.
Valvole on-off a sfera s.e.

DWG. : (1E35.80.011)
2C57.80.015

CUSTOMER :

SH. : 2

LOCATION: JOB: 2C57 (1E35)

REV. : 1

PLANT : SULPHUREX

Code : : 2C57.KVSSE.xls


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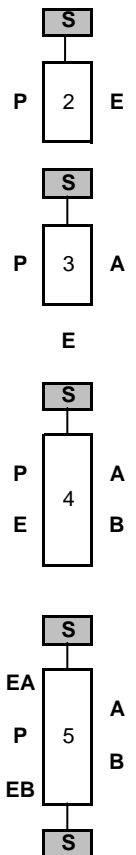
GENERAL NOTES / NOTE GENERALI

1) _ ENVIRONMENTAL CONDITIONS / CONDIZIONI AMBIENTALI

MAX. TEMPERATURE / TEMPERATURA MAX. : 40 °C
MIN. TEMPERATURE / TEMPERATURA MIN. : 0 °C
MAX RELATIVE HUMIDITY / UMIDITA' RELATIVA MASSIMA : 85 %

**2) _ IS REQUIRED TROPICALIZATION FOR ALL INSTRUMENTS.
E' RICHIESTA LA TROPICALIZZAZIONE PER TUTTI GLI STRUMENTI.**

 BALLESTRA S.p.A. MILANO (ITALIA)		INSTRUMENT SPECIFICATION		DWG. (1E35-80-011)	
				2C57-80-015	
		CUSTOMER:		SH. 3	
		PLANT: SULPHUREX		REV. 2	
JOB: 2C57 (1E35)		Computer code: 2C57.KVSSE.xls			
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SERVO - CONTROLLED SHUT-OFF VALVES					
1	Caratteristiche generali - General characteristics				
2	Sigla della valvola - Valve tag : KV 11.5				
3	Linea installazione valvola - <i>Valve installation line</i> : 1 1/2"				
4	Tipo valvola - Valve type : Sfera - Ball				
5	Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a				
6	molla per assicurare la posizione di emergenza in mancanza d'aria.				
7	(Deve essere prevista anche la possibilità di azionamento manuale).				
8	<i>Valve with tight shut-off complete with single acting pneumatic actuator and spring return to</i>				
9	<i>assure the emergency position in case of air failure.</i>				
10	<i>(The possibility of a manual control has to be provided).</i>				
11	In mancanza di aria (emergenza) la valvola è : <input type="checkbox"/> Aperta <input checked="" type="checkbox"/> Chiusa				
12	<i>When air is failing (emergency) the valve is</i> Open Closed				
13	Condizioni di esercizio - Operating conditions				
14	Fluido di processo - <i>Process fluid</i> : Air				
15	Pressione di esercizio - <i>Operating pressure</i> :				
16	Temperatura di esercizio - <i>Operating temperature</i> : 35/160 °C				
17	Materiali - Materials				
18	Corpo - <i>Body</i> : CARBON STEEL				
19	Sfera - <i>Ball</i> : AISI 316				
20	Anello di tenuta - <i>Seal ring</i> : R+PTFE + AM				
21					
22	Dimensioni - Size and rating				
23	Diametro nominale - <i>Nominal diameter</i> : DN 1 1/2"				
24	Attacchi - <i>Connections</i> : ANSI 150 RF				
25	Accessori - Accessoires				
26	N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa				
27	della valvola.				
28	<i>N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of</i>				
29	<i>valve.</i>				
30	Costruttore - <i>Manufacturer</i> : See sheet 5				
31	Modello - <i>Model</i> : See sheet 5				
32	Attuatore - Pneumatic operator				
33	Pressione comando - <i>Control pressure</i> : 4 - 8 Bar				
34	Connessioni pneumatiche : 1/4" NPT - F (NAMUR)				
35	<i>Pneumatic connections</i>				
36	Costruttore - <i>Manufacturer</i> : AUTOMAX				
37	Modello - <i>Model</i> : SN 100- SR10				
38					
39	Tenuta perfetta - Perfect seal : YES				
40					
Note :			PURCHASING DATA		
1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 4			Manufacturer : ALFA VALVOLE		
2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 5			Model : A 10 N + RI		
			Supplier : ALFA VALVOLE		
			Order n° : 291323		

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)		
						2C57-80-015		
		CUSTOMER:				SH. 4		
		PLANT: SULPHUREX				REV. 2		
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls				
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VALVOLA A SOLENOIDE - SOLENOID VALVE								
1	Tipo Type		<input type="checkbox"/> 2 Vie 2 Way		<input checked="" type="checkbox"/> 3 Vie 3 Way		<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply		110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure		<input type="checkbox"/>		Apre Open		<input type="checkbox"/> Chiude Closed	
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways		Solenoide energizzato Solenoid energized		Via Way		P - A Aperta Open	
			Solenoide energizzato Solenoid energized		Via Way		P - E Chiusa Closed	
5	Sigla Tag		KY 11.5					
6	Servizio Service		AIR TO KV 11.5					
7	Dati di processo Process data	Fluido Fluid		INSTRUMENT AIR				
8		Composti corrosivi Corrosive agents		NO				
9		Temperatura Operating temperature		norm. / max norm. / max		30 °C		
10		Pressione Operating pressure		norm. / max norm. / max		7 bar		
11		Peso specifico Specific gravity						
12		Viscosità Viscosity		0,02 Cp				
13		Portata Flow rate						
14		Tenuta perfetta Tight shut-off		YES				
15	Corpo Body	CV calcolato Calculated CV		CV scelto Selected CV				
16		Dimens. corpo Body size		Dimens. sede Port size				
17		Connessioni e rating Rating and connections		1/4" GAS (NAMUR)				
18		Materiale corpo Body material		MFR. STD.				
19		Materiale sede Seat material		MFR. STD.				
20		Materiale baderna Packing material		MFR. STD.				
21		Azionata da pilota Pilot operated		NO				
22		Access. Riarmo manuale Access. Manual reset		Operatore manuale Manual operator		NO YES		
23	Attacco elettrico Electrical connection		1/2" NPT-F					
24	Tipo di contenitore Housing type		IP 65					
25	Tropicalizzazione Tropicalization		YES					
Note :				PURCHASING DATA				
				Manufacturer : ASCO JOUCOMATIC Model : SCG551A001MS Supplier : ALFA VALV. Order n° : 291323				

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **5**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 11.5)

THECNICAL CHARACTERISTICS

Box protection degre : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2 : **ITEM : ZS 11.5 o/c**
: **PROXIMITY SWITCH**
Manufacturer : **PEPPERL + FUCHS**
Model : **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 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 : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291323**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

SH. 6

PLANT: **SULPHUREX**

REV. 2

JOB: **2C57 (1E35)**

Computer code: 2C57.KVSSE.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

Caratteristiche generali - General characteristics

Sigla della valvola - Valve tag : **KV 11.9**

Linea installazione valvola - Valve installation line : **1/2"-AH-AR-11023-206**

Tipo valvola - Valve type : **Sfera - Ball**

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.

(Deve essere prevista anche la possibilità di azionamento manuale).

Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.

(The possibility of a manual control has to be provided).

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 : **Process Air**

Pressione di esercizio - Operating pressure :

Temperatura di esercizio - Operating temperature : **5/160 °C**

Materiali - Materials

Corpo - Body : **CARBON STEEL**

Sfera - Ball : **AISI 316**

Anello di tenuta - Seal ring : **R+PTFE + AM**

Dimensioni - Size and rating

Diametro nominale - Nominal diameter : **DN 1/2"**

Attacchi - Connections : **ANSI 150 RF**

Accessori - Accessoires

N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola.

N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.

Costruttore - Manufacturer : **See sheet 8**

Modello - Model : **See sheet 8**

Attuatore - Pneumatic operator

Pressione comando - Control pressure : **4 - 8 Bar**

Connessioni pneumatiche : **1/4" NPT - F (NAMUR)**

Pneumatic connections

Costruttore - Manufacturer : **AUTOMAX**

Modello - Model : **SN 63-SR 10**

Tenuta perfetta - Perfect seal : **YES**

Note :

1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 7

2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 8


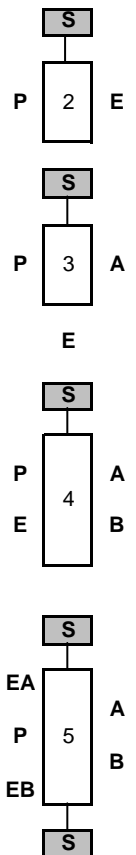
PURCHASING DATA

Manufacturer : **ALFA VALVOLE**

Model : **A 10 N + R10**

Supplier : **ALFA VALVOLE**

Order n° : **291323**

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)	
						2C57-80-015	
		CUSTOMER:				SH. 7	
		PLANT: SULPHUREX				REV. 2	
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls			
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VALVOLA A SOLENOIDE - SOLENOID VALVE							
1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoide energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
5	Sigla Tag			KY 11.9			
6	Servizio Service			AIR TO KV 11.9			
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max norm. / max	7 bar			
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13		Portata Flow rate					
14	Tenuta perfetta Tight shut-off	YES					
15	Corpo Body	CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Conessioni e rating Rating and connections	1/4" GAS (NAMUR)				
18		Materiale corpo Body material	MFR. STD.				
19		Materiale sede Seat material	MFR. STD.				
20		Materiale baderna Packing material	MFR. STD.				
21		Azionata da pilota Pilot operated	NO				
22	Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES		
23		Attacco elettrico Electrical connection	1/2" NPT-F				
24		Tipo di contenitore Housing type	IP 65				
25		Tropicalizzazione Tropicalization	YES				
Note :				PURCHASING DATA			
				Manufacturer : ASCO JOUCOMATIC Model : SCG551A001MS Supplier : ALFA VALV. Order n° : 291323			

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **8**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 11.9)

THECNICAL CHARACTERISTICS

Box protection degrr : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2
ITEM : **ZS 11.9 o/c**
: **PROXIMITY SWITCH**
: **PEPPERL + FUCHS**
: **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 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 : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291323**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

PLANT: **SULPHUREX**

JOB: **2C57 (1E35)**

SH. **9**

REV. **2**

Computer code: 2C57.KVSSE.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

Caratteristiche generali - General characteristics

Sigla della valvola - Valve tag : **KV 12.2**

Linea installazione valvola - Valve installation line : **1/2"-AS-12107-215**

Tipo valvola - Valve type : **Sfera - Ball**

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.

(Deve essere prevista anche la possibilità di azionamento manuale).

Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.

(The possibility of a manual control has to be provided).

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 : **INSTRUMENT AIR (suitable for OLEUM)**

Pressione di esercizio - Operating pressure : **Nor = 6 barg** **Max = 8 barg**

Temperatura di esercizio - Operating temperature : **80 °C**

Materiali - Materials

Corpo - Body : **A351 CF8**

Sfera - Ball : **AISI 304**

Anello di tenuta - Seal ring : **PTFE**

Dimensioni - Size and rating

Diametro nominale - Nominal diameter : **DN 1/2"**

Attacchi - Connections : **ANSI 150 RF**

Accessori - Accessoires

N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola.

N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.

Costruttore - Manufacturer : **See sheet 11**

Modello - Model : **See sheet 11**

Attuatore - Pneumatic operator

Pressione comando - Control pressure : **4 - 8 Bar**

Connessioni pneumatiche : **1/4" NPT - F (NAMUR)**

Pneumatic connections

Costruttore - Manufacturer : **AUTOMAX**

Modello - Model : **SN063 SR07**


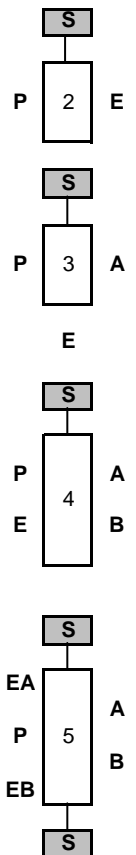
Tenuta perfetta - Perfect seal : **YES**

Note :

- 1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 10
- 2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 11

PURCHASING DATA

Manufacturer : **ALFA VALVOLE**
Model : **ALFA 10NF**
Supplier : **ALFA VALVOLE**
Order n° : **291515**

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)				
						2C57-80-015				
		CUSTOMER:				SH. 10				
		PLANT: SULPHUREX				REV. 2				
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls						
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VALVOLA A SOLENOIDE - SOLENOID VALVE										
1	Tipo Type		<input type="checkbox"/> 2 Vie 2 Way		<input checked="" type="checkbox"/> 3 Vie 3 Way		<input type="checkbox"/> 4 Vie 4 Way		<input type="checkbox"/> 5 Vie 5 Way	
2	Alimentazione Elettrica Power supply 110 V - 50 Hz				Classificazione area Area classification WATER PROOF					
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure				<input type="checkbox"/> Apre Open		<input type="checkbox"/> Chiude Closed			
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways		Solenoide energizzato Solenoid energized		Via Way P - A		Aperta Open P - E		Chiude Closed Sfiato Vent	
5	Sigla Tag		KY 12.2							
6	Servizio Service		AIR TO KV 12.2							
7	Dati di processo Process data	Fluido Fluid		INSTRUMENT AIR						
8		Composti corrosivi Corrosive agents		NO						
9		Temperatura norm. / max Operating temperature		30 °C						
10		Pressione norm. / max Operating pressure		7 bar						
11		Peso specifico Specific gravity								
12		Viscosità Viscosity		0,02 Cp						
13	Corpo Body	Portata Flow rate								
14		Tenuta perfetta Tight shut-off		YES						
15		CV calcolato Calculated CV	CV scelto Selected CV							
16		Dimens. corpo Body size	Dimens. sede Port size							
17		Connessioni e rating Rating and connections		1/4" GAS (NAMUR)						
18		Materiale corpo Body material		MFR. STD.						
19	Materiale sede Seat material		MFR. STD.							
20	Materiale baderna Packing material		MFR. STD.							
21	Azionata da pilota Pilot operated		NO							
22	Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES					
23	Attacco elettrico Electrical connection		1/2" NPT-F							
24	Tipo di contenitore Housing type		IP 65							
25	Tropicalizzazione Tropicalization		YES							
Note :				PURCHASING DATA						
				Manufacturer : ASCO JOUCOMATIC						
				Model : SCG551A001MS						
				Supplier : ALFA VALV.						
				Order n° : 291515						

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:

SH. 11

PLANT: **SULPHUREX**

REV. 2

JOB: **2C57 (1E35)**

Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 12.2)

THECNICAL CHARACTERISTICS

Box protection degre : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2
ITEM : **ZS 12.2 o/c**
: **PROXIMITY SWITCH**
: **PEPPERL + FUCHS**
: **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 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 : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291515**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

SH. 12

PLANT: **SULPHUREX**

REV. 2

JOB: **2C57 (1E35)**

Computer code: 2C57.KVSSE.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

Caratteristiche generali - General characteristics

Sigla della valvola - Valve tag : **KV 12.3**

Linea installazione valvola - Valve installation line : **1"-HS-12024-215**

Tipo valvola - Valve type : **Sfera - Ball**

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.

(Deve essere prevista anche la possibilità di azionamento manuale).

Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.

(The possibility of a manual control has to be provided).

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 : **OLEUM**

Pressione di esercizio - Operating pressure : **Nor = 6 barg** **Max = 8 barg**

Temperatura di esercizio - Operating temperature : **80 °C**

Materiali - Materials

Corpo - Body : **A351 CF8**

Sfera - Ball : **AISI 304**

Anello di tenuta - Seal ring : **PTFE**

Dimensioni - Size and rating

Diametro nominale - Nominal diameter : **DN 1"**

Attacchi - Connections : **ANSI 150 RF**

Accessori - Accessoires

N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola.

N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.

Costruttore - Manufacturer : **See sheet 13**

Modello - Model : **See sheet 13**

Attuatore - Pneumatic operator

Pressione comando - Control pressure : **4 - 8 Bar**

Connessioni pneumatiche : **1/4" NPT - F (NAMUR)**

Pneumatic connections

Costruttore - Manufacturer : **AUTOMAX**

Modello - Model : **SN085 SR07**


Tenuta perfetta - Perfect seal : **YES**

Note :

- 1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 13
- 2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 14

PURCHASING DATA

Manufacturer : **ALFA VALVOLE**
Model : **ALFA 10NF**
Supplier : **ALFA VALVOLE**
Order n° : **291515**

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)	
						2C57-80-015	
		CUSTOMER:				SH. 13	
		PLANT: SULPHUREX				REV. 2	
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls			
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VALVOLA A SOLENOIDE - SOLENOID VALVE							
1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoide energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
5	Sigla Tag			KY 12.3			
6	Servizio Service			AIR TO KV 12.3			
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				<div style="display: flex; flex-direction: column; align-items: center;"> <div>S</div> <div>P 2 E</div> <div>S</div> <div>P 3 A</div> <div>E</div> <div>S</div> <div>P 4 A B</div> <div>E A</div> <div>P 5 A B</div> <div>E B</div> <div>S</div> </div>
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max norm. / max	7 bar			
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13		Portata Flow rate					
14		Tenuta perfetta Tight shut-off	YES				
15	Corpo Body	CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Conessioni e rating Rating and connections		1/4" GAS (NAMUR)			
18		Materiale corpo Body material		MFR. STD.			
19		Materiale sede Seat material		MFR. STD.			
20		Materiale baderna Packing material		MFR. STD.			
21		Azionata da pilota Pilot operated		NO			
22		Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES	
23		Attacco elettrico Electrical connection		1/2" NPT-F			
24		Tipo di contenitore Housing type		IP 65			
25		Tropicalizzazione Tropicalization		YES			
Note :				PURCHASING DATA			
				Manufacturer : ASCO JOUCOMATIC Model : SCG551A001MS Supplier : ALFA VALV. Order n° : 291515			

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **14**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 12.3)

THECNICAL CHARACTERISTICS

Box protection degre : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2 : **ITEM : ZS 12.3 o/c**
: **PROXIMITY SWITCH**
Manufacturer : **PEPPERL + FUCHS**
Model : **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 24 V d.c.**
Electrical certification :


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


Material : **STAINLESS STEEL**

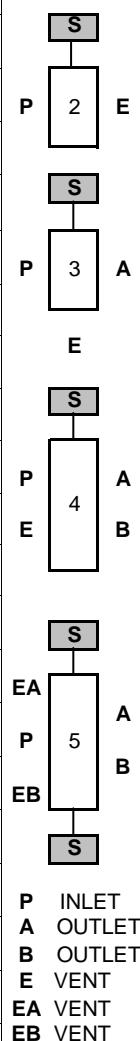
Note :


PURCHASING DATA


Manufacturer : **AUTOMAX**
Model : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291515**

 BALLESTRA S.p.A. MILANO (ITALIA)		INSTRUMENT SPECIFICATION		DWG. (1E35-80-011)	
				2C57-80-015	
		CUSTOMER:		SH. 15	
		PLANT: SULPHUREX		REV. 2	
		JOB: 2C57 (1E35)		Computer code: 2C57.KVSSE.xls	
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SERVO - CONTROLLED SHUT-OFF VALVES					
1	Caratteristiche generali - General characteristics				
2	Sigla della valvola - Valve tag : KV 12.4				
3	Linea installazione valvola - <i>Valve installation line</i> : 2"-HS-12020-215				
4	Tipo valvola - Valve type : Sfera - Ball				
5	Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a				
6	molla per assicurare la posizione di emergenza in mancanza d'aria.				
7	(Deve essere prevista anche la possibilità di azionamento manuale).				
8	<i>Valve with tight shut-off complete with single acting pneumatic actuator and spring return to</i>				
9	<i>assure the emergency position in case of air failure.</i>				
10	<i>(The possibility of a manual control has to be provided).</i>				
11	In mancanza di aria (emergenza) la valvola è : <input type="checkbox"/> Aperta <input checked="" type="checkbox"/> Chiusa				
12	<i>When air is failing (emergency) the valve is</i> Open Closed				
13	Condizioni di esercizio - Operating conditions				
14	Fluido di processo - <i>Process fluid</i> : OLEUM				
15	Pressione di esercizio - <i>Operating pressure</i> : Nor = 6 barg Max = 8 barg				
16	Temperatura di esercizio - <i>Operating temperature</i> : 80 °C				
17	Materiali - Materials S 123				
18	Corpo - <i>Body</i> : A351 CF8				
19	Sfera - <i>Ball</i> : AISI 304				
20	Anello di tenuta - <i>Seal ring</i> : PTFE				
21					
22	Dimensioni - Size and rating				
23	Diametro nominale - <i>Nominal diameter</i> : DN 2"				
24	Attacchi - <i>Connections</i> : ANSI 150 RF				
25	Accessori - Accessoires				
26	N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa				
27	della valvola.				
28	<i>N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of</i>				
29	<i>valve.</i>				
30	Costruttore - <i>Manufacturer</i> : See sheet 17				
31	Modello - <i>Model</i> : See sheet 17				
32	Attuatore - Pneumatic operator				
33	Pressione comando - <i>Control pressure</i> : 4 - 8 Bar				
34	Connessioni pneumatiche : 1/4" NPT - F (NAMUR)				
35	<i>Pneumatic connections</i>				
36	Costruttore - <i>Manufacturer</i> : AUTOMAX				
37	Modello - <i>Model</i> : SN115 SR07				
38					
39	Tenuta perfetta - Perfect seal : YES				
40					
Note :			PURCHASING DATA		
1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 16			Manufacturer : ALFA VALVOLE		
2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 17			Model : ALFA 10NF		
			Supplier : ALFA VALVOLE		
			Order n° : 291515		

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)			
						2C57-80-015			
		CUSTOMER:				SH. 16			
		PLANT: SULPHUREX				REV. 2			
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls					
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VALVOLA A SOLENOIDE - SOLENOID VALVE									
1	Tipo Type		<input type="checkbox"/> 2 Vie 2 Way		<input checked="" type="checkbox"/> 3 Vie 3 Way		<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way	
2	Alimentazione Elettrica Power supply		110 V - 50 Hz		Classificazione area Area classification		WATER PROOF		
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure		<input type="checkbox"/>		Apre Open		<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoide energizzato Solenoid energized	Via Way	P - A	Apre Open	P - E	Chiude Closed	Sfiato Vent	
5	Sigla Tag		KY 12.4						
6	Servizio Service		AIR TO KV 12.4						
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR						
8		Composti corrosivi Corrosive agents	NO						
9		Temperatura Operating temperature	norm. / max norm. / max	30 °C					
10		Pressione Operating pressure	norm. / max norm. / max	7 bar					
11		Peso specifico Specific gravity							
12		Viscosità Viscosity	0,02 Cp						
13	Corpo Body	Portata Flow rate							
14		Tenuta perfetta Tight shut-off	YES						
15		CV calcolato Calculated CV	CV scelto Selected CV						
16		Dimens. corpo Body size	Dimens. sede Port size						
17		Connessioni e rating Rating and connections	1/4" GAS (NAMUR)						
18		Materiale corpo Body material	MFR. STD.						
19	Access.	Materiale sede Seat material	MFR. STD.						
20		Materiale baderna Packing material	MFR. STD.						
21		Azionata da pilota Pilot operated	NO						
22		Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES				
23		Attacco elettrico Electrical connection	1/2" NPT-F						
24		Tipo di contenitore Housing type	IP 65						
25	Tropicalizzazione Tropicalization		YES						
Note :			PURCHASING DATA						
			Manufacturer : ASCO JOUCOMATIC Model : SCG551A001MS Supplier : ALFA VALV. Order n° : 291515						



 BALLESTRA S.p.A. MILANO (ITALIA)	INSTRUMENT SPECIFICATION		DWG. (1E35-80-011)
			2C57-80-015
	CUSTOMER:		SH. 17
	PLANT: SULPHUREX		REV. 2
JOB: 2C57 (1E35)		Computer code: 2C57.KVSSE.xls	
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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 12.4)			
1	<div> <div>THECNICAL CHARACTERISTICS</div> <div> <div>Box protection degrre : IP 67</div> <div>Material : ALUMINIUM PRESS. DIE-CASTING</div> <div>Colour : BLACK</div> <div>Electrical execution : WATERPROOF</div> <div>Electrical connection : N°3 - 3/4" NPT-F</div> </div> <div>COMPLETE WITH THE FOLLOWING COMPONENTS</div> <div> <div>1. POSITION INDICATOR</div> <div>Two colours : RED - CLOSED / GREEN - OPEN</div> <div>Material : POLICARBONATE</div> <div>Mechanically integral with the shaft of the valve</div> </div> <div> <div>2. ACTUATING CAMS</div> <div>With rotation angles from 0 to 90°</div> </div> <div> <div>3. TERMINAL BOARD</div> <div>Prewired with N°9 terminals of 2,5 mm2</div> <div>Colour : STANDARD</div> </div> <div> <div>4. MICROSWITCHES</div> <div>ITEM : ZS 12.4 o/c</div> <div>Will have to be installed in the box and connected to the terminal board N°2 : PROXIMITY SWITCH</div> <div>Manufacturer : PEPPERL + FUCHS</div> <div>Model : NCN4 - 12GM - 40Z0 (with led)</div> <div>Contact Rating : 0,1A - 24 V d.c.</div> <div>Electrical certification :</div> </div> <div> <div>5. FIXING BRACKET OF THE BOX COMPLETE OF THE BOLTS FOR FIXING NAMUR MECHANICAL CONNECTION</div> <div>Material : STAINLESS STEEL</div> </div> </div>		
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Note :		PURCHASING DATA Manufacturer : AUTOMAX Model : WDC0217201QQ/BT Supplier : ALFA VALV. Order n° : 291515	

 BALLESTRA S.p.A. MILANO (ITALIA)		INSTRUMENT SPECIFICATION		DWG. (1E35-80-011)	
				2C57-80-015	
		CUSTOMER:		SH. 18	
		PLANT: SULPHUREX		REV. 2	
JOB: 2C57 (1E35)		Computer code: 2C57.KVSSE.xls			
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SERVO - CONTROLLED SHUT-OFF VALVES					
1	Caratteristiche generali - General characteristics				
2	Sigla della valvola - Valve tag : KV 12.5				
3	Linea installazione valvola - <i>Valve installation line</i> : 2"-HS-12030-215				
4	Tipo valvola - Valve type : Sfera - Ball				
5	Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a				
6	molla per assicurare la posizione di emergenza in mancanza d'aria.				
7	(Deve essere prevista anche la possibilità di azionamento manuale).				
8	<i>Valve with tight shut-off complete with single acting pneumatic actuator and spring return to</i>				
9	<i>assure the emergency position in case of air failure.</i>				
10	(<i>The possibility of a manual control has to be provided</i>).				
11	In mancanza di aria (emergenza) la valvola è : <input type="checkbox"/> Aperta <input checked="" type="checkbox"/> Chiusa				
12	<i>When air is failing (emergency) the valve is</i> Open Closed				
13	Condizioni di esercizio - Operating conditions				
14	Fluido di processo - <i>Process fluid</i> : OLEUM				
15	Pressione di esercizio - <i>Operating pressure</i> : Nor = 6 barg Max = 8 barg				
16	Temperatura di esercizio - <i>Operating temperature</i> : 80 °C				
17	Materiali - Materials S 123				
18	Corpo - <i>Body</i> : A351 CF8				
19	Sfera - <i>Ball</i> : AISI 304				
20	Anello di tenuta - <i>Seal ring</i> : PTFE				
21					
22	Dimensioni - Size and rating				
23	Diametro nominale - <i>Nominal diameter</i> : DN 2"				
24	Attacchi - <i>Connections</i> : ANSI 150 RF				
25	Accessori - Accessoires				
26	N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa				
27	della valvola.				
28	<i>N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of</i>				
29	<i>valve.</i>				
30	Costruttore - <i>Manufacturer</i> : See sheet 20				
31	Modello - <i>Model</i> : See sheet 20				
32	Attuatore - Pneumatic operator				
33	Pressione comando - <i>Control pressure</i> : 4 - 8 Bar				
34	Connessioni pneumatiche : 1/4" NPT - F (NAMUR)				
35	<i>Pneumatic connections</i>				
36	Costruttore - <i>Manufacturer</i> : AUTOMAX				
37	Modello - <i>Model</i> : SN115 SR07				
38					
39	Tenuta perfetta - Perfect seal : YES				
40					
Note :			PURCHASING DATA		
1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 19			Manufacturer : ALFA VALVOLE		
2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 20			Model : ALFA 10NF		
			Supplier : ALFA VALVOLE		
			Order n° : 291515		

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

SH. 19

PLANT: **SULPHUREX**

REV. 2

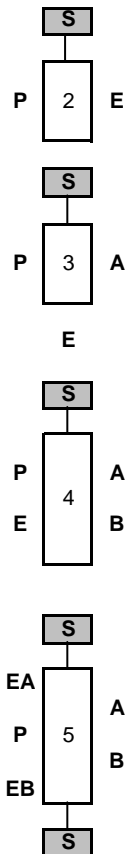
JOB: **2C57 (1E35)**

Computer code: 2C57.KVSSE.xls

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VALVOLA A SOLENOIDE - SOLENOID VALVE

1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoid energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
		Solenoid energizzato Solenoid energized	Via Way	Aperta Open	Chiusa Closed	Sfiato Vent	
5	Sigla Tag			KY 12.5			
6	Servizio Service			AIR TO KV 12.5			
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max		7 bar		
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13		Portata Flow rate					
14	Tenuta perfetta Tight shut-off	YES					
15	Corpo Body	CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Conessioni e rating Rating and connections	1/4" GAS (NAMUR)				
18		Materiale corpo Body material	MFR. STD.				
19		Materiale sede Seat material	MFR. STD.				
20		Materiale baderna Packing material	MFR. STD.				
21		Azionata da pilota Pilot operated	NO				
22	Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES		
23		Attacco elettrico Electrical connection	1/2" NPT-F				
24		Tipo di contenitore Housing type	IP 65				
25		Tropicalizzazione Tropicalization	YES				

Note :

PURCHASING DATA

Manufacturer : **ASCO JOUCOMATIC**
Model : **SCG551A001MS**
Supplier : **ALFA VALV.**
Order n° : **291515**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **20**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 12.5)

THECNICAL CHARACTERISTICS

Box protection degre : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2 : **ITEM : ZS 12.5 o/c**
: **PROXIMITY SWITCH**
Manufacturer : **PEPPERL + FUCHS**
Model : **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 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 : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291515**

		INSTRUMENT SPECIFICATION		DWG. (1E35-80-011)
				2C57-80-015
		CUSTOMER:		SH. 21
		PLANT: SULPHUREX		REV. 2
		JOB: 2C57 (1E35)		Computer code: 2C57.KVSSE.xls
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SERVO - CONTROLLED SHUT-OFF VALVES				
1	Caratteristiche generali - General characteristics			
2	Sigla della valvola - Valve tag : KV 16.20			
3	Linea installazione valvola - <i>Valve installation line</i> : 3"-AA-16012-206			
4	Tipo valvola - Valve type : Sfera - Ball			
5	Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a			
6	molla per assicurare la posizione di emergenza in mancanza d'aria.			
7	(Deve essere prevista anche la possibilità di azionamento manuale).			
8	<i>Valve with tight shut-off complete with single acting pneumatic actuator and spring return to</i>			
9	<i>assure the emergency position in case of air failure.</i>			
10	<i>(The possibility of a manual control has to be provided).</i>			
11	In mancanza di aria (emergenza) la valvola è : <input type="checkbox"/> Aperta <input checked="" type="checkbox"/> Chiusa			
12	<i>When air is failing (emergency) the valve is</i> Open Closed			
13	Condizioni di esercizio - Operating conditions			
14	Fluido di processo - <i>Process fluid</i> : AIR			
15	Pressione di esercizio - <i>Operating pressure</i> : Nor = 0,45 barg Max = 0,9 barg			
16	Temperatura di esercizio - <i>Operating temperature</i> : 25 °C			
17	Materiali - Materials S 127			
18	Corpo - <i>Body</i> : A105			
19	Sfera - <i>Ball</i> : AISI 304			
20	Anello di tenuta - <i>Seal ring</i> : PTFE			
21				
22	Dimensioni - Size and rating			
23	Diametro nominale - <i>Nominal diameter</i> : DN 3"			
24	Attacchi - <i>Connections</i> : ANSI 150 RF			
25	Accessori - Accessoires			
26	N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa			
27	della valvola.			
28	<i>N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of</i>			
29	<i>valve.</i>			
30	Costruttore - <i>Manufacturer</i> : See sheet 23			
31	Modello - <i>Model</i> : See sheet 23			
32	Attuatore - Pneumatic operator			
33	Pressione comando - <i>Control pressure</i> : 4 - 8 Bar			
34	Connessioni pneumatiche : 1/4" NPT - F (NAMUR)			
35	<i>Pneumatic connections</i>			
36	Costruttore - <i>Manufacturer</i> : AUTOMAX			
37	Modello - <i>Model</i> : SN150 SR07			
38				
39	Tenuta perfetta - Perfect seal : YES			
40				
Note : 1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 22 2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 23		PURCHASING DATA		
		Manufacturer : ALFA VALVOLE Model : ALFA 10N Supplier : ALFA VALVOLE Order n° : 291515		

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

SH. 22

PLANT: **SULPHUREX**

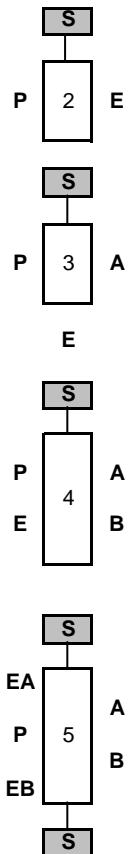
REV. 2

JOB: **2C57 (1E35)**

Computer code: 2C57.KVSSE.xls

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VALVOLA A SOLENOIDE - SOLENOID VALVE

1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoid energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
		Solenoid energizzato Solenoid energized	Via Way	Aperta Open	Chiusa Closed	Sfiato Vent	
5	Sigla Tag			KY 16.20			
6	Servizio Service			AIR TO KV 16.20			
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max		7 bar		
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13	Corpo Body	Portata Flow rate					
14		Tenuta perfetta Tight shut-off	YES				
15		CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Conessioni e rating Rating and connections	1/4" GAS (NAMUR)				
18		Materiale corpo Body material	MFR. STD.				
19	Materiale sede Seat material	MFR. STD.					
20	Materiale baderna Packing material	MFR. STD.					
21	Azionata da pilota Pilot operated	NO					
22	Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES		
23		Attacco elettrico Electrical connection	1/2" NPT-F				
24		Tipo di contenitore Housing type	IP 65				
25		Tropicalizzazione Tropicalization	YES				

Note :

PURCHASING DATA

Manufacturer : **ASCO JOUCOMATIC**
Model : **SCG551A001MS**
Supplier : **ALFA VALV.**
Order n° : **291515**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **23**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 16.20)

THECNICAL CHARACTERISTICS

Box protection degre : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2 : **ITEM : ZS 16.20 o/c**
: **PROXIMITY SWITCH**
Manufacturer : **PEPPERL + FUCHS**
Model : **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 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 : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291515**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

PLANT: **SULPHUREX**

JOB: **2C57 (1E35)**

SH. **24**

REV. **2**

Computer code: 2C57.KVSSE.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

Caratteristiche generali - General characteristics

Sigla della valvola - Valve tag : **KV 33.1**

Linea installazione valvola - Valve installation line : **1/2"-WP-33132-215**

Tipo valvola - Valve type : **Sfera - Ball**

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.

(Deve essere prevista anche la possibilità di azionamento manuale).

Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.

(The possibility of a manual control has to be provided).

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 : **WATER**

Pressione di esercizio - Operating pressure : **Nor = 3 barg** **Max = 5 barg**

Temperatura di esercizio - Operating temperature : **30 °C**

Materiali - Materials

Corpo - Body : **A351 CF8**

Sfera - Ball : **AISI 304**

Anello di tenuta - Seal ring : **TEFLON**

Dimensioni - Size and rating

Diametro nominale - Nominal diameter : **DN 1/2"**

Attacchi - Connections : **ANSI 150 RF**

Accessori - Accessoires

N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola.

N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.

Costruttore - Manufacturer : **See sheet 26**

Modello - Model : **See sheet 26**

Attuatore - Pneumatic operator

Pressione comando - Control pressure : **4 - 8 Bar**

Connessioni pneumatiche : **1/4" NPT - F (NAMUR)**

Pneumatic connections

Costruttore - Manufacturer : **AUTOMAX**

Modello - Model : **SN063 SR07**

Tenuta perfetta - Perfect seal : **YES**

Note :

1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 25

2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 26


PURCHASING DATA

Manufacturer : **ALFA VALVOLE**

Model : **ALFA 10NF**

Supplier : **ALFA VALVOLE**

Order n° : **291515**

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)	
						2C57-80-015	
		CUSTOMER:				SH. 25	
		PLANT: SULPHUREX				REV. 2	
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls			
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VALVOLA A SOLENOIDE - SOLENOID VALVE							
1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoide energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
5	Sigla Tag			KY 33.1			
6	Servizio Service			AIR TO KV 33.1			
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				<div style="display: flex; flex-direction: column; align-items: center;"> <div>S</div> <div>P 2 E</div> <div>S</div> <div>P 3 A</div> <div>E</div> <div>S</div> <div>P 4 A B</div> <div>E A</div> <div>P 5 A B</div> <div>E B</div> <div>S</div> </div>
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max norm. / max	7 bar			
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13		Portata Flow rate					
14		Tenuta perfetta Tight shut-off	YES				
15	Corpo Body	CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Conessioni e rating Rating and connections		1/4" GAS (NAMUR)			
18		Materiale corpo Body material		MFR. STD.			
19		Materiale sede Seat material		MFR. STD.			
20		Materiale baderna Packing material		MFR. STD.			
21		Azionata da pilota Pilot operated		NO			
22		Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES	
23		Attacco elettrico Electrical connection		1/2" NPT-F			
24		Tipo di contenitore Housing type		IP 65			
25		Tropicalizzazione Tropicalization		YES			
Note :				PURCHASING DATA			
				Manufacturer : ASCO JOUCOMATIC Model : SCG551A001MS Supplier : ALFA VALV. Order n° : 291515			

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **26**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 33.1)

THECNICAL CHARACTERISTICS

Box protection degrr : **IP 67**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" NPT-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2 : **ITEM : ZSHL 33.1 o/c**
: **PROXIMITY SWITCH**
Manufacturer : **PEPPERL + FUCHS**
Model : **NCN4 - 12GM - 40Z0 (with led)**
Contact Rating : **0,1A - 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 : **WDC0217201QQ/BT**
Supplier : **ALFA VALV.**
Order n° : **291515**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

PLANT: **SULPHUREX**

JOB: **2C57 (1E35)**

SH. **27**

REV. **2**

Computer code: 2C57.KVSSE.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

Caratteristiche generali - General characteristics

Sigla della valvola - Valve tag : **LV 25.1**

Linea installazione valvola - Valve installation line : **1 1/2"-ZF-25002-211**

Tipo valvola - Valve type : **Sfera - Ball**

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.

(Deve essere prevista anche la possibilità di azionamento manuale).

Valve with tight shut-off complete with single acting pneumatic actuator and spring return to assure the emergency position in case of air failure.

(The possibility of a manual control has to be provided).

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 : **SULPHUR**

Pressione di esercizio - Operating pressure :

Temperatura di esercizio - Operating temperature : **151 °C**

Materiali - Materials

Corpo - Body : **ASTM A105**

Sfera - Ball : **AISI 304**

Anello di tenuta - Seal ring : **R-PTFE**

Dimensioni - Size and rating

Diametro nominale - Nominal diameter : **DN 1 1/2"**

Attacchi - Connections : **ANSI 150 RF**

Accessori - Accessoires

N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa della valvola.

N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of valve.

Costruttore - Manufacturer : **See sheet 29**

Modello - Model : **See sheet 29**

Attuatore - Pneumatic operator

Pressione comando - Control pressure : **4 - 8 Bar**

Connessioni pneumatiche : **1/4" NPT - F (NAMUR)**

Pneumatic connections

Costruttore - Manufacturer : **AUTOMAX**

Modello - Model : **GT 92 K4**

Tenuta perfetta - Perfect seal : **YES**

Note :

1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 28

2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 29

PURCHASING DATA

Manufacturer : **ALFA VALVOLE**

Model : **A11N**

Supplier : **ALFA VALVOLE**

Order n° : **291323**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

2C57-80-015

CUSTOMER:

SH. 28

PLANT: **SULPHUREX**

REV. 2

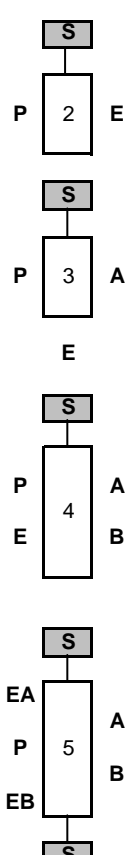
JOB: **2C57 (1E35)**

Computer code: 2C57.KVSSE.xls

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VALVOLA A SOLENOIDE - SOLENOID VALVE

1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification WATER PROOF			
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoid energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
		Solenoid energizzato Solenoid energized	Via Way	Aperta Open	Chiusa Closed	Sfiato Vent	
5	Sigla Tag	LY 25.1					
6	Servizio Service	AIR TO LV 25.1					
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max norm. / max		7 bar		
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13		Portata Flow rate					
14	Tenuta perfetta Tight shut-off	YES					
15	Corpo Body	CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Connessioni e rating Rating and connections	1/4" NPT-F (NAMUR)				
18		Materiale corpo Body material	MFR. STD.				
19		Materiale sede Seat material	MFR. STD.				
20		Materiale baderna Packing material	MFR. STD.				
21		Azionata da pilota Pilot operated	NO				
22	Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES		
23		Attacco elettrico Electrical connection	1/2" GAS-F				
24		Tipo di contenitore Housing type	IP 65				
25		Tropicalizzazione Tropicalization	YES				



P INLET
A OUTLET
B OUTLET
E VENT
EA VENT
EB VENT

Note :

PURCHASING DATA

Manufacturer : **L.G.M. ENGINEERING**

Model : **R2518**

Supplier : **ALFA VALVOLE**

Order n° : **291323**

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **29**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE LV 25.1)

0.00

THECNICAL CHARACTERISTICS

Box protection degre : **IP 66**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" GAS-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box and connected to the terminal board N°2 : **ITEM : ZSHL 25.4 o/c**
: **MECHANICAL SWITCHES**
Manufacturer : **SIEMENS**
Model : **3SE02801C**
Contact Rating : **0,1A - 24 V d.c.**
Electrical certification :


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


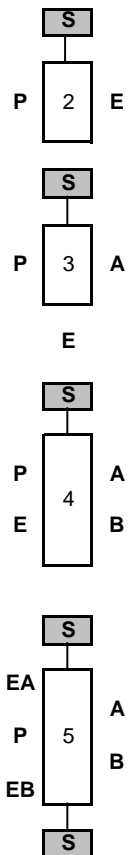
Material : **STAINLESS STEEL**

Note :

PURCHASING DATA

Manufacturer : **SIMENS**
Model : **3SE02801C**
Supplier : **ALFA VALVOLE**
Order n° : **291323**

 BALLESTRA S.p.A. MILANO (ITALIA)	INSTRUMENT SPECIFICATION		DWG. (1E35-80-011)
			2C57-80-015
	CUSTOMER:		SH. 30
	PLANT: SULPHUREX		REV. 2
JOB: 2C57 (1E35)		Computer code: 2C57.KVSSE.xls	
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SERVO - CONTROLLED SHUT-OFF VALVES			
1	Caratteristiche generali - General characteristics		
2	Sigla della valvola - Valve tag	:	KV 16.17
3	Linea installazione valvola - <i>Valve installation line</i>	:	1/2"-AS-16123-215
4	Tipo valvola - Valve type	:	Sfera - Ball
5	Valvola a tenuta perfetta completa di attuatore pneumatico a semplice effetto con ritorno a		
6	molla per assicurare la posizione di emergenza in mancanza d'aria.		
7	(Deve essere prevista anche la possibilità di azionamento manuale).		
8	<i>Valve with tight shut-off complete with single acting pneumatic actuator and spring return to</i>		
9	<i>assure the emergency position in case of air failure.</i>		
10	<i>(The possibility of a manual control has to be provided).</i>		
11	In mancanza di aria (emergenza) la valvola è	:	<input checked="" type="checkbox"/> Aperta <input type="checkbox"/> Chiusa
12	<i>When air is failing (emergency) the valve is</i>		<i>Open Closed</i>
13	Condizioni di esercizio - Operating conditions		
14	Fluido di processo - <i>Process fluid</i>	:	AIR
15	Pressione di esercizio - <i>Operating pressure</i>	:	
16	Temperatura di esercizio - <i>Operating temperature</i>	:	35 °C
17	Materiali - Materials		S 121
18	Corpo - <i>Body</i>	:	AISI 304
19	Sfera - <i>Ball</i>	:	AISI 304
20	Anello di tenuta - <i>Seal ring</i>	:	R-PTFE
21			
22	Dimensioni - Size and rating		
23	Diametro nominale - <i>Nominal diameter</i>	:	DN 1/2"
24	Attacchi - <i>Connections</i>	:	ANSI 150 RF
25	Accessori - Accessoires		
26	N°2 Finecorsa montati sull'operatore pneumatico per segnalare le posizioni aperta e chiusa		
27	della valvola.		
28	<i>N°2 Limit switches mounted on pneumatic operator to signal the positions open-closed of</i>		
29	<i>valve.</i>		
30	Costruttore - <i>Manufacturer</i>	:	See sheet 32
31	Modello - <i>Model</i>	:	See sheet 32
32	Attuatore - Pneumatic operator		
33	Pressione comando - <i>Control pressure</i>	:	4 - 8 Bar
34	Connessioni pneumatiche	:	1/4" NPT - F (NAMUR)
35	<i>Pneumatic connections</i>		
36	Costruttore - <i>Manufacturer</i>	:	AUTOMAX
37	Modello - <i>Model</i>	:	GT 52 K4
38			
39	Tenuta perfetta - Perfect seal	:	YES
40			
Note :		PURCHASING DATA	
1) Valve complete of solenoid valve, mounted on pneumatic operator , for technical date see sheet 28		Manufacturer : ALFA VALVOLE	
2) Valve complete with junction box , mounted on pneumatic operator , for technical date see sheet 29		Model : A10N	
		Supplier : ALFA VALVOLE	
		Order n° : 291323	

		INSTRUMENT SPECIFICATION				DWG. (1E35-80-011)	
						2C57-80-015	
		CUSTOMER:				SH. 31	
		PLANT: SULPHUREX				REV. 2	
JOB: 2C57 (1E35)				Computer code: 2C57.KVSSE.xls			
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VALVOLA A SOLENOIDE - SOLENOID VALVE							
1	Tipo Type	SINGLE SOLENOID		<input type="checkbox"/> 2 Vie 2 Way	<input checked="" type="checkbox"/> 3 Vie 3 Way	<input type="checkbox"/> 4 Vie 4 Way	<input type="checkbox"/> 5 Vie 5 Way
2	Alimentazione Elettrica Power supply	110 V - 50 Hz		Classificazione area Area classification		WATER PROOF	
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure			<input type="checkbox"/> Apre Open	<input type="checkbox"/> Chiude Closed		
4	Valvola a 3/4/5 vie Valve at 3/4/5 ways	Solenoid energizzato Solenoid energized	Via Way	P - A Aperta Open	P - E Chiusa Closed	Sfiato Vent	
		Solenoid energizzato Solenoid energized	Via Way	Aperta Open	Chiusa Closed	Sfiato Vent	
5	Sigla Tag			KY 16.17			
6	Servizio Service			AIR TO KV 16.17			
7	Dati di processo Process data	Fluido Fluid	INSTRUMENT AIR				
8		Composti corrosivi Corrosive agents	NO				
9		Temperatura Operating temperature	norm. / max norm. / max	30 °C			
10		Pressione Operating pressure	norm. / max norm. / max	7 bar			
11		Peso specifico Specific gravity					
12		Viscosità Viscosity	0,02 Cp				
13		Portata Flow rate					
14	Corpo Body	Tenuta perfetta Tight shut-off	YES				
15		CV calcolato Calculated CV	CV scelto Selected CV				
16		Dimens. corpo Body size	Dimens. sede Port size				
17		Connessioni e rating Rating and connections		1/4" NPT-F (NAMUR)			
18		Materiale corpo Body material		MFR. STD.			
19		Materiale sede Seat material		MFR. STD.			
20		Materiale baderna Packing material		MFR. STD.			
21	Azionata da pilota Pilot operated		NO				
22	Access. Access.	Riarmo manuale Manual reset	Operatore manuale Manual operator	NO	YES		
23		Attacco elettrico Electrical connection		1/2" GAS-F			
24		Tipo di contenitore Housing type		IP 65			
25		Tropicalizzazione Tropicalization		YES			
Note :				PURCHASING DATA			
				Manufacturer : LG.M. ENGINEERING Model : R2518 Supplier : ALFA VALVOLE Order n° : 291323			

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)
2C57-80-015

CUSTOMER:
PLANT: **SULPHUREX**
JOB: **2C57 (1E35)**

SH. **32**
REV. **2**
Computer code: 2C57.KVSSE.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION (FOR VALVE KV 16.17)

0.00

THECNICAL CHARACTERISTICS

Box protection degre : **IP 66**
Material : **ALUMINIUM PRESS. DIE-CASTING**
Colour : **BLACK**
Electrical execution : **WATERPROOF**
Electrical connection : **N°3 - 3/4" GAS-F**

COMPLETE WITH THE FOLLOWING COMPONENTS

1. POSITION INDICATOR

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

2. ACTUATING CAMS

With rotation angles from 0 to 90°

3. TERMINAL BOARD

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

4. MICROSWITCHES

Will have to be installed in the box
and connected to the
terminal board N°2 : **MECHANICAL SWITCHES**
Manufacturer : **SIEMENS**
Model : **3SE02801C**
Contact Rating : **0,1A - 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 : **SIMENS**
Model : **3SE02801C**
Supplier : **ALFA VALVOLE**
Order n° : **291323**