

	DWG.	:	(1E35.80.011)
CUSTOMER:			2C57.80.015
LOCATION:	SHEET	:	1
PLANT: SULPHUREX	OF	:	32
JOB: 2C57 (1E35)	Code	:	2C57.KVSSE.xls

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ON-OFF BALL VALVES SINGLE EFFECT Valvole on-off a sfera a semplice effetto

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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
		NOME	FIRMA	NOME	FIRMA	NOME	FIRMA	
REV	DESCRIZIONE	NAME	SIGNAT.	NAME	SIGNAT.	NAME	SIGNAT.	DATA
REV	DESCRIPTION	REDAT	то	CONTROL	LATO	APPROVA	4 <i>T</i> O	DATE
		BY		CHECK	ED	APPROV	'ED	



ON-OFF BALL VALVES S.E. DWG. : (1E35.80.011) Valvole on-off a sfera s.e. 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 $^{\circ}$ C MIN. TEMPERATURE / TEMPERATURA MIN. : 0 $^{\circ}$ C MAX RELATIVE HUMIDITY / UMIDITA' RELATIVA MASSIMA : 85 $^{\circ}$

2) _ IS REQUIRED TROPICALIZATION FOR ALL INSTRUMENTS.

E' RICHIESTA LA TROPICALIZZAZIONE PER TUTTI GLI STRUMENTI.



	SERVO - CONTROLLED S	SHUT-	OFF VALVES	
1	Caratteristiche generali - General characteristi	ics		=
2	Sigla della valvola - <i>Valve tag</i>	:	KV 11.5	
3	Linea installazione valvola - Valve installation line	:	1 1/2"	
4	Tipo valvola - Valve type	:	Sfera - Ball	
5	Valvola a tenuta perfetta completa di attuatore pre	eumati	co a semplice effetto con ritorno a	
6	molla per assicurare la posizione di emergenza in	manca	anza d'aria.	
7	(Deve essere prevista anche la possibilità di azio	namen	to manuale).	
8	Valve with tight shut-off complete with single actin	ig pneu	ımatic actuator and spring return to	
9	assure the emergency position in case of air failur	re.		
10	(The possibility of a manual control has to be pro	vided)		
11	In mancanza di aria (emergenza) la valvola è	:	Aperta Chiusa	
12	When air is failing (emergency) the valve is		Open Closed	
13	Condizioni di esercizio - Operating conditions		·	
14	Fluido di processo - Process fluid	:	Air	
15	Pressione di esercizio - Operating pressure	:		
16	Temperatura di esercizio - Operating temperature	:	35/160 °C	
17	Materiali - <i>Materials</i>			
18	Corpo - <i>Body</i>	:	CARBON STEEL	
19	Sfera - Ball	:	AISI 316	
20	Anello di tenuta - Seal ring	:	R+PTFE + AM	
21	· ·			
22	Dimensioni - Size and rating			
23	Diametro nominale - Nominal diameter	:	DN 1 1/2"	
24	Attacchi - Connections	:	ANSI 150 RF	
25	Accessori - Accessoires			
26	N°2 Finecorsa montati sull'operatore pneumatico	pe r se	gnalare le posizioni aperta e chiusa	
27	della valvola.			
28	N°2 Limit switches mounted on pneumatic operat	or t o s	ignal the positions open-closed of	
29	valve.			
30	Costruttore - Manufacturer	:	See sheet 5	
31	Modello - <i>Model</i>	:	See sheet 5	
32	Attuatore - Pneumatic operator			
33	Pressione comando - Control pressure	:	4 - 8 Bar	
34	Connessioni pneumtiche	:	1/4" NPT - F (NAMUR)	
35	Pneumatic connections			
36	Costruttore - Manufacturer	:	AUTOMAX	
37	Modello - <i>Model</i>	:	SN 100- SR10	
38				
39	Tenuta perfetta - Perfect seal	:	YES	
40				
Note	:		PURCHASING DATA	=
1) Valv	e complete of solenoid valve, mounted on pneumatic			
•	·	Manufac	turer : ALFA VALVOLE	
2) Valv	e complete with junction box , mounted on pneumatic	Model	: A 10 N + RI	
		Supplier	: ALFA VALVOLE	
•		Order n°		



INSTRUMENT SPECIFICATION	TOLIMENT SDECIEICATION	DWG.	(1E35-80-011)
CUSTOMER:		2C57-80-015	
CUSTOME	R:	SH.	4
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

				VALVOLA A	SULI	ENOIDE - 30	JLENUIL	, val v	E				
1	Tipo					2 Vie		3 Vie	ПП	4 Vie		5 \	/ie
	Туре		SING	LE SOLENOID		2 Way	1 1 1 1	3 Way		4 Way			Way
		ione Eletti				Classificazione			-1	•			-
	Power su			110 V - 50 Hz		Area classifica		WATER	PROOF				
3	Valvola a	2 vie - in r		energia elettrica		1		Apre	ТП	Chiude			
		ve - on ele						Open	\perp	Closed		_	
	Valvola a			e energizzato		Via		Aperta		Chiusa		_	ato
	3/4/5 vie			energized		Way		Open	P-E	Closed		Ve	
	Valve at			e energizzato		Via	,	Aperta		Chiusa			ato
	3/4/5 way	'S	Solenoid	energized		Way		Open		Closed		Ve	nt
	Sigla				_	ΚV	11.5		_	_		_	
	Tag					KI							
	Servizio	_	_	_	_	AIR TO	KV 11.5		_	_		S	
	Service					7.11.70						Ţ	
7	' <u> </u>	Fluido	_		_	INSTRUM	MENT AIR			_		$\begin{bmatrix} \end{bmatrix}^{-}$	
	' 	Fluid				14011011					F	2	2 E
8	' 	Composti				N	IO						
	' 	Corrosive				"							_
9	0	Temperat		norm. / max		30 ℃						S	5
	SS		g temperat										
10	oce da	Pressione	-	norm. / max	_		7 bar		_	_			
	prc		g pressure	norm./max			i bai				F	9 3	A
11	Dati di processo <i>Process data</i>	Peso spe			_								
1.	ati Prc	Specific g				1						_	
12	" ت	Viscosità				0.03	2 Cp					E	:
10	' 	Viscosity				5,02	- 1-					_	
13	' 	Portata										٤	•
4.4	'	Flow rate										لہ	- ,
14	Tenuta perfetta Tight shut-off					YF	ES				_	,	
15		Tight shu		CV scelto		+					F	3 4	Α .
ιο	' 	CV calcol		Selected CV							E		В
16	·	Dimens. o		Dimens. sede		+	1				t	-	
10		Body size		Port size								<u> </u>	
17	'		oni e ratin			1		_					
	' 		nd connect	•		1/4" GAS	(NAMUR)				S	3
18		Materiale	corpo										
. 5	g ≯	Body mat	•			MFR.	STD.				E	ᇫᆣ	7
19	Corpo Body	Materiale				_							Α
	O 4	Seat mate				MFR.	STD.				F	5	
20	' 	Materiale					0.75					`	В
-	'	Packing r				MFR.	STD.				E	в	
21	'	Azionata	da pilota									\neg	_
	' 	Pilot oper				N	IO					S	3
22		Riarmo m		Operatore manuale	9	NO	VE2						
		Manual re		Manual operator		NO	YES				F	, IV	ILET
23		Attacco e				4/0" 1	JDT F						JTLET
	' 		connectio	on		1/2" [NPT-F				E	3 0	JTLET
24	' 	Tipo di co	ntenitore			ī	6E				E	E VE	
	' Į	Housing t	type			l lb	65				E	A VE	NT
25	'	Tropicaliz	zazione			1/5						B VE	
	<u> </u>	Tropicaliz	<u>ratio</u> n		_		ES					_	
Note:							P	URCH	ASING	DATA			
									10110	1 A T' C			
						Manufacturer			JOUCOM				
						Model	: 4	SCG55	1A001MS	5			
						Supplier	: 4	ALFA \	/ALV.				
						Order n°		291323					
						Oluel II		<u> 231323</u>					



INSTRI	JMENT SPECIFICATION	DWG.	(1E35-80-011)				
li to i i t	SINERT OF EON TOATION		2C57-80-015				
CUSTOMER:		SH.	5				
PLANT:	SULPHUREX	REV.	2				
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls				

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

	ь	DX MICRO - SWITCHES FOR SIGNALING	VALVE PUSI	TION (FOR VALVE KV 11.5)
1				
2		THECNICAL CHARACTERISTICS		
3				
4		Box protection degrre	:	IP 67
5		Material	:	ALUMINIUM PRESS. DIE-CASTING
6		Colour	:	BLACK
7		Electrical execution	:	WATERPROOF
8		Electrical connection	:	N°3 - 3/4" NPT-F
9				
10		COMPLETE WITH THE FOLLOWING		
11		COMPONENTS		
12				
13	1.	POSITION INDICATOR		
14		Two colours	:	RED - CLOSED / GREEN - OPEN
15		Material		POLICARBONATE
16		Mechanically integral with	•	
17		the shaft of the valve		
18		and driant of the valve		
19	2	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21		Will Totalion angles from 5 to 55		
22	3	TERMINAL BOARD		
23	٥.	Prewired with N°9 terminals of 2,5 mm2		
24		Colour	:	STANDARD
25		Coloui	•	CIANDAND
26	4	MICROSWITCHES		ITEM: ZS 11.5 o/c
27	•	Will have to be installed in the box		11 Em : 20 1 110 0/0
28		and connected to the		
29		terminal board N°2		PROXIMITY SWITCH
30		Manufacturer	•	PEPPERL + FUCHS
31		Model		NCN4 - 12GM - 40Z0 (with led)
32		Contact Rating	:	0,1A - 24 V d.c.
33		Electrical certification	:	0,1A - 24 ¥ u.c.
34		Liectrical certification	•	
	5	FIXING BRACKET OF THE BOX		
35	5.	COMPLETE OF THE BOX		
36		FIXING NAMUR MECHANICAL		
37		CONNECTION		
38		Material		STAINLESS STEEL
39		Material	•	STAINLESS STEEL
40				
			1	PURCHASING DATA
Note	•			FUNCHASING DATA
			Manufacturer	: AUTOMAX
			Model	: WDC0217201QQ/BT
			Supplier	: ALFA VALV.
			Order n°	: 291323
			Oluei II	. 231323



DWG. (1E35-80-011) **INSTRUMENT SPECIFICATION** 2C57-80-015 CUSTOMER: SH. 6 PLANT: **SULPHUREX** REV. 2 JOB: 2C57 (1E35) Computer code: 2C57.KVSSE.xls

	SERVO - CONTROLLED	SHUT-C	OFF VALVES		
1	Caratteristiche generali - General characterist	ics			
2	Sigla della valvola - <i>Valve tag</i>	:	KV 11.9		
3	Linea installazione valvola - Valve installation line	:	1/2"-AH-AR-1102	23-206	
4	Tipo valvola - Valve type	:	Sfera - Ball		
5	Valvola a tenuta perfetta completa di attuatore pn	eumatio	co a semplice effe	tto con ritorno a	
6	molla per assicurare la posizione di emergenza in	manca	ınza d'aria.		
7	(Deve essere prevista anche la possibilità di azio	nament	o manuale).		
8	Valve with tight shut-off complete with single actir	ng pneu	matic actuator and	d spring return to	
9	assure the emergency position in case of air failu	re.			
10	(The possibility of a manual control has to be pro	vided).			
11	In mancanza di aria (emergenza) la valvola è	:	Aperta	✓ Chiusa	
12	When air is failing (emergency) the valve is		Open	Closed	
13	Condizioni di esercizio - Operating conditions	;			
14	Fluido di processo - Process fluid	:	Process Air		
15	Pressione di esercizio - Operating pressure	:			
16	Temperatura di esercizio - Operating temperature	:	5/160 °C		
17	Materiali - <i>Materials</i>				
18	Corpo - <i>Body</i>	:	CARBON STEEL	_	
19	Sfera - Ball	:	AISI 316		
20	Anello di tenuta - Seal ring	:	R+PTFE + AM		
21					
22	Dimensioni - Size and rating				
23	Diametro nominale - Nominal diameter	:	DN 1/2"		
24	Attacchi - Connections	•	ANSI 150 RF		
25	Accessori - Accessoires				
26	N°2 Finecorsa montati sull'operatore pneumatico	per se	gnalare le posizioi	ni aperta e chiusa	
27	della valvola.				
28	N°2 Limit switches mounted on pneumatic operat	or to si	gnal the positions	open-closed of	
29	valve.				
30	Costruttore - Manufacturer	:	See sheet 8		
31	Modello - <i>Model</i>	:	See sheet 8		
32	Attuatore - Pneumatic operator				
33	Pressione comando - Control pressure	•	4 - 8 Bar		
34	Connessioni pneumtiche	:	1/4" NPT - F (NA	AMUR)	
35	Pneumatic connections				
36	Costruttore - Manufacturer	:	AUTOMAX		
37	Modello - Model	:	SN 63-SR 10		
38					
39	Tenuta perfetta - Perfect seal	:	YES		
40					
Note:			PURCHA	SING DATA	
1) Valv	e complete of solenoid valve, mounted on pneumatic				
ope	rator , for technical date see sheet 7	Manufact	urer : ALF	A VALVOLE	
2) Valv	e complete with junction box , mounted on pneumatic	Model	: A 10	N + RIO	
ope	rator , for technical date see sheet 8	Supplier	: ALF	A VALVOLE	
		Order n°	: 2913	23	



INIC	TOUMENT SPECIFICATION	DWG.	(1E35-80-011)
		2C57-80-015	
CUSTOME	R:	SH.	7
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57 KVSSE vis

				VALVOLA A	SULI	ENOIDE - 30	JLENUID	VALV	_				
1	Tipo					2 Vie	3	3 Vie		4 Vie		5 \	Vie
	Туре		SING	LE SOLENOID		2 Way	1 1 1 1	3 Way		4 Way			Way
	Alimentaz	ione Elettr				Classificazione	-		1				
	Power sup			110 V - 50 Hz		Area classifica		NATER	PROOF				
3	Valvola a	2 vie - in r		energia elettrica		ч.		Apre		Chiude			
	2 way val	<u>ve -</u> on ele						Öpen		Closed		_	
	Valvola a			e energizzato		Via		Aperta		Chiusa		_	iato
	3/4/5 vie			energized		Way		Open	P - E	Closed			ent
	Valve at			e energizzato		Via	P	Aperta		Chiusa			iato
	3/4/5 way	S	Solenoid	energized		Way	(Öpen		Closed		Vε	ent
	Sigla		_		_	ΚV	11.9		_	_		_	_
	Tag					KI							_
	Servizio	_	_	_	_	AIR TO	KV 11.9		_	_		- 5	S
	Service					7.11.70							_
7	' <u> </u>	Fluido	_		_	INSTRUM	MENT AIR		_	_		[]	
	' 	Fluid				14011011					F	7 2	2 E
8	' 	Composti				N	IO						
	' 	Corrosive				11							_
9	0	Temperat		norm. / max		30 ℃						5	3
	SS		g temperat			30 0							_
10	oce da	Pressione		norm. / max			7 bar]		
	prc		g pressure	norm./max			7 501				F	۶ ۶	3 A
11	Dati di processo <i>Process data</i>	Peso spe			_			_					┙
1.	ati Prc	Specific g	gravity			1						-	_
12	" ۵	Viscosità				0.03	2 Cp					E	=
1.0	' I	Viscosity				- 5,52	- 1"						
13	'	Portata										٤	>
4.4	' I	Flow rate										لے	'
14	' I	Tenuta pe				YF	ES				_	,	
15		Tight shu		CV scelto		+					F]	, A
ιο	'	CV calcol		Selected CV							E		⁴ в
16	-	Dimens. o		Dimens. sede		+	 				l	-	١۵
.0		Body size		Port size								Щ	
17	' I		oni e ratin										
	'	Rating an		•		1/4" GAS	(NAMUR))				C	3
18		Materiale	COLDO	50		+		-					
. 5	g ≯	Body mat				MFR.	STD.				F	ᄱ	\neg
19	Corpo Body	Materiale				_		- -			— -		Α
	O 4	Seat mate				MFR.	STD.				F	۶ د	
20	'	Materiale					075	- -				1`	ĺВ
-	' I	Packing r				MFR.	STD.				E	в	[
21	' I	Azionata	da pilota										
	'	Pilot oper				N	IO					5	3
22		Riarmo m		Operatore manuale	е	NO	\/=0						
		Manual re		Manual operator		NO	YES				F	- IN	NLET
23	· ·	Attacco e				4/0" 1	JDT F						UTLE
	'		connectio	on		1/2" [NPT-F					3 0	UTLE ⁻
24	'	Tipo di co	ntenitore			ī	6E				E	E VE	
	ĺ	Housing t	type			l lb	65				E	A VE	ENT
25	' I	Tropicaliz	zazione			1/5	ES					B VE	
	<u></u>	Tropicaliz	ration		_	YL							
Note:							Р	URCH	ASING	DATA			
.5.0													
									= =				
						Manufacturer			OUCOM				
						Model	: \$	SCG551	1A001MS	3			
						Supplier	. 1	ALFA \	/ALV				
						Order n°	: 2	291323					



INSTRU	JMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER:		SH.	8
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

	ь	OX MICRO - SWITCHES FOR SIGNALING	VALVE POSITION (FOR V	ALVE KV 11.9)
1				
2		THECNICAL CHARACTERISTICS		
3				
4		Box protection degrre	: IP 67	
5		Material		PRESS. DIE-CASTING
6		Colour	: BLACK	
7		Electrical execution	: WATERPRO	
8		Electrical connection	: N°3 - 3/4" NI	PT-F
9		COMPLETE WITH THE FOLLOWING		
10		COMPLETE WITH THE FOLLOWING COMPONENTS		
11		COMPONENTS		
12	4	POSITION INDICATOR		
	١.	Two colours	· PED - CLOSI	ED / GREEN - OPEN
14 15		Material	: POLICARBO	
16		Mechanically integral with	· FOLICANDO	NAIL
17		the shaft of the valve		
18		the shart of the valve		
19	2.	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21		3 11 11 11 11		
22	3.	TERMINAL BOARD		
23		Prewired with N°9 terminals of 2,5 mm2		
24		Colour	: STANDARD	
25				
26	4.	MICROSWITCHES	ITEM: ZS 11	I.9 o/c
27		Will have to be installed in the box		
28		and connected to the		
29		terminal board N°2	: PROXIMITY	
30		Manufacturer	: PEPPERL + I	
31		Model		1 - 40Z0 (with led)
32		Contact Rating	: 0,1A - 24 V d	.C.
33		Electrical certification	:	
34	_	FIXING BRACKET OF THE BOX		
35	5.	COMPLETE OF THE BOLTS FOR		
36 37		FIXING NAMUR MECHANICAL		
38		CONNECTION		
39		Material	: STAINLESS	STEEL
40		materia:	. 01,411,220	J
41				
Note	:		PURCHAS	SING DATA
			Manufacturer : AUTO	
)217201QQ/BT
			· · ·	VALV.
			Ordor nº . 20132	12



DWG. (1E35-80-011) **INSTRUMENT SPECIFICATION** 2C57-80-015 CUSTOMER: SH. 9 PLANT: **SULPHUREX** REV. 2

Computer code: 2C57.KVSSE.xls

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2C57 (1E35)

JOB:

	SERVO - CONTROLLED	SHUT-0	OFF VALVES	3		
1	Caratteristiche generali - General characteristi	ics				
2	Sigla della valvola - <i>Valve tag</i>	:	KV 12.2			
3	Linea installazione valvola - Valve installation line	:	1/2"-AS-12	107-215		
4	Tipo valvola - Valve type	:	Sfera - Bal	l		
5	Valvola a tenuta perfetta completa di attuatore pn	eumati	co a semplic	e effetto	con ritorno a	
6	molla per assicurare la posizione di emergenza in		•			
7	(Deve essere prevista anche la possibilità di azio					
8	Valve with tight shut-off complete with single actir		,		prina return to	
9	assure the emergency position in case of air failu	.			, 5	
10	(The possibility of a manual control has to be pro					
11	In mancanza di aria (emergenza) la valvola è	:	Aperl	ta	✓ Chiusa	
12	When air is failing (emergency) the valve is		Ор		Closed	
13	Condizioni di esercizio - Operating conditions	;	- 1-			
14	Fluido di processo - Process fluid	:	INSTRUME	NT AIR	(suitable for OLEU	M)
15	Pressione di esercizio - Operating pressure	:	Nor = 6 bar		Max = 8 barg	,
16	Temperatura di esercizio - Operating temperature	· • :	80 ℃	3		
17	Materiali - <i>Materials</i>		S 123			
18	Corpo - <i>Body</i>	:	A351 CF8			
19	Sfera - Ball	:	AISI 304			
20	Anello di tenuta - Seal ring		PTFE			
21	, who we to have a coal it mig	•	–			
22	Dimensioni - Size and rating					
23	Diametro nominale - Nominal diameter	:	DN 1/2"			
24	Attacchi - Connections	:	ANSI 150 F	RF		
25	Accessori - Accessoires					
26	N°2 Finecorsa montati sull'operatore pneumatico	perse	analare le po	sizioni a	aperta e chiusa	
27	della valvola.		J			
28	N°2 Limit switches mounted on pneumatic operat	or to si	ignal the pos	sitions o	pen-closed of	
29	valve.		,		•	
30	Costruttore - Manufacturer	:	See sheet	11		
31	Modello - <i>Model</i>	:	See sheet	11		
32	Attuatore - Pneumatic operator					
33	Pressione comando - Control pressure	:	4 - 8 Bar			
34	Connessioni pneumtiche	:	1/4" NPT -	F (NAM	IUR)	
35	Pneumatic connections			`	,	
36	Costruttore - Manufacturer	:	AUTOMAX			
37	Modello - Model	:	SN063 SR0)7		
38						
39	Tenuta perfetta - Perfect seal	:	YES			
40	·					
Note	:		PUF	CHASI	NG DATA	
	re complete of solenoid valve, mounted on pneumatic					
	·	Manufac	turer :	ALFA '	VALVOLE	
2) Valv	re complete with junction box , mounted on pneumatic	Model	:	ALFA 1	0NF	
•	·	Supplier	:	ALFA '	VALVOLE	
•	•	Order n°		291515		

Order n°



INIC	TRUMENT SPECIFICATION	DWG.	(1E35-80-011)
INS	TRUMENT SPECIFICATION		2C57-80-015
CUSTOME	R:	SH.	10
PLANT:	SULPHUREX	REV.	2
JOB.	2C57 (1F35)	Computer	code: 2C57 KVSSE xls

				VALVOLA A	SOLI	ENOIDE - SC)LENOI	ID VA	4 <i>LVE</i>						
1	Tipo					2 Vie	V	3 Vie	Э		4 Vie			5 Vie	-
	Туре			LE SOLENOID		2 Way		3 W	ay		4 Way			5 W	ay
	Alimentaz Power su	oply		110 V - 50 Hz		Classificazione Area classifica				ROOF					
				energia elettrica	-	·		Apre		$\overline{\Box}$	Chiude				
	2 way val Valvola a	ve - on ele				Via		Ope. Aper			Closed Chiusa			Cfict	
	Valvola a Solenoide energizzato 3/4/5 vie Solenoid energized			Via Way	P - A	Ope		P - E	Chiusa Closed		Sfiato Vent				
	Valve at			e energizzato		Via	1 - 7	Aper		1	Chiusa			Sfiat	
	3/4/5 way	S		energized		Way		Ope			Closed			Vent	
5	Sigla		ļ	<u> </u>			400								
	Tag					KY	12.2								
6	Servizio					AIR TO	KV 12.2							S	
_	Service					7.111.10	100 12.2							$oldsymbol{\perp}$	1
7		Fluido <i>Fluid</i>				INSTRUM	IENT All	R					Р	2	E
8		Composti				N	0								
		Corrosive					_								1
9	o o	Temperat		norm. / max		30 ℃								S	ı
10	ess	Operating Pressione		ture norm. / max norm. / max		_								$oldsymbol{\perp}$	1
10	oc.	Operating	-				7 ba	ar					Р	3	Α
11	ati di processo Process data	Peso spe	cifico	HOHH. / HIAX									1"		^
	ti d	Specific g													J
12	Dati Pro	Viscosità	, ,			0.00								Ε	
	_	Viscosity				0,02	z Cp								_
13		Portata												S	
4.4		Flow rate													1
14		Tenuta pe				YE	ES .						Р		
15		Tight shu		CV scelto									Р	4	Α
13		Calculate		Selected CV									Е	-	В
16		Dimens. o		Dimens. sede									_		
		Body size)	Port size										·	
17		Connessi		-		1/4" GAS	NAMIE	۲) 							
40		Rating an		tions		1/4" GAS (NAMUR)								S	
18	8 ×	Materiale				MFR.	STD.						- ^	\vdash	1
19	Corpo Body	Body mat Materiale											EA		Α
19	CB	Seat mate				MFR.	STD.						Р	5	^
20		Materiale					0.75						•	ľ	В
		Packing n				MFR. STD.						ΕВ			
21		Azionata				N.I	0							$oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$	•
		Pilot oper				IN	J							S	
22	Access.	Riarmo m		Operatore manual	9	NO	YES	3		_]	_		
00	Access.	Manual re		Manual operator				-					P	INL	
23		Attacco e	connectic	nn.		1/2" N	NPT-F						A		LET LET
24		Tipo di co		<i>n</i> 1									B F	VEN	
		Housing t				IP.	65							VEN	
25		Tropicaliz					-0							VEN	
		Tropicaliz				YE	ES								
Note:								PUR	CHA	SING	DATA				
						Manufacturer	:			OUCON					
						Model	:			4001MS	•				
						Supplier	:	ALF	A V	ALV.					
L						Order n°	<u> </u>	291	515						



INSTR	JMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER:		SH.	11
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

		OX MICKO - SWITCHES FOR SIGNALING	VALVE POSI	TION (TOR VALVE RV 12.2)
1				
2		THECNICAL CHARACTERISTICS		
3				
4		Box protection degrre	:	IP 67
5		Material	:	ALUMINIUM PRESS. DIE-CASTING
6		Colour	:	BLACK
7		Electrical execution	:	WATERPROOF
8		Electrical connection	:	N°3 - 3/4" NPT-F
9				
10		COMPLETE WITH THE FOLLOWING		
11		COMPONENTS		
12				
13	1.	POSITION INDICATOR		
14		Two colours	:	RED - CLOSED / GREEN - OPEN
15		Material	:	POLICARBONATE
16		Mechanically integral with		
17		the shaft of the valve		
18				
19	2.	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21				
22	3.	TERMINAL BOARD		
23		Prewired with N°9 terminals of 2,5 mm2		
24		Colour	:	STANDARD
25			•	
26	4.	MICROSWITCHES		ITEM: ZS 12.2 o/c
27	••	Will have to be installed in the box		
28		and connected to the		
29		terminal board N°2		PROXIMITY SWITCH
30		Manufacturer		PEPPERL + FUCHS
31		Model		NCN4 - 12GM - 40Z0 (with led)
32		Contact Rating		0,1A - 24 V d.c.
33		Electrical certification		5,174 2-4 V d.O.
34		Elootical continuation	•	
35	5	FIXING BRACKET OF THE BOX		
36	0.	COMPLETE OF THE BOLTS FOR		
37		FIXING NAMUR MECHANICAL		
38		CONNECTION		
39		Material		STAINLESS STEEL
40		Material	•	OTANILLOG OTELL
41				
Note:				PURCHASING DATA
NOIE .	•			I UNUITABING DATA
			Manufacturer	: AUTOMAX
			Model	: WDC0217201QQ/BT
			Supplier	: ALFA VALV.
			Order n°	291515



DWG. (1E35-80-011) **INSTRUMENT SPECIFICATION** 2C57-80-015 CUSTOMER: SH. 12 PLANT: **SULPHUREX** REV. 2 JOB: 2C57 (1E35) Computer code: 2C57.KVSSE.xls

	SERVO - CONTROLLED	SHUT-0	OFF VALVES		
1	Caratteristiche generali - General characterist	ics			
2	Sigla della valvola - <i>Valve tag</i>	:	KV 12.3		
3	Linea installazione valvola - Valve installation line	:	1"-HS-12024-21	5	
4	Tipo valvola - Valve type	:	Sfera - Ball		
5	Valvola a tenuta perfetta completa di attuatore pn	eumatio	co a semplice effe	etto con ritorno a	
6	molla per assicurare la posizione di emergenza in				
7	(Deve essere prevista anche la possibilità di azio				
8	Valve with tight shut-off complete with single actir		•	nd spring return to	
9	assure the emergency position in case of air failu			, 0	
10	(The possibility of a manual control has to be pro				
11	În mancanza di aria (emergenza) la valvola è	: `	☐ Aperta	✓ Chiusa	
12	When air is failing (emergency) the valve is		Open	Closed	
13	Condizioni di esercizio - Operating conditions	;	,		
14	Fluido di processo - Process fluid	:	OLEUM		
15	Pressione di esercizio - Operating pressure		Nor = 6 barg	Max = 8 barg	
16	Temperatura di esercizio - Operating temperature) :	80 °C	ŭ	
17	Materiali - <i>Materials</i>		S 123		
18	Corpo - <i>Body</i>	:	A351 CF8		
19	Sfera - Ball	:	AISI 304		
20	Anello di tenuta - Seal ring	:	PTFE		
21	3				
22	Dimensioni - Size and rating				
23	Diametro nominale - Nominal diameter	:	DN 1"		
24	Attacchi - Connections	:	ANSI 150 RF		
25	Accessori - Accessoires				
26	N°2 Finecorsa montati sull'operatore pneumatico	perse	analare le posizio	ni aperta e chiusa	
27	della valvola.		9	.,	
28	N°2 Limit switches mounted on pneumatic operat	or to si	ignal the position	s open-closed of	
29	valve.		9 7		
30	Costruttore - Manufacturer		See sheet 13		
31	Modello - <i>Model</i>		See sheet 13		
32	Attuatore - Pneumatic operator				
33	Pressione comando - Control pressure	:	4 - 8 Bar		
34	Connessioni pneumtiche	:	1/4" NPT - F (N	AMUR)	
35	Pneumatic connections		•	,	
36	Costruttore - Manufacturer	:	AUTOMAX		
37	Modello - <i>Model</i>	:	SN085 SR07		
38					
39	Tenuta perfetta - Perfect seal	:	YES		
40	•				
Note	:		PURCH/	ASING DATA	
1) Valv	e complete of solenoid valve, mounted on pneumatic				
	·	Manufact	turer : ALF	A VALVOLE	
2) Valv	e complete with junction box , mounted on pneumatic	Model	: ALF	A 10NF	
ope	rator , for technical date see sheet 14	Supplier	: ALF	A VALVOLE	
		Order n°	: 291	515	



INIC	TRUMENT SPECIFICATION	DWG.	(1E35-80-011)
INS	TRUMENT SPECIFICATION		2C57-80-015
CUSTOME	R:	SH.	13
PLANT:	SULPHUREX	REV.	2
.IOB·	2C57 (1F35)	Computer	code: 2C57 KVSSF xls

				VALVOLA A	SULI	ENOIDE - 30	JLENUID	VALV	_					
1	Tipo					2 Vie	3	3 Vie		4 Vie		5	Vie	
	Туре		SING	LE SOLENOID		2 Way	1 1 1/ 1	3 Way		4 Way			Way	/
	Alimentaz	ione Elettr				Classificazione	-		1					
	Power su			110 V - 50 Hz		Area classifica		NATER I	PROOF					
3	Valvola a	2 vie - in r		energia elettrica		ч.		Apre		Chiude				
	2 way val	<u>ve -</u> on ele						Öpen		Closed		_		_
	Valvola a			e energizzato		Via		Aperta		Chiusa		_	fiato	
	3/4/5 vie			energized		Way		Open	P - E	Closed			ent	
	Valve at			e energizzato		Via	A	Aperta		Chiusa			fiato	
	3/4/5 way	S	Solenoid	energized		Way	(Öpen		Closed		Ve	ent	
	Sigla		_		_	ΚV	12.3			_		_	_	
	Tag					KI							_	ŀ
	Servizio	_	_	_	_	AIR TO	KV 12.3		_	_		,	S	ļ
	Service					7.11.70						_	_	
7	<u> </u>	Fluido			_	INSTRUM	MENT AIR	_				_ _		_
	'	Fluid				14011011					i	P :	2	Е
8	'	Composti				N	IO							
	'	Corrosive				"						-		
9	0	Temperat		norm. / max		30 ℃						;	S	
	SS		g temperat										L	
10	da	Pressione		norm. / max			7 bar				1		1	
	prc		g pressure	norm./max			, bal				I	P :	3	Α
11	Dati di processo <i>Process data</i>	Peso spe			_			_					Ш	
1.	ati Prc	Specific g	gravity			1						-	_	
12	" ۵	Viscosità				0.03	2 Cp						E	
1.0	'	Viscosity				5,02	- 1-						_	
13		Portata											3	
4.4	' I	Flow rate										_	Щ	
14	' I	Tenuta pe				YF	ES					,	- 1	
15		Tight shu		CV scelto		+	T					P	4	Α
ιο		CV calcol		Selected CV							١.	E '	4	В
16		Dimens. o		Dimens. sede		+		_			'	-		ں
.0		Body size		Port size										
17	' I		oni e ratin			1		-						
		Rating an		•		1/4" GAS	(NAMUR))					S	
18		Materiale	corpo					-			$\overline{}$		Ť	
. 5	g ≯	Body mat				MFR.	STD.				F	ΑГ	\neg	
19	Corpo Body	Materiale				_		_				- [Α
	0 4	Seat mate				MFR.	STD.					Р .	5	-
20		Materiale					0.75	_			─			В
-	' I	Packing r				MFR.	STD.				F	В	- 1	
21	' I	Azionata	da pilota					-				<u> </u>	Г'	
		Pilot oper				N	Ю					,	S	
22		Riarmo m		Operatore manuale	е	NO	VE0							
		Manual re		Manual operator		NO	YES					P II	NLE	Т
23		Attacco e				4/0" 1	JDT F						UTL	
			connectio	on		1/2" [NPT-F					3 C	UTL	ET.
24		Tipo di co				ī	G E					E V		
		Housing type			l lb	65				E	A V	ENT		
25	' I	Tropicaliz	zazione			1/5	ES					B V		
	<u> </u>	Tropicaliz	ration		_	YL							_	
Note:							P	URCH	ASING	DATA				
.5.0									.510					
									0110					
						Manufacturer			OUCOM					
						Model	: \$	3CG551	A001M	3				
						Supplier		ALFA V	ALV.					
								291515						
						Order n°	: 2	291010						



INSTR	UMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER:		SH.	14
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

			.,		(10111111111111111111111111111111111111
1					
2		THECNICAL CHARACTERISTICS			
3					
4		Box protection degrre	:	IP 67	
5		Material	:		MINIUM PRESS. DIE-CASTING
6		Colour	:	BLAC	
7		Electrical execution	:		ERPROOF
8		Electrical connection	:	N°3 -	3/4" NPT-F
9					
10		COMPLETE WITH THE FOLLOWING			
11		COMPONENTS			
12					
13	1.	POSITION INDICATOR			
14		Two colours	:	RED	- CLOSED / GREEN - OPEN
15		Material	:	POLI	CARBONATE
16		Mechanically integral with			
17		the shaft of the valve			
18					
19	2.	ACTUATING CAMS			
20		With rotation angles from 0 to 90°			
21					
22	3.	TERMINAL BOARD			
23		Prewired with N°9 terminals of 2,5 mm2			
24		Colour	:	STAN	NDARD
25					
26	4.	MICROSWITCHES		ITEM	: ZS 12.3 o/c
27		Will have to be installed in the box			
28		and connected to the			
29		terminal board N°2	:		XIMITY SWITCH
30		Manufacturer	:		PERL + FUCHS
31		Model	:		4 - 12GM - 40Z0 (with led)
32		Contact Rating	:	0,1A	- 24 V d.c.
33		Electrical certification	:		
34					
35	5.	FIXING BRACKET OF THE BOX			
36		COMPLETE OF THE BOLTS FOR			
37		FIXING NAMUR MECHANICAL			
38		CONNECTION			
39		Material	:	STAI	NLESS STEEL
40					
41					
Note	:			Pl	JRCHASING DATA
			Manufacturer	•	AUTOMAX
			Model	:	WDC0217201QQ/BT
			Supplier	:	ALFA VALV.
			Order n°	:	291515



DWG. (1E35-80-011) **INSTRUMENT SPECIFICATION** 2C57-80-015 CUSTOMER: SH. 15 PLANT: **SULPHUREX** REV. 2 JOB: 2C57 (1E35) Computer code: 2C57.KVSSE.xls

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Order n°

291515



INIC	TRUMENT SPECIFICATION	DWG.	(1E35-80-011)
INS	TROMENT SPECIFICATION		2C57-80-015
CUSTOME	R:	SH.	16
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	r code: 2C57.KVSSE.xls

				VALVOLAA	JOL	ENOIDE - 30	JLENOIL	VAL	· L					
1	Tipo					2 Vie		3 Vie		4 Vie			5 Vie)
	Туре		SING	LE SOLENOID		2 Way		3 Way		4 Way			5 Wa	
2	Alimentaz		rica			Classificazione	area			<u> </u>				
	Power su	pply		110 V - 50 Hz		Area classifica		WATER	PROOF					
3				energia elettrica				Apre		Chiude				
	2 way val	ve - on ele	ectric failu	re		T		Open	Ш	Closed				
4	Valvola a			e energizzato		Via		Aperta		Chiusa			Sfiate	-
	3/4/5 vie			energized .		Way		Open	P-E	Closed			Vent	
	Valve at			e energizzato		Via		Aperta		Chiusa Closed			Sfiate	
5	3/4/5 way Sigla	8	Soleriola	energized		Way		Open		Ciosea	1		Vent	
3	Tag					KY	12.4							
6	Servizio											F	S	
	Service					AIR TO	KV 12.4					L	Ť	
7	00/1/00	Fluido										Г	\dashv	
		Fluid				INSTRUM	MENT AIR					РΪ	2	Е
8		Composti	corrosivi									_	_	_
		Corrosive				N	Ю					-		
9		Temperat		norm. / max		20.20						ſ	S	
	ssc 'a		g tempera	ture norm./max		30 ℃						-	Т	
10	ces	Pressione		norm. / max			7 5					Γ		
	oro SS	Operating	g pressure	norm./max			7 bar					Р	3	Α
11	Dati di processo Process data	Peso spe										Ĺ		
	rti o	Specific g	gravity										_	
12) D	Viscosità				0.03	2 Cp						Е	
40		Viscosity					r					г		
13		Portata Flow rate										L	S	
14		Tenuta pe										r	ᅩ	
14		Tight shu				YI	ES					Р		Α
15		CV calcol		CV scelto								•	4	^
. •		Calculate		Selected CV								Ε	.	В
16		Dimens.		Dimens. sede										
		Body size		Port size								-		
17		Connessi		•		1/4" GAS	/ NIAMITE	١				_		
		Rating an		tions		1/4 GAG	(INAMOIN	,				L	S	
18	0 \	Materiale				MFR	STD.						Щ,	
4.0	Corpo Body	Body mat										EA		
19	υğ	Materiale Seat mate				MFR.	STD.					Р	_	Α
20		Materiale										۲	5	В
20		Packing r				MFR.	STD.					ЕВ		ם
21		Azionata										-5 L	ᅮ	
- '		Pilot oper				N	Ю					Г	S	
22	Access.	Riarmo m		Operatore manuale)							L		
	Access.	Manual re		Manual operator		NO	YES					Р	INLE	тΙ
23		Attacco e				4 /0" 1	UDT F						OUT	
		Electrical	connection	on		1/2 1	NPT-F					В	OUT	LET
24		Tipo di co				ID	65						VEN.	
		Housing t				IF	00						VEN.	
25		Tropicaliz				YI	ES					ΞB '	VEN.	T
		Tropicaliz	ration											
Note	:						F	<u> URCH</u>	ASING	DATA				
						Manufacturer		ASCO.	JOUCON	IATIC				
									1A001M					
						Model	-			3				
						Supplier		ALFA '						
						Order n°	:	291515						



INSTR	UMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER:		SH.	17
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

	В	OX MICRO - SWITCHES FOR SIGNALING	VALVE POSI	ITION	(FOR VALVE KV 12.4)	
1						
2		THECNICAL CHARACTERISTICS				
3						
4		Box protection degrre	:	IP 67		
5		Material	:		MINIUM PRESS. DIE-CASTING	
6		Colour	:	BLAC		
7		Electrical execution Electrical connection	:		ERPROOF 3/4" NPT-F	
8		Electrical connection	:	N 3 -	3/4 NP1-F	
9		COMPLETE WITH THE FOLLOWING				
11		COMPONENTS				
12		COMI CIVELVIO				
13	1.	POSITION INDICATOR				
14	•••	Two colours	:	RED .	- CLOSED / GREEN - OPEN	
15		Material	:		CARBONATE	
16		Mechanically integral with	•			
17		the shaft of the valve				
18						
19	2.	ACTUATING CAMS				
20		With rotation angles from 0 to 90°				
21						
22	3.	TERMINAL BOARD				
23		Prewired with N°9 terminals of 2,5 mm2				
24		Colour	:	STAN	IDARD	
25						
26	4.	MICROSWITCHES		ITEM	: ZS 12.4 o/c	
27		Will have to be installed in the box				
28		and connected to the				
29		terminal board N°2	:		XIMITY SWITCH	
30		Manufacturer	:		PERL + FUCHS	
31		Model	:		4 - 12GM - 40Z0 (with led)	
32		Contact Rating	:	U,1A ·	- 24 V d.c.	
33		Electrical certification	:			
34	5.	FIXING BRACKET OF THE BOX				
35 36	5.	COMPLETE OF THE BOX				
37		FIXING NAMUR MECHANICAL				
38		CONNECTION				
39		Material	:	STAI	NLESS STEEL	
40		materia:	•	• • • • • • • • • • • • • • • • • • • •		
41						
Vote	:			PL	JRCHASING DATA	=
						_
			Manufacturer	:	AUTOMAX	
			Model	:	WDC0217201QQ/BT	
			Supplier	:	ALFA VALV.	
			Order n°	:	291515	



2) Valve complete with junction box, mounted on pneumatic

operator, for technical date see sheet 20

INSTRUMENT SPECIFICATION

DWG. (1E35-80-011)

18

2

SH.

REV.

2C57-80-015

CUSTOMER:
PLANT: SULPHURE

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

Computer code: 2C57.KVSSE.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

1	Caratteristiche generali - General characteristi	ics							
2	Sigla della valvola - Valve tag	:	KV 12.5						
3	Linea installazione valvola - Valve installation line	:	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	Valve with tight shut-off complete with single actin	ng pneu	ımatic actuator and	l spring return to					
9	assure the emergency position in case of air failu	re.							
10	(The possibility of a manual control has to be pro	vided).		_					
11	In mancanza di aria (emergenza) la valvola è	:	Aperta	✓ Chiusa					
12	When air is failing (emergency) the valve is		Open	Closed					
13	Condizioni di esercizio - Operating conditions	;							
14	Fluido di processo - Process fluid	:	OLEUM						
15	Pressione di esercizio - Operating pressure	:	Nor = 6 barg	Max = 8 barg					
16	Temperatura di esercizio - Operating temperature	:	80 ℃						
17	Materiali - Materials		S 123						
18	Corpo - Body	:	A351 CF8						
19	Sfera - Ball	:	AISI 304						
20	Anello di tenuta - Seal ring	:	PTFE						
21	G								
22	Dimensioni - Size and rating								
23	Diametro nominale - Nominal diameter	:	DN 2"						
24	Attacchi - Connections	:	ANSI 150 RF						
25	Accessori - Accessoires								
26	N°2 Finecorsa montati sull'operatore pneumatico	perse	analare le posizion	i aperta e chiusa					
27	della valvola.		9	.,					
28	N°2 Limit switches mounted on pneumatic operat	or to si	ignal the positions	open-closed of					
29	valve.		J	.,					
30	Costruttore - Manufacturer	:	See sheet 20						
31	Modello - <i>Model</i>		See sheet 20						
32	Attuatore - Pneumatic operator	-	000 0001 =0						
33	Pressione comando - Control pressure		4 - 8 Bar						
34	Connessioni pneumtiche		1/4" NPT - F (NA	MUR)					
35	Pneumatic connections	-	., (
36	Costruttore - <i>Manufacturer</i>		AUTOMAX						
37	Modello - <i>Model</i>		SN115 SR07						
38	modelle model	•							
39	Tenuta perfetta - Perfect seal		YES						
40	Totala politica i olioot oodi	•	5						
70									
Note :	I		PURCHAS	SING DATA					
	e complete of solenoid valve, mounted on pneumatic								
,		Manufac	turer : ALFA	VALVOLE					

Model

Supplier

Order n°

ALFA 10NF

291515

ALFA VALVOLE



	INSTRUMENT SPECIFICATION	DWG.	(1E35-80-011)
	INSTRUMENT SPECIFICATION		2C57-80-015
(CUSTOMER:	SH.	19
F	PLANT: SULPHUREX	REV.	2
J	JOB: 2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

				VALVOLA A	SULI	ENOIDE - 30	JLENUID	VALV	_					
1	Tipo					2 Vie	3	3 Vie		4 Vie		5	Vie	
	Туре		SING	LE SOLENOID		2 Way	1 1 1 1	3 Way		4 Way			Wa	y
	Alimentaz	ione Elettr				Classificazione	-		1					
	Power su			110 V - 50 Hz		Area classifica		NATER	PROOF					
3	Valvola a	2 vie - in r		energia elettrica		ч.		Apre		Chiude				
	2 way val	<u>ve -</u> on ele						Öpen		Closed		_	_	_
	Valvola a			e energizzato		Via		Aperta		Chiusa		_	fiato)
	3/4/5 vie			energized		Way		Open	P - E	Closed			'ent	
	Valve at			e energizzato		Via	P	Aperta		Chiusa			fiato)
	3/4/5 way	'S	Solenoid	energized		Way	(Öpen		Closed	<u></u>	V	'ent	
	Sigla				_	ΚV	12.5		_	_		_	_	
	Tag					KI						_	_	
	Servizio	_	_	_	_	AIR TO	KV 12.5		_	_			S	
	Service					7.11.70						_		
7	' <u> </u>	Fluido	_		_	INSTRUM	MENT AIR		_	_		_ ¯	_	_
	' 	Fluid				14011011					i	P	2	Ε
8	' 	Composti				N	IO					L		
	' 	Corrosive				"								
9	0	Temperat		norm. / max		30 ℃							S	
	SS		g temperat									_	L	
10	oce da	Pressione	-	norm. / max	_		7 bar		_	_				
	prc		g pressure	norm./max			7 501				i	P	3	Α
11	Dati di processo <i>Process data</i>	Peso spe			_			_					\Box	
1.	ati Prc	Specific g				1							_	
12	" ث					0.03	2 Cp						E	
10	' I	Viscosity				5,02	- 1"						_	
13	'	Portata											5	
4.4	' I	Flow rate										_	Ц,	
14	' I	Tenuta pe				YF	ES					,		
15		Tight shu		CV scelto		+					—	P	4	Α
ιο	'	CV calcol		Selected CV							١.	E	4	В
16	-	Dimens. o		Dimens. sede		+	 				—— ¹	-		٥
10		Body size		Port size								L		
17	' I		oni e ratin			1					-			
	' I		nd connect	•		1/4" GAS	(NAMUR))					S	
18		Materiale	corpo					-					Ť	
. 5	g ≯	Body mat	•			MFR.	STD.				F	ΑГ	\Box	
19	Corpo Body	Materiale				_		$\overline{}$						Α
	O 4	Seat mate				MFR.	STD.					Р	5	
20	' 	Materiale					075	$\overline{}$			— '			В
	' I	Packing r				MFR.	STD.				F	В		
21	' I	Azionata	da pilota								$ \parallel$	_	Τ'	
	' 	Pilot oper				N	IO						S	
22		Riarmo m		Operatore manuale	9	NO	\/=0							
		Manual re		Manual operator		NO	YES					P II	NLE	Т
23	· ·	Attacco e				4/0" 1	JDT F						DUTL	
	' 		connectio	on		1/2" [NPT-F					ВС	DUTL	LET
24	' 	Tipo di co				ī	6E				I	E V		
	ĺ	Housing t	type			l lb	65				E	A V	'ENT	Г
25	' I	Tropicaliz	zazione			1/5	=					B V		
	<u> </u>	Tropicaliz	<u>ratio</u> n		_		ES							_
Note:							Р	URCH	ASING	DATA				
.5.0														
						Manufacturer			OUCOM					
						Model	: \$	3CG551	1A001MS	3				
						Supplier	. 1	ALFA \	/ALV					
								291515						
						Order n°	: 2	291010						



INSTR	JMENT SPECIFICATION	DWG.	(1E35-80-011)
			2C57-80-015
CUSTOMER:		SH.	20
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

		OX MICKO - SWITCHES FOR SIGNALING	VALVETOSI	HOW (TOR VALVE RV 12.5)
1				
2		THECNICAL CHARACTERISTICS		
3				
4		Box protection degrre	:	IP 67
5		Material	:	ALUMINIUM PRESS. DIE-CASTING
6		Colour	:	BLACK
7		Electrical execution	:	WATERPROOF
8		Electrical connection	:	N°3 - 3/4" NPT-F
9				
10		COMPLETE WITH THE FOLLOWING		
11		COMPONENTS		
12				
13	1.	POSITION INDICATOR		
14		Two colours	:	RED - CLOSED / GREEN - OPEN
15		Material	:	POLICARBONATE
16		Mechanically integral with		
17		the shaft of the valve		
18				
19	2.	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21		ŭ		
22	3.	TERMINAL BOARD		
23		Prewired with N°9 terminals of 2,5 mm2		
24		Colour	:	STANDARD
25				
26	4.	MICROSWITCHES		ITEM: ZS 12.5 o/c
27		Will have to be installed in the box		
28		and connected to the		
29		terminal board N°2	:	PROXIMITY SWITCH
30		Manufacturer	:	PEPPERL + FUCHS
31		Model	:	NCN4 - 12GM - 40Z0 (with led)
32		Contact Rating	:	0,1A - 24 V d.c.
33		Electrical certification	:	
34				
35	5.	FIXING BRACKET OF THE BOX		
36		COMPLETE OF THE BOLTS FOR		
37		FIXING NAMUR MECHANICAL		
38		CONNECTION		
39		Material	:	STAINLESS STEEL
40				
41				
Note	:			PURCHASING DATA
			Manufacturer	: AUTOMAX
			Model	: WDC0217201QQ/BT
			Supplier	: ALFA VALV.
			Order n°	: 291515



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SERVO - CONTROLLED SHUT-OFF VALVES

	SERVO - CONTROLLED S	3001-0	JFF VALVES		
1	Caratteristiche generali - General characterist	ics			
2	Sigla della valvola - <i>Valve tag</i>	:	KV 16.20		
3	Linea installazione valvola - Valve installation line	:	3"-AA-16012-206		
4	Tipo valvola - Valve type	:	Sfera - Ball		
5	Valvola a tenuta perfetta completa di attuatore pn	eumatio	co a semplice effett	to con ritorno a	
6	molla per assicurare la posizione di emergenza in	manca	anza d'aria.		
7	(Deve essere prevista anche la possibilità di azio	namen	to manuale).		
8	Valve with tight shut-off complete with single actin	ng pneu	matic actuator and	spring return to	
9	assure the emergency position in case of air failu	re.			
10	(The possibility of a manual control has to be pro	vided).	i		
11	In mancanza di aria (emergenza) la valvola è	:	Aperta	Chiusa	
12	When air is failing (emergency) the valve is		Open	Closed	
13	Condizioni di esercizio - Operating conditions	;			
14	Fluido di processo - Process fluid	:	AIR		
15	Pressione di esercizio - Operating pressure	:	Nor = 0.45 barg	Max = 0,9 barg	
16	Temperatura di esercizio - Operating temperature	:	25 ℃		
17	Materiali - <i>Materials</i>		S 127		
18	Corpo - Body	:	A105		
19	Sfera - Ball	:	AISI 304		
20	Anello di tenuta - Seal ring	:	PTFE		
21					
22	Dimensioni - Size and rating				
23	Diametro nominale - Nominal diameter	:	DN 3"		
24	Attacchi - Connections	:	ANSI 150 RF		
25	Accessori - Accessoires				
26	N°2 Finecorsa montati sull'operatore pneumatico	pe r se	gnalare le posizioni	aperta e chiusa	
27	della valvola.			•	
28	N°2 Limit switches mounted on pneumatic operat	or to si	ignal the positions	open-closed of	
29	valve.			•	
30	Costruttore - Manufacturer	:	See sheet 23		
31	Modello - Model	:	See sheet 23		
32	Attuatore - Pneumatic operator				
33	Pressione comando - Control pressure	:	4 - 8 Bar		
34	Connessioni pneumtiche	:	1/4" NPT - F (NAI	MUR)	
35	Pneumatic connections				
36	Costruttore - Manufacturer	:	AUTOMAX		
37	Modello - Model	:	SN150 SR07		
38					
39	Tenuta perfetta - Perfect seal	:	YES		
40					
Note	:		PURCHAS	SING DATA	
1) Valv	ve complete of solenoid valve, mounted on pneumatic				
ope	operator , for technical date see sheet 22 Manufacturer : ALFA VALVOLE				
2) Valv	ve complete with junction box , mounted on pneumatic	Model	: ALFA	10N	
one	erator , for technical date see sheet 23	Supplier	· AIFA	VALVOLE	

Order n°

291515



INIG.	TRUMENT SPECIFICATION	DWG.	(1E35-80-011)
INS	INUMENT SPECIFICATION		2C57-80-015
CUSTOME	R:	SH.	22
PLANT:	SULPHUREX	REV.	2
IOB:	2C57 (1E35)	Computer	code: 2C57 KVSSE vis

				VALVOLA A	SOL	ENOIDE - SC	JLENOI	U VA	LVE						
1	Tipo					2 Vie	V	3 Vie) [4 Vie			5 Vie	-
	Туре			LE SOLENOID		2 Way		3 Wa	$y \mid^{\perp}$		4 Way			5 W	ay
	Alimentaz Power su	oply		110 V - 50 Hz	•	Classificazione Area classifica		WAT	ER PR	OOF					
				energia elettrica	-			Apre			Chiude				
	2 way val Valvola a	ve - on ele		re e energizzato		Via		Oper Aper			Closed Chiusa		0.0		
	3/4/5 vie		Solenoid	e energizzato energized		Way	P-A	Oper		P - E	Closed			Sfiat Vent	
	Valve at			e energizzato		Via	1 - 7	Aper		1	Chiusa	Sfiato			
	3/4/5 way	S		energized		Way		Oper			Closed			Vent	
5	Sigla					I/V 4	6.20	,							
	Tag					NI I	16.20								_
6	Servizio					AIR TO I	KV 16.20)						S	
7	Service	Fluido				INSTRUM							_] _
8		Fluid Composti	corrosivi										Р	2	Е
		Corrosive agents								'					
9	0	Temperat	ura	norm. / max		30 ℃								S	
	SS(ta		g temperat			30 C									_
10	oce da	Pressione		norm. / max			7 ba	ar		-			_		
11	ati di processo Process data	Operating Peso spe	g pressure	norm./max			. 30						Р	3	Α
11	i di òc	Specific g													J
12	Dati Pro	Viscosità	navny											Е	
	_	Viscosity				0,02	2 Cp								
13		Portata												S	
		Flow rate													
14		Tenuta pe				YF	≣S						_		
15		Tight shu CV calcol		CV scelto									Р	4	Α
13		Calculate		Selected CV									Е	4	В
16		Dimens.		Dimens. sede									-		
		Body size)	Port size											
17			oni e ratin	-		1/4" GAS	(NAMI IF	۶)							
40			d connect	ections		17 1 07 10 1	(177 (1710)	`)						S	
18	ج ۶	Materiale				MFR. STD.							ΕA	\perp	1
19	Corpo Body	Body mat Materiale											EA		Α
.5	OA	Seat mate				MFR. STD.							Р	5	^
20		Materiale					OTO						•		В
		Packing r	material			MFR.	STD.						ΕВ		
21		Azionata				N	0								
	_	Pilot oper				IN								S	
22	Access.	Riarmo m		Operatore manual	Э	NO	YES	3					_	18.11	
23	Access.	Manual re		Manual operator									P A	INL	E I [LET
20			connectic	nn		1/2" N	NPT-F						В		LET
24		Tipo di co												VEN	
		Housing type Tropicalizzazione				IP.	65							VEN	
25						\/r	ES .							VEN	
		Tropicaliz	ation			YE	_3								
Note:								PUR	CHAS	SING I	DATA				
						Manufacturer Model Supplier Order n°	: : : : :	SCG	5551A A VA	UCOM 001MS LV.					
						Order n-	:	2913	טוט						



INSTRU	JMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER:		SH.	23
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

	ВС	7X MICKO - SWITCHES FOR SIGNALING	VALVE FOSI	HON (TOR VALVE RV 10.20)
1				
2		THECNICAL CHARACTERISTICS		
3				
4		Box protection degrre	:	IP 67
5		Material	:	ALUMINIUM PRESS. DIE-CASTING
6		Colour	:	BLACK
7		Electrical execution	:	WATERPROOF
8		Electrical connection	:	N°3 - 3/4" NPT-F
9				
10		COMPLETE WITH THE FOLLOWING		
11		COMPONENTS		
12				
13	1.	POSITION INDICATOR		
14		Two colours	:	RED - CLOSED / GREEN - OPEN
15		Material	:	POLICARBONATE
16		Mechanically integral with		
17		the shaft of the valve		
18				
19	2.	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21		ŭ		
22	3.	TERMINAL BOARD		
23		Prewired with N°9 terminals of 2,5 mm2		
24		Colour	:	STANDARD
25				
26	4.	MICROSWITCHES		ITEM: ZS 16.20 o/c
27		Will have to be installed in the box		
28		and connected to the		
29		terminal board N°2	:	PROXIMITY SWITCH
30		Manufacturer		PEPPERL + FUCHS
31		Model	:	NCN4 - 12GM - 40Z0 (with led)
32		Contact Rating	:	0,1A - 24 V d.c.
33		Electrical certification	:	5,174 2-4 V d.O.
34		Elootical continuation	•	
35	5	FIXING BRACKET OF THE BOX		
36	0.	COMPLETE OF THE BOLTS FOR		
37		FIXING NAMUR MECHANICAL		
38		CONNECTION		
39		Material		STAINLESS STEEL
40		Waterial	•	STAINEESS STEEL
41				
				PURCHASING DATA
Vote				FUNCHASING DATA
			Monufactures	: AUTOMAX
			Manufacturer Model	: WDC0217201QQ/BT
				: WDC0217201QQ/B1 : ALFA VALV.
			Supplier	
			Order n°	: 291515



JOB:

DWG. (1E35-80-011) **INSTRUMENT SPECIFICATION** 2C57-80-015 CUSTOMER: SH. 24 PLANT: **SULPHUREX** REV. 2

Computer code: 2C57.KVSSE.xls

	SERVO - CONTROLLED SHUT-OFF VALVES							
1	Caratteristiche generali - General characterist	ics						
2	Sigla della valvola - <i>Valve tag</i>	:	KV 33.1					
3	Linea installazione valvola - Valve installation line	:	1/2"-WP-33132-2	215				
4	Tipo valvola - Valve type	:	Sfera - Ball					
5	Valvola a tenuta perfetta completa di attuatore pn	eumatio	co a semplice effe	tto con ritorno a				
6	molla per assicurare la posizione di emergenza in							
7	(Deve essere prevista anche la possibilità di azio							
8	Valve with tight shut-off complete with single actir		,	d spring return to				
9	assure the emergency position in case of air failu			, 0				
10	(The possibility of a manual control has to be pro							
11	În mancanza di aria (emergenza) la valvola è	: `	Aperta	Chiusa				
12	When air is failing (emergency) the valve is		Open	Closed				
13	Condizioni di esercizio - Operating conditions	;	•					
14	Fluido di processo - Process fluid	:	WATER					
15	Pressione di esercizio - Operating pressure	:	Nor = 3 barg	Max = 5 barg				
16	Temperatura di esercizio - Operating temperature) :	30 ℃	· ·				
17	Materiali - <i>Materials</i>		S 123					
18	Corpo - Body	:	A351 CF8					
19	Sfera - Ball	:	AISI 304					
20	Anello di tenuta - Seal ring	:	TEFLON					
21	-							
22	Dimensioni - Size and rating							
23	Diametro nominale - Nominal diameter	:	DN 1/2"					
24	Attacchi - Connections	:	ANSI 150 RF					
25	Accessori - Accessoires							
26	N°2 Finecorsa montati sull'operatore pneumatico	pe r se	gnalare le posizioi	ni aperta e chiusa				
27	della valvola.							
28	N°2 Limit switches mounted on pneumatic operat	or to si	ignal the positions	open-closed of				
29	valve.							
30	Costruttore - Manufacturer	:	See sheet 26					
31	Modello - <i>Model</i>	:	See sheet 26					
32	Attuatore - Pneumatic operator							
33	Pressione comando - Control pressure	:	4 - 8 Bar					
34	Connessioni pneumtiche	:	1/4" NPT - F (N/	AMUR)				
35	Pneumatic connections							
36	Costruttore - Manufacturer	:	AUTOMAX					
37	Modello - <i>Model</i>	:	SN063 SR07					
38								
39	Tenuta perfetta - Perfect seal	:	YES					
40								
Note:			PURCHA	SING DATA				
1) Valv	e complete of solenoid valve, mounted on pneumatic							
•	,	Manufact		A VALVOLE				
•		Model		A 10NF				
ope	·	Supplier		A VALVOLE				
		Order n°	: 2915	15				



INICTO	UMENT SPECIFICATION	DWG.	(1E35-80-011)			
INSTR	UNILINI SPLOIFICATION		2C57-80-015			
CUSTOMER:		SH.	25			
PLANT:	SULPHUREX	REV.	2			
JOB:	2C57 (1E35)	Computer	Computer code: 2C57.KVSSE.xls			

				VALVOLA A	SULI	ENOIDE - 30	JLENUID	VALV	_					
1	Tipo					2 Vie	3	3 Vie		4 Vie		5 \	Vie	╡
	Туре		SING	LE SOLENOID		2 Way	1 1 1 1	3 Way		4 Way			Way	
		ione Eletti				Classificazione	-		1					
	Power su			110 V - 50 Hz		Area classifica		WATER	PROOF					
3	Valvola a	2 vie - in r		energia elettrica		ч.		Apre		Chiude				
		ve - on ele						Öpen		Closed		_	_	
	Valvola a			e energizzato		Via		Aperta		Chiusa		_	iato	
	3/4/5 vie			energized		Way		Open	P - E	Closed			ent	
	Valve at			e energizzato		Via	P	Aperta		Chiusa			iato	
	3/4/5 way	'S	Solenoid	energized		Way	(Open		Closed		Ve	ent	
	Sigla				_	KY	33.1		_	_		_	_	
	Tag					1(1 00.1							_	ļ
	Servizio				AIR TO	KV 33.1		_	_		- 5	3	ļ	
	Service					7.11.70								
7	' <u> </u>	Fluido	_		_	INSTRUM	MENT AIR	_	_	_		[]		
	' 	Fluid			INSTRUMENT AIR						F	7 2	2 E	
8	' 		omposti corrosivi											
	' 	Corrosive				"							_	
9	0	Temperat		norm. / max		30 ℃						5	3	
	SS		g temperat											
10	oce da	Pressione	-	norm. / max	_		7 bar		_	_				
	prc		g pressure	norm. / max			, pai				F	۶ ۶	3 A	١
11	Dati di processo <i>Process data</i>	Peso spe			_									
1.	ati Prc	Specific g				1						-	_	
12	" ت	Viscosità				0.03	2 Cp					E	Ξ	
10	' 	Viscosity				5,02	- 11						$\overline{}$	
13	' 	Portata										٤	>	
4.4	'	Flow rate										لے	Ч	
14	'	Tenuta pe				YF	ES				_	,		
15		Tight shu		CV scelto		+					F		4 A	١,
ιο	' 	CV calcol		Selected CV							Е		⁴le	Į
16	·	Dimens. o		Dimens. sede		+	 	_			t	-	[•
10		Body size		Port size								<u> </u>		
17	'		oni e ratin			1		-						
	' 	Rating an		-		1/4" GAS (NAMUR)						•	3	
18		Materiale	corpo											
. 5	g ≯	Body mat	•			MFR.	STD.				E	$A\Gamma$	\neg	
19	Corpo Body	Materiale				_	0						4	
	O 4	Seat mate				MFR.	STD.				F	۶ د		
20	' 	Materiale					0.77					1`	É	3
	'	Packing r				MFR.	STD.				E	в	-	
21	'	Azionata	da pilota				10							
	' 	Pilot oper				N	IO					5	3	
22		Riarmo m		Operatore manual	9	NO	\/=0							
		Manual re		Manual operator		NO	YES				F) IV	NLET	
23		Attacco e				4/0"	JDT F						UTLE	Т
	' 		connectio	on		1/2" [NPT-F				E	3 0	UTLE	
24	' 	Tipo di co				ī	6E				E	E VE		
	' 	Housing type		l lb	65				E	A VE	ENT			
25	'	Tropicaliz	zazione			1/5	=e					B VE		
	<u></u>	Tropicaliz	<u>ratio</u> n		_		ES					_	_	
Note:							Р	URCH	ASING	DATA				T
														7
								٠	0110	147.5				
						Manufacturer			OUCOM					
						Model	: \$	SCG551	A001MS	3				
						Supplier		ALFA \	'ALV.					
						Order n°		291515						
						Oluel II		201010						



INST	RUMENT SPECIFICATION	DWG.	(1E35-80-011)
"1011	COMENT OF EON TOATION		2C57-80-015
CUSTOMER:		SH.	26
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Compute	r code: 2C57.KVSSE.xls

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

	B	OX MICRO - SWITCHES FOR SIGNALING	VALVE POSI	HON	(FOR VALVE KV 33.1)
1					
2		THECNICAL CHARACTERISTICS			
3					
4		Box protection degrre	:	IP 67	
5		Material	:	ALUN	IINIUM PRESS. DIE-CASTING
6		Colour	:	BLAC	K
7		Electrical execution	:	WATI	ERPROOF
8		Electrical connection	:	N°3 -	3/4" NPT-F
9					
10		COMPLETE WITH THE FOLLOWING			
11		COMPONENTS			
12					
13	1.	POSITION INDICATOR			
14		Two colours	:	RED ·	· CLOSED / GREEN - OPEN
15		Material	:	POLI	CARBONATE
16		Mechanically integral with			
17		the shaft of the valve			
18					
19	2.	ACTUATING CAMS			
20		With rotation angles from 0 to 90°			
21					
22	3.	TERMINAL BOARD			
23		Prewired with N°9 terminals of 2,5 mm2			
24		Colour	:	STAN	IDARD
25					
26	4.	MICROSWITCHES		ITEM	: ZSHL 33.1 o/c
27		Will have to be installed in the box			
28		and connected to the			
29		terminal board N°2	:		(IMITY SWITCH
30		Manufacturer	:		ERL + FUCHS
31		Model	:		l - 12GM - 40Z0 (with led)
32		Contact Rating	:	0,1A ·	· 24 V d.c.
33		Electrical certification	:		
34					
35	5.	FIXING BRACKET OF THE BOX			
36		COMPLETE OF THE BOLTS FOR			
37		FIXING NAMUR MECHANICAL			
38		CONNECTION			
39		Material	:	STAI	NLESS STEEL
40					
41					
Note	:			PL	IRCHASING DATA
			Manufacturer	:	AUTOMAX
			Model	:	WDC0217201QQ/BT
			Supplier	:	ALFA VALV.
			Order n°	:	291515



JOB:

DWG. (1E35-80-011) **INSTRUMENT SPECIFICATION** 2C57-80-015 CUSTOMER: SH. 27 PLANT: **SULPHUREX** REV. 2

Computer code: 2C57.KVSSE.xls

	SERVO - CONTROLLED	SHUT-C	OFF VALVE	S		
1	Caratteristiche generali - General characterist	ics				
2	Sigla della valvola - <i>Valve tag</i>	:	LV 25.1			
3	Linea installazione valvola - Valve installation line	:	1 1/2"-ZF-2	25002-	211	
4	Tipo valvola - Valve type	:	Sfera - Ba			
5	Valvola a tenuta perfetta completa di attuatore pn	eumatic			tto con ritorno a	
6	molla per assicurare la posizione di emergenza in					
7	(Deve essere prevista anche la possibilità di azio).		
8	Valve with tight shut-off complete with single actir			•	d spring return to	
9	assure the emergency position in case of air failu	• .			, 0	
10	(The possibility of a manual control has to be pro					
11	În mancanza di aria (emergenza) la valvola è	:	☐ Ape	rta	✓ Chiusa	
12	When air is failing (emergency) the valve is		O _I	oen	Closed	
13	Condizioni di esercizio - Operating conditions	;	•			
14	Fluido di processo - Process fluid	:	SULPHUR			
15	Pressione di esercizio - Operating pressure	:				
16	Temperatura di esercizio - Operating temperature) :	151 ℃			
17	Materiali - <i>Material</i> s		S 121			
18	Corpo - Body	:	ASTM A10)5		
19	Sfera - Ball	:	AISI 304			
20	Anello di tenuta - Seal ring	:	R-PTFE			
21	Ç					
22	Dimensioni - Size and rating					
23	Diametro nominale - Nominal diameter	:	DN 1 1/2"			
24	Attacchi - Connections	:	ANSI 150	RF		
25	Accessori - Accessoires					
26	N°2 Finecorsa montati sull'operatore pneumatico	per seg	gnalare le p	osizior	ni aperta e chiusa	
27	della valvola.				•	
28	N°2 Limit switches mounted on pneumatic operat	or to si	gnal the po	sitions	open-closed of	
29	valve.				•	
30	Costruttore - Manufacturer	:	See sheet	29		
31	Modello - <i>Model</i>	:	See sheet	29		
32	Attuatore - Pneumatic operator					
33	Pressione comando - Control pressure	:	4 - 8 Bar			
34	Connessioni pneumtiche	:	1/4" NPT -	F(NA	AMUR)	
35	Pneumatic connections					
36	Costruttore - Manufacturer	:	AUTOMAX	(
37	Modello - <i>Model</i>	:	GT 92 K4			
38						
39	Tenuta perfetta - Perfect seal	:	YES			
40						
Note:			PU	RCHA	SING DATA	
1) Valv	e complete of solenoid valve, mounted on pneumatic					
ope	rator , for technical date see sheet 28	Manufact	urer :	ALFA	A VALVOLE	
2) Valv	e complete with junction box , mounted on pneumatic	Model	:	A11N	1	
ope	rator , for technical date see sheet 29	Supplier	:	ALFA	A VALVOLE	
		Order n°	:	2913	23	



INICTE	UMENT SPECIFICATION	DWG.	(1E35-80-011)			
INSTR	OWIENT SPECIFICATION		2C57-80-015			
CUSTOMER:		SH.	28			
PLANT:	SULPHUREX	REV.	2			
JOB:	2C57 (1E35)	Computer	Computer code: 2C57.KVSSE.xls			

				VALVOLA A	SUL	ENOIDE - 30	JLENOID	VALV	E				
1	Tipo					2 Vie		3 Vie		4 Vie		5 V	ie
	Туре		SING	LE SOLENOID		2 Way	1171	3 Way		4 Way		5 V	
	Alimentaz	ione Eletti			1	Classificazione	area		1				,
	Power su	pply		110 V - 50 Hz		Area classifica	tion \	WATER	PROOF				
	Valvola a	2 vie - in r		energia elettrica		L		Apre		Chiude			
	2 way val	ve - on ele						Open		Closed	<u> </u>		
4	Valvola a			e energizzato		Via		Aperta		Chiusa		Sfia	
	3/4/5 vie			energized		Way		Open	P-E	Closed		Ver	
	Valve at			e energizzato		Via	/	Aperta		Chiusa		Sfia	
	3/4/5 way	S	Solenoid	energized		Way	(Öpen		Closed	<u> </u>	Ver	nt
	Sigla					LY	25.1						
	Tag												_
6	Servizio					AIR TO	LV 25.1					S	
	Service	E1:2-				1 3	•					\perp	-
7		Fluido				INSTRUM	MENT AIR				_		_
8		Fluid	corrects:								P	2	E
O		Composti corrosivi Corrosive agents						L	⊣ ∣				
9				norm / mar:									
Э	0	Temperat		norm./max		30 ℃						S	
10	es: ata	Pressione	g temperat										٦
10	0 c 2 d		essione norm. / max perating pressure norm. / max				7 bar				Р	3	A
11	Dati di processo <i>Process data</i>	Peso spe		HOIIII. / HIdX								3	^
' '	<u>i</u> di 00	Specific g										Ь	_
12	Dat P	Viscosità	,,									Е	
	_	Viscosity				0,02	2 Cp						
13		Portata										S	
		Flow rate										\top	
14		Tenuta pe				VI	ES						
		Tight shu				YI	_3				P		Α
15		CV calcol		CV scelto								4	
		Calculate		Selected CV							E		В
16		Dimens.		Dimens. sede									
17		Body size	e oni e ratin	Port size									
17			oni e ratin Id connect	•		1/4" NPT-F (NAMUR)						S	- 1
18		Materiale	corno	uono		, ,						3	
10	8 >	Body mat				MFR. STD.					E	╻┌┴	7
19	Corpo Body	Materiale									1	A	
	O M	Seat mate				MFR.	STD.				P	5	^
20		Materiale										Ιĭ	В
		Packing r				MFR.	STD.				EI	3	
21		Azionata					10					\vdash	_
		Pilot oper				N	Ю					S	
22		Riarmo m		Operatore manual	Э	NO	VEC						_
	Access.	Manual re		Manual operator		NO	YES				P		_ET
23		Attacco e				1/2" (GAS-F				Α		ITLET
			connectio	on		1/2	J/10-1				В		TLET
24		Tipo di contenitore				IP	65					VE	
		Housing type		"						A VE			
25		Tropicaliz				YI	ES				E	3 VE	NI
		Tropicaliz	ation										
Note:							P	URCH	ASING	DATA			
						Manufacturer		L.G.M.	ENGINE	ERING			
								R2518					
						Model				_			
						Supplier			/ALVOL	E			
						Order n°	: 2	291323					



INST	RUMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER	₹:	SH.	29
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

0.00				
2		THECNICAL CHARACTERISTICS		
3				
4		Box protection degrre	:	IP 66
5		Material	:	ALUMINIUM PRESS. DIE-CASTING
6		Colour	:	BLACK
7		Electrical execution	:	WATERPROOF
8		Electrical connection	:	N°3 - 3/4" GAS-F
9				
10		COMPLETE WITH THE FOLLOWING		
11		COMPONENTS		
12				
13	1.	POSITION INDICATOR		
14		Two colours	:	RED - CLOSED / GREEN - OPEN
15		Material	:	POLICARBONATE
16		Mechanically integral with		
17		the shaft of the valve		
18				
19	2.	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21				
22	3.	TERMINAL BOARD		
23		Prewired with N°9 terminals of 2,5 mm2		
24		Colour	:	STANDARD
25				
26	4.	MICROSWITCHES		ITEM: ZSHL 25.4 o/c
27		Will have to be installed in the box		
28		and connected to the		
29		terminal board N°2	:	MECHANICAL SWITCHES
30		Manufacturer	:	SIEMENS
31		Model	:	3SE02801C
32		Contact Rating	:	0,1A - 24 V d.c.
33		Electrical certification	:	
34				
35	5.	FIXING BRACKET OF THE BOX		
36		COMPLETE OF THE BOLTS FOR		
37		FIXING NAMUR MECHANICAL		
38		CONNECTION		
39		Material	:	STAINLESS STEEL
40				
41				
Note	:			PURCHASING DATA
			Manufacturer	: SIMENS
			Model	: 3SE02801C
			Supplier	: ALFA VALVOLE
			Order n°	: 291323



| DWG. (1E35-80-011) | 2C57-80-015 | CUSTOMER: SILPHUREX | REV. 2 | JOB: 2C57 (1E35) | Computer code: 2C57.KVSSE.xls

	SERVO - CONTROLLED	SHUT-C	OFF VALVES						
1	Caratteristiche generali - General characterist	ics							
2	Sigla della valvola - Valve tag	:	KV 16.17						
3	Linea installazione valvola - Valve installation line	:	1/2"-AS-16123-215						
4	Tipo valvola - Valve type	:	Sfera - Ball						
5	Valvola a tenuta perfetta completa di attuatore pn								
6	molla per assicurare la posizione di emergenza in mancanza d'aria.								
7	(Deve essere prevista anche la possibilità di azionamento manuale).								
8	Valve with tight shut-off complete with single acting pneumatic actuator and spring return to								
9	assure the emergency position in case of air failure.								
10	(The possibility of a manual control has to be provided).								
11	In mancanza di aria (emergenza) la valvola è		✓ Aperta ☐ Chiusa						
12	When air is failing (emergency) the valve is	•	Open Closed						
13	Condizioni di esercizio - Operating conditions	:	Gp6// 0.000u						
14	Fluido di processo - <i>Process fluid</i>		AIR						
15	Pressione di esercizio - Operating pressure	÷.							
16	Temperatura di esercizio - Operating temperature	. ز	35 ℃						
17	Materiali - <i>Materials</i>		S 121						
18	Corpo - Body		AISI 304						
19	Sfera - Ball	:	AISI 304						
20	Anello di tenuta - <i>Seal ring</i>	:	R-PTFE						
21	7 thone of toriotal God/7mg	•							
22	Dimensioni - Size and rating								
23	Diametro nominale - Nominal diameter		DN 1/2"						
24	Attacchi - Connections	:	ANSI 150 RF						
25	Accessori - Accessoires	•	7.1101 100 111						
26	N°2 Finecorsa montati sull'operatore pneumatico pe r segnalare le posizioni aperta e chiusa								
27	della valvola.	po 1 00	gridiare to pooletorii aporta e erilada						
28	N°2 Limit switches mounted on pneumatic operat	or to si	anal the positions open-closed of						
29	valve.	0/ 10 0/	griar the positions open sleeds of						
30	Costruttore - <i>Manufacturer</i>		See sheet 32						
31	Modello - <i>Model</i>	÷.	See sheet 32						
32	Attuatore - Pneumatic operator	•	000 011001 02						
33	Pressione comando - Control pressure		4 - 8 Bar						
34	Connessioni pneumtiche	:	1/4" NPT - F (NAMUR)						
35	Pneumatic connections	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
36	Costruttore - Manufacturer	:	AUTOMAX						
37	Modello - <i>Model</i>	:	GT 52 K4						
38									
39	Tenuta perfetta - Perfect seal	:	YES						
40									
-									
Note	:		PURCHASING DATA						
	e complete of solenoid valve, mounted on pneumatic								
,	·	Manufact	urer : ALFA VALVOLE						
•	·	Model	: A10N						
		Supplier	: ALFA VALVOLE						
•		Order n°	: 291323						



INIC	TRUMENT SPECIFICATION	DWG.	(1E35-80-011)
INS	TRUMENT SPECIFICATION		2C57-80-015
CUSTOME	R:	SH.	31
PLANT:	SULPHUREX	REV.	2
JOB.	2C57 (1F35)	Computer	code: 2C57 KVSSF xls

				VALVOLA A	SUL	ENOIDE - 30	JLENOIL	JVAL	E				
1	Tipo					2 Vie		3 Vie		4 Vie		5 V	ie
	Туре		SING	LE SOLENOID	\Box	2 Way	1 1 🗸 1	3 Way		4 Way		5 N	
		Alimentazione Elettrica Power supply 110 V - 50 Hz			Classificazione	Classificazione area						-	
					Area classifica		WATER	PROOF					
				energia elettrica				Apre		Chiude			
	2 way valve - on electric failure					15.41		Open		Closed			
4	Valvola a Solenoide energizzato			Via		Aperta		Chiusa		Sfia			
	3/4/5 vie			energized		Way		Open	P-E	Closed		Ven	
	Valve at			e energizzato				Aperta Open	ta Chiusa			Sfiato	
5	3/4/5 way Sigla	ა	Soieriola	energized		Way Oper				Closed	1	Ven	l
	Sigia Tag					KY 16.17							
6	Servizio											S	1
Ĭ	Service					AIR TO	AIR TO KV 16.17					 	_
7	20,7100	Fluido									-	Γ	7
		Fluid				INSTRUM	IENT AIR	!			Р	2	ΙE
8		Composti	corrosivi									-	-
		Corrosive				l N	О					-	-
9	_	Temperat		norm. / max		00 ~						S	1
	sso a		g temperat			30 ℃						Т	
10	Dati di processo Process data	Pressione		norm. / max			76					广	1
	oro SS (ting pressure norm. / max			7 bar				P	3	Α	
11	ie S	Peso spe											
	rti (?70	Specific g	gravity	vity									
12	Da 1	Viscosità Viscosity Portata				0.00	0,02 Cp					Е	
4.5					0,02 Cp							_	
13											S		
14		Flow rate										\vdash	ا ٦
14		Tenuta perfetta Tight shut-off			YES					Р			
15		CV calcol		CV scelto								4	Α
13		Calculate		Selected CV							Е		В
16		Dimens. o		Dimens. sede									
		Body size		Port size									_
17			oni e ratin	g		1/4" NPT-F (NAMUR)							
		Rating an	nd connect	tions								S	
18	0 .	Materiale				MED	STD					\Box	
	Corpo Body	Body mat				MFR. STD.					E	١ -	
19	္ဟ မ	Materiale sede			MFR. STD.			· <u> </u>				Α	
		Seat mate				WIFR. STD.					P	5	_
20		Materiale				MFR. STD.							В
04		Packing r									E	⁵└┬	
21		Azionata da pilota Pilot operated Riarmo manuale Operatore manuale			NO							- 1	
22											S		
22	Access.			Manual operator	5	NO	YES				Р	INII	.ET
23	A00033.	Manual reset Manual operator Attacco elettrico				<u> </u>				A		TLET	
		Electrical connection		1/2" GAS-F					B		TLET		
24		Tipo di contenitore								VEI			
- 1		Housing type		IP 65						VEI			
25	Tropicalizzazione		7/50						3 VEI				
	Tropicalization				YES								
Note:						F	PURCH	ASING	DATA	I			
							5.3011		-//				
						Manufacturer : LG.M. ENGINEERING Model : R2518							
						Supplier	•	ALFA '	VALVOL	E			
						Order n° : 291323							
						Jidei II	•	201020					



INSTR	UMENT SPECIFICATION	DWG.	(1E35-80-011) 2C57-80-015
CUSTOMER:		SH.	32
PLANT:	SULPHUREX	REV.	2
JOB:	2C57 (1E35)	Computer	code: 2C57.KVSSE.xls

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

				,
0.00				
2		THECNICAL CHARACTERISTICS		
3		Decree to the decree		ID 00
4		Box protection degrre	:	IP 66
5		Material	:	ALUMINIUM PRESS. DIE-CASTING
6		Colour	:	BLACK
7		Electrical execution	:	WATERPROOF
8		Electrical connection	:	N°3 - 3/4" GAS-F
9		COMPLETE WITH THE FOLLOWING		
10		COMPLETE WITH THE FOLLOWING		
11		COMPONENTS		
12		DOCITION INDICATOR		
13	1.	POSITION INDICATOR	_	DED CLOSED / ODEEN ODEN
14		Two colours	:	RED - CLOSED / GREEN - OPEN
15		Material	:	POLICARBONATE
16		Mechanically integral with		
17		the shaft of the valve		
18	•	ACTUATING CAME		
19	۷.	ACTUATING CAMS		
20		With rotation angles from 0 to 90°		
21	3.	TERMINAL BOARD		
22	3.	TERMINAL BOARD Prewired with N°9 terminals of 2,5 mm2		
23 24		Colour		STANDARD
25		Coloui	•	STANDARD
26	1	MICROSWITCHES		ITEM: ZSHL 16.17 o/c
27	7.	Will have to be installed in the box		11 EW . 2311E 10.17 0/C
28		and connected to the		
29		terminal board N°2		MECHANICAL SWITCHES
30		Manufacturer	•	SIEMENS
31		Model	•	3SE02801C
32		Contact Rating	•	0,1A - 24 V d.c.
33		Electrical certification	:	5,17t 24 t d.5t
34			•	
35	5.	FIXING BRACKET OF THE BOX		
36	-	COMPLETE OF THE BOLTS FOR		
37		FIXING NAMUR MECHANICAL		
38		CONNECTION		
39		Material	:	STAINLESS STEEL
40				
41				
Note	:			PURCHASING DATA
			Manufacturer	: SIMENS
			Model	: 3SE02801C
			Supplier	: ALFA VALVOLE
			Order n°	: 291323