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SINGLE EFFECT ON-OFF BUTTERFLY VALVES

Valvole on-off a farfalla a singolo effetto

REVISION INDEX - INDICE DELLE REVISIONI

		,,							g						g==================					,			,	,
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N.B.-LA VALOLA DEVE ESSERE PREASSEMBLATA CON TUTTI GLI ACCESSORI

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																									
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3 2	ISSUE FOR ORDER			EMONTE				17/12/0
1	FOR ORDER n° 241405	S.T.I.		Galimberti	KMI	G.Ruzzenenti	NV	07/2004
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MILANO (ITALIA)

INSTRUMENT SPECIFICATION

(1E35.80.013

2C57.80.012 DWG.

SH.

CUSTOMER: PLANT:

SULPHUREX JOB:

2 C 57

REV. Computer code: 2C57-FSES.xls

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SERVO - CONTROLLED SHUT-OFF VALVES

1	Caratteristiche generali - General characteristic	S			
2	Sigla della valvola - <i>Valve tag</i>	:	KV 16.1		
3	Linea installazione valvola - Valve installation line		12"-CS-16013-215		
4	Tipo valvola - Valve type	:	Farfalla (Wafer) - I	Butterfly (Wafer)	
5	Valvola a tenuta perfetta completa di attuatore pne	umatio	o a semplice effetto	con ritorno a	
6	molla per assicurare la posizione di emergenza in	manca	nza d'aria.		
7	(Deve essere prevista anche la possibilità di azion	ament	o manuale).		
8	Valve with tight shut-off complete with single acting	g pneu	matic actuator and s	pring return to	
9	assure the emergency position in case of air failure	€.			
10	(The possibility of a manual control has to be prov	rided).			
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	:	SO3		
15	Pressione di esercizio - Operating pressure	:	Norm= 0,36 barg /	Max= 0,9 barg	
16	Temperatura di esercizio - Operating temperature	:	50 ° C	,	
17	Materiali - Materials				
18	Corpo - <i>Body</i>	:	AISI 316		
19	Farfalla - <i>Butterfly</i>	:	AISI 316		
20	Anello di tenuta - Seal ring	:	UNS S31803 (DUF	PLEX)+ PTFE *	
21	Dimensioni - Size and rating		,	,	
22	Diametro nominale - Nominal diameter	:	DN -12"		
23	Attacchi - Connections	:	ANSI- 150# RF		
24	Accessori - Accessoires				
25	N° 2 Finecorsa montati sull'operatore pneumatico	per se	gnalare le posizioni :	aperta e chiusa	
26	della valvola.		J		
27	N° 2 Limit switches mounted on pneumatic operate	or to si	anal the positions of	open-closed of	
28	valve.		9		
29	Limit switch mounted on junction box type:		SEE SHEET 🎗		
30					
31	Tipo contatto - Contacts type		SEE SHEET 🕺		
32	Campo - Rating	:	24 V d.c.		
33	Sigla - <i>Tag</i>		ZS 16.1 o/c		
34	Attuatore - Pneumatic operator				
35	Pressione comando - Control pressure	:	4 Barg min 7 Bai	rg max	
36	, 1000, 2110 CO. 1101		· · 3 · · · · · · · · ·	9	
	Tempo chiusura: Max 3 sec.				
37	***************************************		CM 200 CD 00	ALITOR#AV	
38	Modello - <i>Model</i>	•	SN- 300 SR 09	AUTOMAX	
39	SEE NOTE 1	siala D	UDUEVADA TEELA	ONI tra Lamalia	
40	*) ANELLO METALLICO LAMELLARE (Inox Spec	Jiaie D	UPLEX) PIU TEPLO	JN IIA LAMENE.	
Note :			PURCHAS	ING DATA	
1) Valv	e complete of solenoid valve, mounted on pneumatic				
ope	rator, for technical data see sheet 3	Manufac	turer : VANES	SA	

Model

Supplier Order n° **SERIE - 30000**

тусо 291485

BALLESTRA MILANO (ITALIA)

INSTRUMENT SPECIFICATION

SULPHUREX

DWG. 2C57.80.012

REV.

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CUSTOMER:

PLANT:

JOB:

VALVOLA A SOLENOIDE COLENOID VALVE

				VALVO	JLA A SC	ノレヒハ	IOIDE - SO	JLENOI	U VAL	VE:					
1	Tipo		-				2 Vie	T (7)	3 Vie		4 Vie		******	5 Vie)
	Type		SING	LE SOLE	NOID		2 Way		3 Way		4 Way			5 Wa	
2		ione Elettr	ica		erite e en et en		assificazione			men men fi serane er same eran se same e	<u>.</u>	T			
	Power su		A. C. Sedvers and C. C. Account and C. C.	110 V - 5		A	rea classifica	tion		RPROOF					
3				energia ele	ttrica				Apre		Chiude				
		/e - on ele	ctric failure						Open		Closed	<u> </u>			
4	Valvola a			e energizza	to	Vi]	Aperta		Chiusa			Sfiat	
	3/4/5 vie		Solenoid	energized			'ay	P - A	Open	P-E	Closed			Vent	
	Valve at			e disenergiz		Vi			Aperta		Chiusa			Sfiat	
	3/4/5 way	S	Solenoid	disenergize	9 d	W	/ay	A-E	Open	P-A	Closed	l,		Vent	
5	Sigla <i>Tag</i>						I/V	16.1				non-market			
6	Servizio						N I	10.1							ı
U	Service						AIR TO	KV 16.1				1	ı	<u>_</u> S_	İ
7	OCI VICE	Fluido					AIRTO	10.1					1		1
,		Fluid					INSTRUM	MENT AL	R				Р	2	Е
8		Composti	corrosivi		······································		1110111101	VIC-14) / \I					۱ ۱	-	_
		Corrosive					N	10						-	ı
9		Temperat		norm	. / max			1					1	⊪S.	I
_	os E		temperati		ı. / max		30 °C						1	mark Edition	ı
10	Dati di processo Process data	Pressione			. / max								1		1
	roc s c	Operating	g pressure		ı. / max			7 ba	rg				Р	3	Α
11	li p	Peso spe		***************************************		<u>-</u>	CER & Markett State of Lord and an Edit of Alberta								
	roc ti	Specific g	gravity												•
12	Da	Viscosità												Ε	
		Viscosity					0,0	2 Cp							
13		Portata												S	
		Flow rate													
14		Tenuta pe										-			١.
15		Tight shu		CV scelto			Υ	ES					Ρ	4	Α .
15		Calculate		Selected	21/	And Address of						j	_	4	_B
16		Dimens.		Dimens. s	and the second s		1/2"	·					E		В
10		Body size	,	Port size	eue		1/2								ŀ
17			ioni e ratin					<u> </u>							
''			nd connect				1/2" '	NPT-F						S	1
18		Materiale												SERVE SAFE	j
	Corpo Body	Body mai					MFR	. STD.					EA		1
19	So So	Materiale													Α
	~ _	Seat mat					MFR	. STD.					Р	5	
20		Materiale	baderna		***************************************										В
		Packing I					MFR	. STD.					EΒ		1
21		Azionata				T									-
	<u></u>	Pilot oper	rated				Ŋ	10						· S]
22	t	Riarmo n		Operatore			NG	\					_		
	Access.	Manual re		Manual o _l	perator		NO	YE	১		.,		P	INL	
23	1	Attacco e		ın.			1/2"	NPT F					A		FLET
24		1	<i>connectio</i> ontenitore	71 f			1/2	INF I F					B E	VEN	FLET
24		Housing				!	IF	65						VEN	
25		Tropicaliz												VEN	
23		Tropicaliz					N	10					LU	V L I V	
Note	<u> </u>	Troprodita	Lation			-	<u>'</u>		DUDC	LIACINIC	DATA				
Note						<u> </u>			FURL	HASING	DAIA				
						IN	lanufacturer	:	JOUC	OMATIC					
							lodel		SCES	07B075U					
								•		01 001 00					
						i	upplier	:	TYCO	100					
L						C	order n°	;	291.	485					



INSTRUMENT SPECIFICATION	(183	5.80. c
	DWG.	2C57.80.01

CUSTOMER:

PLANT: JOB:

SULPHUREX (2C57) 1E35

SH. REV.

Computer code: 2C57-FSES.xls

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SERVA CONTROLLED SHIT-DEE VALVES

	SERVO - CONTROLLED SI	HU I -	OFF VALVES
1	Caratteristiche generali - General characteristic	s	
2	Sigla della valvola - Valve tag Linea installazione valvola - Valve installation line		KV 11. 18
3	Linea installazione valvola - Valve installation line		M"- AH- MOO9-209
4	Tipo valvola - Valve type		Farfalla (Wafer) - Butterfly (Wafer)
5	Valvola a tenuta perfetta completa di attuatore pne	umat	
6	molla per assicurare la posizione di emergenza in		•
7	(Deve essere prevista anche la possibilità di azion		
8	Valve with tight shut-off complete with single acting		
9	assure the emergency position in case of air failure	-	amade detacter and opining return to
10	(The possibility of a manual control has to be prov)
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		Open Cloded
14	Fluido di processo - <i>Process fluid</i>		ΔIR
15	Pressione di esercizio - Operating pressure	\ :	AIR Norm= 0,035 HAX=0,57
16	Temperatura di esercizio - Operating temperature		
17	Materiali - Materials	. 5	<i>6</i> /160 ° ^C
18	Corpo - Body		CARBON STEEL
19	Farfalla - <i>Butterfly</i>	:	CARBON STEEL
	Anello di tenuta - Seal ring	:	UNSS-31803 + GRAPHITE
20	Dimensioni - Size and rating	•	UN33-31003 + GRAFIITE
21	Diametro nominale - Nominal diameter		DN -14"
22	Attacchi - Connections	:	ANSI- 150# RF
23		•	ANSI- 130# KF
24	Accessori - Accessoires	nor o	ognalara la nacizioni anorta a chiusa
25	N° 2 Finecorsa montati sull'operatore pneumatico	per s	egnalare le posizioni aperta e ciliusa
26	della valvola.	>r to .	signal the positions appropriated of
27	N° 2 Limit switches mounted on pneumatic operato	א נט נ	signal the positions open-closed of
28	valve.		SEE SHEET &
29	Limit switch mounted on junction box type:		SEE SHEET ()
30	Tine contatte. Contacte time		SEE SHEET &
31	Tipo contatto - Contacts type	•	~
32	Campo - Rating	•	24 V d.c. ZS 11. 18 0/C
33	Sigla - Tag	•	25 11. 10 010
34	Attuatore - Pneumatic operator		4 Dans min 7 Dans may
35	Pressione comando - Control pressure	•	4 Barg min 7 Barg max
36			
37			DM 040 OD 00 AUTOMAY
38	Modello - <i>Model</i>	:	RM 310 SR 06 AUTOMAX
39	SEE NOTE 1		
40			
Note :	<u> </u>		PURCHASING DATA
1) Valve	e complete of solenoid valve, mounted on pneumatic		

operator, for technical data see sheet 5 VANESSA Manufacturer **SERIE - 30000** Model 1 TYCO 291485 Supplier Order n°



INSTRUMENT SPECIFICATION

(1835.80.013)

CUSTOMER: SH. 5

PLANT: SULPHUREX
JOB: (2C57) 1E35

REV.
Computer code: 2C57-FSES.xls

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				VALVOLA A	SOL	ENOIDE - S	OLENOI	D VAL	/E					
1	Tipo					2 Vie	<u> </u>	3 Vie		4 Vie	П		Vie	=
	Туре			ILE SOLENOID		2 Way		3 Way		4 Way		5	Way	
2	Alimentaz		rica	43037 5033		Classificazion		1444755	DD005					
	Power su			110 V - 50 Hz		Area classific	ation		PROOF	Oblinite				
3				energia elettrica				Apre <i>Open</i>		Chiude Closed				
4	<i>2 way val</i> Valvola a	ve - on eie		e energizzato		Via		Aperta		Chiusa		ς	fiato	
4	3/4/5 vie			energized		Way	P-A	Open	P-E	Closed		_	ent	
	Valve at			e disenergizzato		Via	1 - 7	Aperta		Chiusa			fiato	
	3/4/5 way	s	Solenoid	disenergized		Way	A-E	Open	P-A	Closed			ent	
5	Sigla		1											
	Tag					KY	11.18						o 1	
6	Servizio Service					AIR TO) KV 11.1	Q					S	
7	Service	Fluido				701710	/ I (V I I I I I	0				Г	┪	
		Fluid				INSTRU	MENT AI	R				P	2	Ε
8		Compost					NO					L		
9	, i	Corrosive Tempera		norm. / max			10						S	
J	<u>چ</u> ي		iura g temperat			30 °C							Ť	
10	ata	Pression	e e	norm. / max		- 00 0						Г	┺.	
	20 S		g pressure	norm. / max		4 barg	7 ba	rg				Р	3	Α
11	i p	Peso spe	cifico									L		
	Dati di processo Process data	Specific of											_	
12	Da F	Viscosità				0.0	2 Cp						E	
13		Viscosity Portata				0,0	12 Cp						5	
13		Flow rate	•											
14		Tenuta p				-		· ·				Г	╆┪.	
		Tight shu				Y	'ES					P	1	Α
15		CV calco		CV scelto								- 1	4	
40		Calculate		Selected CV		1/2"	-					E	- 1	В
16		Dimens. Body size		Dimens. sede Port size		1/2						L_		
17			ioni e ratin											
			nd connec			1/2'	NPT-F						S	
18		Materiale										_	匚	
	Corpo Body	Body ma				MFF	R. STD.				E	A		
19	ပြိမ်	Materiale				MEE	R. STD.					Р	5	Α
20		Seat mat Materiale		·		IVIE	. SID.					۲	٦	В
20		Packing				MFF	R. STD.				E	ЕВ		_
21	1	Azionata				1337						_	Т'	
		Pilot ope	rated				NO						Ś	
22	Access.	Riarmo n		Operatore manual	e								N.II	_
00	Access.	Manual r		Manual operator		NO	YE	3					NLE ⁻	
23		Attacco e	elettrico I connectio	n On		1/2"	NPT - F						OUTL	
24	-		ontenitore	211		1/2							ENT	
-		Housing				11	² 65				E	EA V	/ENT	
25	1	Tropicaliz	zzazione				NO.				- 1	EB ∨	/ENT	
<u> </u>	L	Tropicali	zation			1	NO	DUDC:	LACINIC	DATA				
Note	:							PURC	HASING	DATA				
						Manufacturer Model Supplier	: : : : :	JOUCO SCB-30 TYCO 284 2	7B075U					
						Order n°	:_	4176	ros					_

		INSTRUM	ENT SPECIFI	CATION	(1E35.80.013)
	4				DWG. 2C57.80.012
		CUSTOMER:			SH.
1	BALLESTRA S.D.A.	—	LPHUREX		REV.
-	MILANO (ITALIA)		257) 1E35	·	Computer code: 2C57-FSES.xls
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	erve the ownership under the law of this do				
		SERVO - CONTI	ROLLED SHUT-	OFF VALVES	
	0 4 : 0 1				
1	Sigla della valvola	enerali - Ge <i>neral chi</i>	aracteristics	KV 11 19	
2		valvola - <i>Valve insta</i>	Ilation line :	14h A 11	11007-209
3	Tipo valvola - Val			74 - AH-	er) - Butterfly (Wafer)
4		erfetta completa di at	tuatoro ppoumat		
5		re la posizione di em			
7	•	rista anche la possib	-	· ·	
8	•	ut-off complete with s		· ·	and spring return to
9	•	ncy position in case	•	arrano aotaator	and spinig retain to
10		a manual control ha).	
11	• •	a (emergenza) la va		Aperta	Chiusa
12		(emergency) the va		Open	Closed
13	_	rcizio - <i>Operating c</i>			
14	Fluido di processo		. :	AIR	
15	Pressione di eserc	izio - Operating pres	sure (5219) :	Norm= O_{i}^{C}	035 HAX = 0,57
16	Temperatura di es	ercizioO <i>perating te</i>	mperature 😗 :	30 / 160	035 HAX= 0,57
17	Materiali - Materia	ıls		0-1	
18	Corpo - Body		:	CARBON ST	
19	Farfalla - Butterfly		:	CARBON ST	
20	Anello di tenuta - S	•	:	UNSS-31803	+ GRAPHITE
21	Dimensioni - Size	-			
22		e - Nominal diameter	:	DN -14"	~=
23	Attacchi - Connect		:	ANSI- 150#	KF .
24	Accessori - Acces				-iani anauta a ahiyaa
25		ntati suli operatore p	neumatico per si	egnalare le posi.	zioni aperta e chiusa
26	della valvola.	s mounted on pneum	atic aparator to	sianal tha nasiti	one open-closed of
27	valve.	s mounted on pheam	alic operator to s	signal the position	ons open-closed of
28 29		ed on junction box ty	me.	SEE SHEET	R
30	Limit Switch mount	ed on junction box ty	pe.	OLL OFFILL	O
31	Tipo contatto - <i>Col</i>	ntacts type		SEE SHEET	8
32	Campo - Rating	naoto typo	•	24 V d.c	ſ
33	Sigla - Tag		:	ZS 11.	0/6
34	Attuatore - Pneur	natic operator			•
35		lo - Control pressure	:	4 Barg min	7 Barg max
36		•		-	-
37					
38	Modello - <i>Model</i>		:	RM 310 SR 0	6 AUTOMAX
39	SEE NOTE 1				
40					

Note:		PU	RCHASING DATA	
1) Valve complete of solenoid valve, mounted on pneumat operator, for technical data see sheet	Manufacturer Model Supplier	:	VANESSA SERIE - 30000 TYCO	
	Order n°	:	291485	i

*
BALLESTRA S.P.A
MILANO (ITALIA)

INST	TRUMENT SPECIFICATION	(1835,80.013)
		DWG. 2C57.80.012
CUSTOME	₹:	SH.
PLANT:	SULPHUREX	REV.
JOB:	(2C57) 1E35	Computer code: 2C57-FSES.xls

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VALVOLA A SOLENOIDE - SOLENOID VALVE

				***************************************	· ·									
1	Tipo				Th	2 Vie	V	3 Vie	ТП	4 Vie	П		5 Vie	;
	Type			LE SOLENOID		2 Way		3 Way	, 🗀	4 Way	ַ		5 Wa	ay
2		limentazione Elettrica			Classificazione area									
	Power supply 110 V - 50 Hz					Area classific	ation		R PROOF					
3	Valvola a 2 vie - in mancanza energia elettrica 2 way valve - on electric failure							Apre		Chiude				
					1. #		Open		Closed	-		06.1		
4	Valvola a Solenoide energizzato					Via		Aperta		Chiusa			Sfiate	
	3/4/5 vie	Solenoid energized			Way P-A Open P-E Closed			Vent Sfiato						
	Valve at	_	Solenoide disenergizzato			Via		Aperta	P- A	Chiusa Closed		Vent		
5	3/4/5 ways Solenoid disenergized			Way	A-E	Open	P - A	Closed	1		veni			
٥	Sigla					KY 11.1 ଦ୍ୱି								
6	Tag Servizio					KIIII						ı	S	
١	Service				AIR TO KV 11.1 9						ı	Ť		
7	00/1/00	Fluido				7,11111	, , , , , , , , , , , , , , , , , , , ,		WATER TO THE TOTAL SECTION OF	,		i	╧	
		Fluid				INSTRUMENT AIR						Р	2	E
8		Composti	corrosivi											
		Corrosive agents				NO							' [
9		Temperat	tura	norm. / max									S	
	ssc a		temperat	ure norm./max		30 °C						,		
10	ati di processo Process data	Pressione		norm. / max										
	oro SS (Operating pressure norm. / max				4 barg	7 barg					Р	3	Α
11	Zi r	Peso spe					ļ							
	Dati c Pro	Specific g	gravity										_	
12	Da F	Viscosità				0.02 Cp							Е	
13		Viscosity Portata				0,02 Cp								.
13		Flow rate										S		
		Tenuta pe										Щ,	. 1	
14						YES						Р		A
15		Tight shut-off CV calcolato CV scelto										•	4	^
, 0			Calculated CV Sciento Selected CV									Ε		в
16		Dimens.		Dimens, sede		1/2"		-						
		Body size		Port size										'
17		Connessioni e rating												
		Rating and connections				1/2" NPT-F						S		
18	٥.	Materiale												
	Corpo Body	Body mat				MFR. STD.					EA			
19	S B	Materiale sede				MED OTO					_	_	Α	
		Seat mate				MFR. STD.						Р	5	_
20		Materiale baderna Packing material				MFR. STD.						EB		В
21						MFR. STD.						CD	<u> </u>	ı
41		Azionata da pilota Pilot operated				NO					1		- L	
22	Access.	Riarmo m		Operatore manual	e	140							_	ا .
	Access.	Manual re		Manual operator	-	NO	YE	s				Р	INL	ET
23		Attacco e				1	· -					A		LET
		Electrical connection			1/2"	NPT - F					В		LET	
24			ontenitore	****									VEN	
	Housing type					IP 65							VEN	
25		Tropicalizzazione								ΕB	VEN	IT		
		Tropicaliz	zation				NO						•	
Note: PURCHASING DATA														
Manufacturer : JOUCOMATIC Model : SCB-307B075U Supplier : TYCO														
						Order n°	•	781	485					
L						Joiuei II	•	2111	400					



INSTRUMENT SPECIFICATION

(1235,80.013

DWG. 2C57.80.01

CUSTOMER:

PLANT:

SULPHUREX

JOB: (2C57) 1E35

SH. REV.

Computer code: 2C57-FSES.xls

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BOX MICRO - SWITCHES FOR SIGNALING VALVE POSITION

1				
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 - NPT - F 1/2"
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		
27		Will have to be installed in the box		
28		and connected to the		DDOVIMITY CMITCH
29		terminal board N° 2	:	PROXIMITY SWITCH PEPPERL + FUCHS
30		Manufacturer	:	
31		Model	:	NCN4 - 12GM - 40Z0
32		Electrical certification	•	
33	_	FIXING BRACKET OF THE BOX		
34	່ ວ.	COMPLETE OF THE BOX		
35		FIXING NAMUR MECHANICAL		
36		CONNECTION		
37		Material		STAINLESS STEEL
38		iviatorial		OTAINELOG OTELL
39 40				
40	1	_ :		

Note:

PURCHASING DATA

MANUFACTURER:

MODEL:

SUPPLIER:

MODEL:

TYCO

ORDER N°

291485