SUNTESI: SHUT-OFF VALVE

This device separates the compressed air circuit from the main air supply. It is a three-way valve that relieves the downstream system in the closed position. This makes it useful for maintenance operations or when the air supply to a machine or piece of equipment needs to be shut off. Manual, pneumatic, electro-pneumatic and assisted electro-pneumatic control versions are available. The last version must be used if the inlet pressure is outside the electro-pneumatic valve operating range, so for particularly low or high pressures.

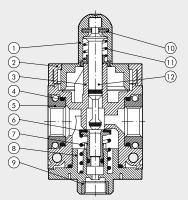
The version with manual control can be locked and you can enter up to two padlocks on size 1 and up to three on size 2 when the valve is in the closed position. As an alternative, a version with a single Ø7 hole is available for a single padlock. On the front and back there is a port (1/8" for size 1 and 1/4" size 2) that can be used with pressure gauges, pressure switches or as an additional air intake.



TECHNICAL DATA			V3V SY1	V3V SY2				
Threaded port		1/8″	1/4"	3/8"	3/8″	1/2"	3/4"	1"
Threaded discharge port			1/8″		,	1/	'4"	,
Type of control		Manual - pneu	matic - Elpn - Elp	n pilot-assisted	Manual - Pneun	natic - Cnomo el	pn - Cnomo e	pn pilot-assisted
Max inlet pressure for pneumatic and solenoid pilot-assisted versions	bar		15			1	3	
	MPa		1.5			1	.3	
	psi		217				88	
Inlet pressure for solenoid version	bar		3 - 10			3 -		
	MPa		0.3 - 1			0.3	•	
	psi		43 - 145				145	
Pilot pressure for pneumatic and solenoid pilot-assisted versions	bar		3 - 10			-	10	
	MPa		0.3 - 1			0.3	-	
	psi		43 - 145			43 -		
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	NI/min	800	1000	1100	2800	3000		3000
	scfm	28	35	39	99	106		106
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	NI/min	1100	1500	1600	3600	4000		4000
	scfm	39	53	57	127	141.5	141.5	
Exhaust flow rate at 6.3 bar (0.63 MPa; 91 psi)	NI/min		500				100	
	scfm		18			7	•	
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C		From -10 to +50)		From - I	0 to +50	
Padlockable knob		107	100	100	Included	440	4.45	400
Weight Fluid	9	197	192	183	476	449	445	433
				Compress	ed air or other i	nert gases		
Mounting position		In any position 1/8", front and rear 1/4", front and rear						
Additional air take-off, for pressure gauges or fittings Additional air take-off flow rate at 6.3 bar	NI/min	1/8", front and rear 500						
(0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	scfm							
Wall fixing screws	SCIIII	No. 2 M4 screws No. 2 M5 screws						
Bobbin capacity for electro-pneumatic version		12 VDC and 24 VDC = 2W; 24 VAC, 110 VAC and 220 VAC = 3.5 VA						
Manual control of electro-pneumatic versions		Bistable: horizontal = OFF, vertical = ON						
Manda control of electro-pheomatic versions				DISIGDIE. HOI	12011Iui – Oi 1, Vi	zilicui – Oi4		

COMPONENTS

- 1 Technopolymer knob
- ② Technopolymer hinge③ Technopolymer body
- 4 NBR o-ring gasket
- IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1'
- OT58 brass valve with NBR vulcanized gasket
- Stainless steel valve spring
- Technopolymer plug
- OT58 brass threaded insert
- Zinc-plated steel plate for knob locking (stainless steel for anti-corrosion version)
- Stainless steel spring stem recovery
- OT58 brass stem



V10 - Steel plate with Ø3.5 holes for locking with 2 padlocks (SY1) or 3 padlocks (SY2).





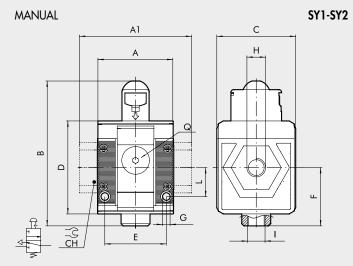


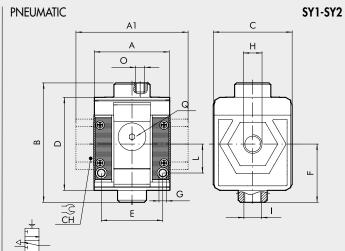
V11 - Steel plate with a single Ø7 hole for docking with a single padlock (compatible with most of the padlocks available from the trade with a Ø5mm arch).



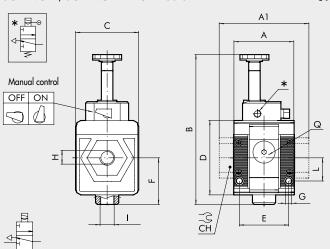


DIMENSIONS

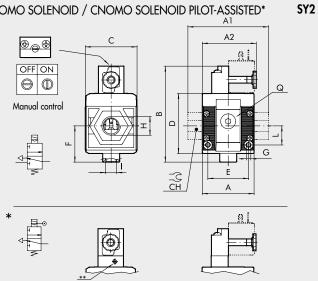




SOLENOID/SOLENOID PILOT-ASSISTED*



CNOMO SOLENOID / CNOMO SOLENOID PILOT-ASSISTED* $_{\rm A1}$





		MANUAL	P	NEUMATIC	SOLENOID/SOLENOID PILOT-ASSISTED	CNOMO SOLENOID/CNOMO SOLENOID PILOT-ASSISTED	
	SIZE 1	SIZE 2	SIZE 1	SIZE 2	SIZE 1	SIZE 2	
H (threaded port)	1/8" 1/4" 3/8"	3/8" 1/2" 3/4" 1"	1/8" 1/4" 3/8"	3/8" 1/2" 3/4" 1"	1/8" 1/4" 3/8"	3/8" 1/2" 3/4" 1"	
A	42	60.5	42	60.5	42	60.5	
A1	- - 44	- - 95 95	44	95 95	44	- - 95 95	
A2	-	-	-	-	-	65	
В	80	109	66	94	104	-	
Cnomo	-	-	-	-	-	113	
Cnomo pilot ass.	-	-	-	-	-	126	
C	44	61	44	61	44	61	
CH	-	- - 32 36	-	- - 32 36	-	- - 32 36	
D	51.5	70.5	51.5	70.5	51.5	70.5	
E	33.5	47.5	33.5	47.5	33.5	47.5	
F	32.2	42.7	32.2	42.7	32.2	42.7	
G	Hole for M4 screws	Hole for M5 screws	Hole for M4 screws	Hole for M5 screws	Hole for M4 screws	Hole for M5 screws	
I (exhaust)	1/8″	1/4"	1/8″	1/4"	1/8″	1/4"	
L	16	22.5	16	22.5	16	22.5	
O (pilot)	-	-	M5	1/8″	-	-	
Q (no. 2 additional air takes-off)	1/8″	1/4"	1/8″	1/4″	1/8″	1/4"	
** Pilot			-	_	M5	M5	

KEY TO CODES

56	1	1	٧	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	ТҮРЕ	THREADED OUTPUT CONNECTION
56 Syntesi 5X Syntesi anti-corrosion	1 Size 1 2 Size 2	 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port 0 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1"port 	V Shut-off valve	 10 Manual with Ø3.5 hole for padlocks ★ 11 Manual with Ø7 hole for padlock ● 20 Pneumatic ● 30 Solenoid pilot-assisted ● 70 Solenoid 	 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port 0 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

- Compatible with most of the padlocks available from the trade with a Ø5mm arch.
 Not available in the anti-corrosion version.

PURCHASE ORDER CODES HAVING A MORE FREQUENT USE

N.B. Besides the below mentioned codes, you can order elements composed at your will according to the key to codes.							
Code	Description	Code	Description	NOTE			
Syntesi _® SY1	Syntesi _® SY1 SHUT-OFF VALVE		Syntesi _® SY2 SHUT-OFF VALVE		Anti-corrosion version		
5610V100	V3V SY1 manual without bushings	5620V100	V3V SY2 manual without bushings	5X			
5611V101	V3V SY1 1/8 manual	5623V103	V3V SY2 3/8 manual	Example			
5612V102	V3V SY1 1/4 manual	5624V104	V3V SY2 1/2 manual	5X11V101	V3V SY1 1/8 anti-corrosion		
5613V103	V3V SY1 3/8 manual	5625V105	V3V SY2 3/4 manual				
		5626V106	V3V SY2 1 manual				
5610V200	V3V SY1 pneumatic without bushings						
5611V201	V3V SY1 1/8 pneumatic	5620V200	V3V SY2 pneumatic without bushings				
5612V202	V3V SY1 1/4 pneumatic	5623V203	V3V SY2 3/8 pneumatic				
5613V203	V3V SY1 3/8 pneumatic	5624V204	V3V SY2 1/2 pneumatic				
	•	5625V205	V3V SY2 3/4 pneumatic				
5610V300	V3V SY1 elpn pilot-assisted without bushings	5626V206	V3V SY2 1 pneumatic				
5611V301	V3V SY1 1/8 elpn pilot-assisted		·				
5612V302	V3V SY1 1/4 elpn pilot-assisted	5620V300	V3V SY2 elpn pilot-assisted Cnomo without bushings				
5613V303	V3V SY1 3/8 elpn pilot-assisted	5623V303	V3V SY2 3/8 elpn pilot-assisted Cnomo				
		5624V304	V3V SY2 1/2 elpn pilot-assisted Cnomo				
5610V700	V3V SY1 elpn without bushings	5625V305	V3V SY2 3/4 elpn pilot-assisted Cnomo				
5611V701	V3V SY1 1/8 elpn	5626V306	V3V SY2 1 elpn pilot-assisted Cnomo				
5612V702	V3V SY1 1/4 elpn						
5613V703	V3V SY1 3/8 elpn	5620V700	V3V SY2 elpn without bushings				
	·	5623V703	V3V SY2 3/8 elpn				
		5624V704	V3V SY2 1/2 elpn				
		5625V705	V3V SY2 3/4 elpn				
		5626V706	V3V SY2 1 elpn				
			·				

NOTES

SUNTESI. ACCESSORIES



MOUNTING BRACKET FOR REG. AND FR KNOB



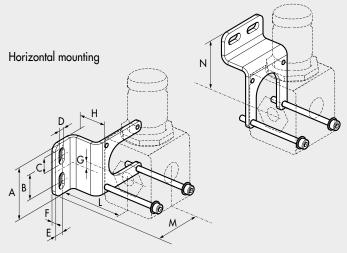
Code	Description
9200701	SF100 - BIT-ND 1/4 - SY1
9400701	SF200 - ND-3/8 1/2 - SY2

		
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11		

Code	Α	В	С	D	E
9200701	32	20	12	5.5	14.2
9400701	42	40	12	5.5	15

MOUNTING BRACKET





Code	Description
9200716X	Mounting bracket SY1
9200717X	Mounting bracket SY2

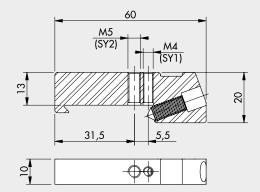
Note: Supplie complete with screws and washers.

Max torque 0.8 Nm for SY1 - Max torque 2.0 Nm for SY2

Codes to be used for units in the standard and the anti-corrosion version

Code	Α	В	С	D	E	F	G	Н	L	М	N
9200716X	41.5	20	12.7	5.5	7	3	0.8	25	43.8	46.5	47
9200717X	60	40	12.7	5.5	8	3	1.3	30	57.5	58.3	59.5

CONNECTION BRACKETS ON THE BAR (DIN EN50022)



Code Description

9200718X Connection brackets on DIN bar, SY1 - SY2
Note: 2 pieces per pack complete with screws and washers.
Max torque 0.8 Nm for SY1 - Max torque 2.0 Nm for SY2
Codes to be used for units in the standard and the anti-corrosion version

PRESSURE GAUGES



Code	Description
9700101	M 40 1/8 012
9700102	M 40 1/8 04
9800101	M 50 1/8 012
9800102	M 50 1/8 04
9900101	M 63 1/4 012



9700109	M 40x40 1/8 04
9700110	M 40x40 1/8 012

ADAPTERS FOR PRESSURE GAUGES (SY2)



Code	Description
9210005	1/4 adapter for 1/8 pressure gauge

COIL 22 mm FOR APR AND V3V ELPN



Code	Description
W0215000151	Coil 22 Ø 8 BA 2W-12VDC
W0215000101	Coil 22 Ø 8 BA 2W-24VDC
W0215000111	Coil 22 Ø 8 BA 3.5VA-24VAC
W0215000121	Coil 22 Ø 8 BA 3.5VA-110VAC
W0215000131	Coil 22 Ø 8 BA 3.5VA-220VAC

"UL" AND "CSA" COILS 22 mm





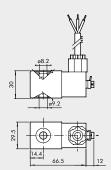
Code	Description
W0215000251	Coil 22 Ø 8 BA 2W-12VDC UR
W0215000201	Coil 22 Ø 8 BA 2W-24VDC UR
W0215000211	Coil 22 Ø 8 BA 3.5VA-24VAC UR
W0215000221	Coil 22 Ø 8 BA 3.5VA-110VAC UR
W0215000231	Coil 22 Ø 8 BA 3.5VA-220VAC UR

COIL 30 mm FOR APR AND V3V ELPN



Code	Description
W0210010100	Coil 30 Ø 8 2W-24VDC
W0210011100	Coil 30 Ø 8 3.5VA-24VAC 50/60 HZ
W0210012100	Coil 30 Ø 8 3.5VA-110VAC 50/60 HZ
W0210013100	Coil 30 Ø 8 3.5VA-220VAC 50/60 HZ

KIT FOR COIL EEXM



Code	Description
0227606913	Kit for coil 30 24 VDC EEXMT5 cable 3m
0227606915	Kit for coil 30 24 VDC EEXMT5 cable 5m
0227608013	Kit for coil 30 24 VAC EEXMT5 cable 3m
0227608015	Kit for coil 30 24 VAC EEXMT5 cable 5m
0227608023	Kit for coil 30 110 VAC EEXMT5 cable 3m
0227608025	Kit for coil 30 110 VAC EEXMT5 cable 5m
0227608033	Kit for coil 30 230 VAC EEXMT5 cable 3m
0227608035	Kit for coil 30 230 VAC EEXMT5 cable 5m

According to Atex 2014/34/EU rule,
 Il 2G Ex mb IIC T4/T5 Gb

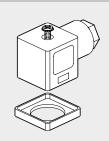
 ${\it N.B.}$: Supplied complete with adapter for Ø8 mm sleeve

ELECTRIC CONNECTOR 22 mm FOR APR AND V3V ELPN



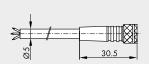
Code	Description
W0970510011	Connector standard
W0970510012	Connector 22 LED 24V
W0970510013	Connector 22 LED 110V
W0970510014	Connector 22 LED 220V
W0970510015	Connector 22 LED VDR 24V
W0970510016	Connector 22 LED VDR 110V
W0970510017	Connector 22 LED VDR 220V
W0970510070	Connector 22 II 2 GD ATEX

ELECTRIC CONNECTOR 30 mm FOR APR AND V3V ELPN



Code	Description
W0970520033	Connector 30 STD
W0970520034	Connector 30 LED 24V
W0970520035	Connector 30 LED 110V
W0970520036	Connector 30 LED 220V
W0970520037	Connector 30 LED VDR 24V
W0970520038	Connector 30 LED VDR 110V
W0970520039	Connector 30 LED VDR 220V

M8 STRAIGHT CONNECTOR WITH CABLE FOR PRESSURE SWITCHES





Brown
Blue
Black

Code	Description
02400A0100	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 1 m
02400A0250	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 2.5 m
02400A0500	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 5 m
02400A1000	M8 female 3 PIN HIGH FLEX CL6 connector with cable $L = 10 \text{ m}$

Mobile laying cable, class 6 according to IEC 60228

KIT COIL SIDE 22 IP65



Code	Description
0222100100	Kit for coils 22 - IP65

Improved IP65 protection, even after prolonged exposure to atmospheric agents.

THREADED PORT



Code	Description
9210001	Kit IN OUT 1/8 SY1
9210002	Kit IN OUT 1/4 SY1
9210003	Kit IN OUT 3/8 SY1
9210011	Kit IN OUT 3/8 SY2
9210012	Kit IN OUT 1/2 SY2
9210013	Kit IN OUT 3/4 SY2
9210014	Kit IN OUT 1 SY2
9210001X	Kit IN OUT 1/8 SY1 anti-corrosion
9210002X	Kit IN OUT 1/4 SY1 anti-corrosion
9210003X	Kit IN OUT 3/8 SY1 anti-corrosion
9210011X	Kit IN OUT 3/8 SY2 anti-corrosion
9210012X	Kit IN OUT 1/2 SY2 anti-corrosion
9210013X	Kit IN OUT 3/4 SY2 anti-corrosion
9210014X	Kit IN OUT 1 SY2 anti-corrosion

Description

 $\begin{array}{l} \mbox{Max torque 0.4 Nm for SY1} \\ \mbox{Max torque 2.5 Nm for SY2} \end{array}$

CONNECTING NIPPLE KIT

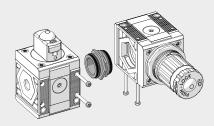


9210000	Connecting nipple kit SY1
9210010	Connecting nipple kit SY2
9210000X	Connecting nipple kit SY1
	anti-corrosion
9210010X	Connecting nipple kit SY2
	anti-corrosion

Code

Max torque 0.4 Nm for SY1 Max torque 2.5 Nm for SY2

90° CONNECTING ELEMENT KIT

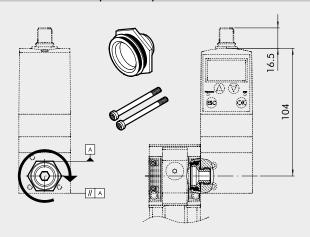


Code	Description
9210009	90° SY1 connection element kit
9210019	90° SY2 connection element kit
9210009X	90° anti-corrosion SY1 connection element kit
9210019X	90° anti-corrosion SY2 connection element kit

Max torque 0.4 Nm for SY1 Max torque 2.5 Nm for SY2



KIT CONNECTING REGTRONIC 1/4 (PAGE C6.10) AND GS REGULATOR (PAGE C6.2)



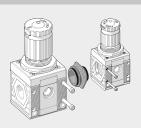
Code Description
9210004 Adapter for regtronic 1/4 SY1

Max torque for screw, 0.4 Nm

Instructions:

- Screw the connecting bushing onto the REGTRONIC 1/4 as far as it will go.
 Use sealant on the G1/4 thread to provide a further seal.
- 2) Unscrew the bushing slightly until two surfaces of the hexagon are parallel to the body of REGTRONIC 1/4 (see diagram).
- 3) Insert the bushing into the Syntesi® unit.
- 4) Tighten the two self-tapping screws in the Syntesi® unit to a torque of 0.4 Nm max.

SY1 - SY2 SIZE ADAPTER



 Code
 Description

 9210006
 SY1 - SY2 size adapter

 9210006X
 SY1 - SY2 size adapter anti-corrosion

Max torque for screw, 0.4 Nm for SY1 Max torque for screw, 2.5 Nm for SY2

SY1 - SY2 KIT FOR CONNECTION TO FLUX 1 - 2



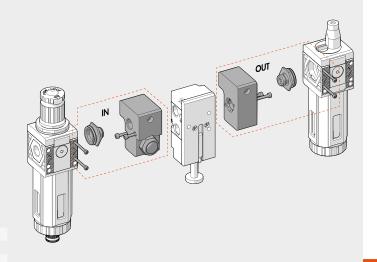
 Code
 Description

 900099A002
 Adapter FLUX 1 - SY1

 900099A003
 Adapter FLUX 2 - SY2

Max torque for screw, 0.4 Nm for SY1 Max torque for screw, 2.5 Nm for SY2 See page **C6**.33 for the assembly diagram.

SY1 - SY2 KIT FOR CONNECTION TO SERIE 70 SAFE AIR® VALVES



Code	Description
9210015	IN 1/4 SY1 block accessory
9210016	OUT 1/4 SY1 block accessory
9210022	IN 3/8 SY1 block accessory
9210023	OUT 3/8 SY1 block accessory
	· ·
9210017	IN 3/8 SY2 block accessory
9210018	OUT 3/8 SY2 block accessory
9210020	IN 1/2 SY2 block accessory
9210021	OUT 1/2 SY2 block accessory
	<i>,</i>

Max torque for screw, 0.4 Nm for SY1 Max torque for screw, 2.5 Nm for SY2

See page **B1**.151 for the assembly diagram.

BOWL DISASSEMBLY SPANNER



 Code
 Description

 9170601
 CS TF - TL BIT/SY1

 9210050
 CS TF - TL SY2

WALL-FIXING SCREW



 Code
 Description

 9210030
 M4 x 55 fixing screw SY1

 9210031
 M5 x 75 fixing screw SY2

Max torque 0.8 Nm for SY1 Max torque 2.0 Nm for SY2

PADLOCK



Code Description 9062401 Padlock

SUNTESI. SPARE PARTS

AUTOMATIC DRAIN (RA)



Code Description
9000802 RA automatic d

RA automatic drain spare part

AC FILTERING ELEMENT (ACTIVE CARBON)



 Code
 Description

 9210161
 Cartridge AC SY1

 9210166
 Cartridge AC SY2

AUTOMATIC DRAIN (SAC)



Code Description 9000803 Spares SAC

Spares SAC automatic drain

TRANSPARENT LUBRICATOR COVER



Code Description

9210180 Transparent cover LUB SY1 9210185 Transparent cover LUB SY2

BOWL RMSA/RA/SAC



 Code
 Description

 9210100
 Bowl FIL FR DEP RMSA SY1

 9210101
 Bowl FIL FR RA SY1

 9210102
 Bowl FIL FR DEP SAC SY1

 9210105
 Bowl FIL FR DEP RMSA SY2

 9210106
 Bowl FIL FR RA SY2

 9210107
 Bowl FIL FR DEP SAC SY2

LUBRICATOR OIL-FILLING CAP



CodeDescription9210181Oil-filling cap LUB SY19210186Oil-filling cap LUB SY2

LUBRICATOR BOWL

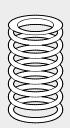


 Code
 Description

 9210110
 Bowl LUB SY1

 9210115
 Bowl LUB SY2

SPRINGS FOR REGULATORS AND FR



Code Description 9210190 Spares MO 02 SY1 9210191 Spares MO 04 SY1/SY1 anti-corrosion 9210192 Spares MO 08 SY1 9210193 Spares MO 012 SY1 9210195 Spares MO 02 SY2 Spares MO 04 SY2 9210196 9210197 Spares MO 08 SY2 Spares MO 012 SY2 9210198 9210192X Spares 08 SY1 anti-corrosion 9210193X Spares 012 SY1 anti-corrosion 9210197X Spares 08 SY2 anti-corrosion 9210198X Spares 012 SY2 anti-corrosion

FILTERING ELEMENT



 Code
 Description

 9210150
 Filtering element 5µm (yellow) SY1

 9210151
 Filtering element 20µm (white) SY1

 9210152
 Filtering element 50µm (blue) SY1

 9210155
 Filtering element 5µm (yellow) SY2

 9210156
 Filtering element 20µm (white) SY2

 9210157
 Filtering element 50µm (blue) SY2

PURIFIER FILTERING ELEMENT



 Code
 Description

 9210160
 Cartridge 0.01 µm DEP SY1

 9210165
 Cartridge 0.01 µm DEP SY2

 9210162
 Cartridge 1 µm DEP SY1

 9210167
 Cartridge 1 µm DEP SY2

BELL FOR REG AND FR



Code Description 9210200 Bell 02 SY1 9210201 Bell 04 SY1 9210202 Bell 08 SY1 9210203 Bell 012 SY1 9210220 Bell 02 SY2 9210221 Bell 04 SY2 9210222 Bell 08 SY2 9210223 Bell 012 SY2 9210202X Bell 08 SY1 anti-corrosion 9210203X Bell 012 SY1 anti-corrosion 9210222X Bell 08 SY2 anti-corrosion 9210223X Bell 012 SY2 anti-corrosion



POPPET FOR REG



 Code
 Description

 9210210
 Poppet REG SY1

 9210230
 Poppet REG SY2

 9210210X
 Poppet REG SY1

9210230X

Poppet REG SY2
Poppet REG SY1 anti-corrosion
Poppet REG SY2 anti-corrosion

NOTES

POPPET FOR FR



 Code
 Description

 9210211
 Poppet FR 5µm SY1

 9210212
 Poppet FR 20µm SY1

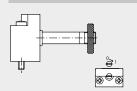
 9210213
 Poppet FR 50µm SY1

 9210231
 Poppet FR 5µm SY2

 9210232
 Poppet FR 20µm SY2

 9210233
 Poppet FR 50µm SY2

CNOMO CONTROL FOR V3V AND APR SY2



Code Description 9453922 Elpn Cnomo

Elpn Cnomo control kit, manual bistable

NOTES

GENERAL TECHNICAL DATA SUNTESI.

Syntesi® is an important milestone achieved by Metal Work, the result of thirty years' experience producing air-treatment units. It has been studied in minute detail to obtain the best possible performance in a reduced space and with limited weight. The capacity is much higher than that of other units of the same size.

This modular unit features a very simple yet effective system that requires no brackets, stay bolts or yoke for assembling the elements.

The basic version of Syntesi® incorporates numerous functions that are not provided or are only optional with traditional units. Examples are padlockable knobs, additional pneumatic ports on the front and back, flow options from left to right or vice versa, regulators with compensation system - which are accurate even when the upstream pressure changes, with rapid downstream pressure relief - full indelible marking, automatic condensate drain even in size 1, and 360° visual inspection of oil and condensate levels. The basic materials, technopolymer and nickel-plated brass have excellent corrosion resistance. An anti-corrosion version is available with stainless steel components (screws, plates) or Geomet®-reated ones (regulator springs).



TECHNICAL DATA		SIZE 1			SIZE 2			
Threaded port		1/8″	1/4"	3/8″	3/8″	1/2"	3/4"	1"
Max. input pressure	bar		15	'	,		13	
	MPa		1.5				1.3	
	psi		217				188	
Flow rate		See catalogue of the various elements						
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C	from -10 to +50			from -10 to +50			
Padlockable knob		The knobs of the regulators, filter regulators and standard sectioning valves can all be padlocked						
Fluid		Compressed air or other inert gases						
Mounting position		See catalogue of the various elements						
Direction of flow		Flow options right to left or vice versa						
Additional air take-off, for pressure gauges or fittings		1/8", front and rear, on all modules			1/4", front and rear, on all modules			
Wall fixing screws		No. 2 M4 screws			No. 2 M5 screws			
Certification for potentially explosive atmosphere		II 3G Ex h IIC T5 Gc -10°C < Ta < 50°C						
according to Atex 2014/34/EU rule		₩ 3D Ex h IIIC T100 °C Dc						

ANTI-CORROSION VERSION

Differences compared to the standard version:

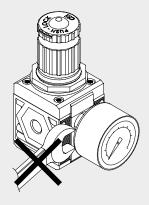
- stainless steel screws
- stainless steel plate for R, FR, V3V knobs
- Geomet®-treated regulator spring and filter-regulator



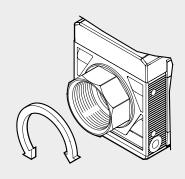
FIXING TO FRONT PORTS

ROTARY BUSHINGS

LASER MARKING



Do not use a spanner for fixing taper threaded elements to the front ports. Mount by hand and apply a liquid sealant (not teflon®).



3/4" and 1" bushings in Size 2 rotate freely to facilitate assembly operations.

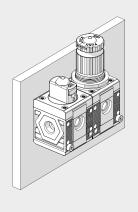


The following is marked indelibly on the body:

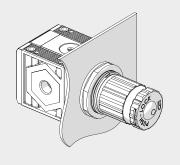
- Metal Work trademark
- Code
- Maximum pressure and temperature
- Degree of filtration or pressure range, where relevant
- Week and year of manufacture
- Atex category
- Made in Italy

MOUNTING OPTIONS

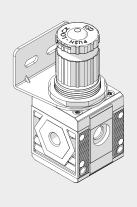
On the wall, using two screws



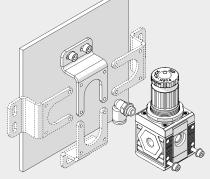
On a panel



Using knob bracket



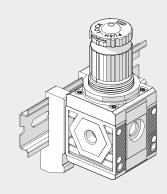
Using a bracket



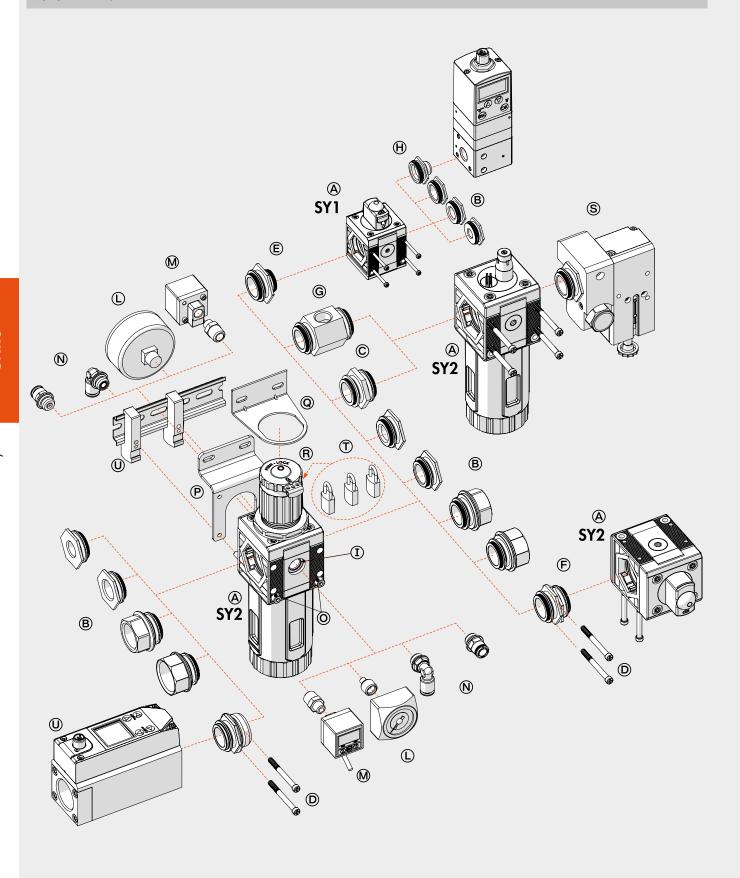
mounted on the pressure gauge air intake at the back of the unit.



On a DIN EN50022 bar with the apposite adaptator



MODULARITY AND FLEXIBILITY





The various elements of Syntesi® (a) can be connected to the air feed and delivery circuit using pneumatic nickel brass or passivated aluminium ports (a) and can be fixed together using nipples (c).

The nipples and ports are easy to remove by unscrewing the two front screws . This solution has numerous advantages:

- Reduced overall dimensions.
- Free composition of multiple elements, without the need for brackets, stay bolts or yoke.
- The threads for the fittings are metallic, allowing high tightening torques, also for tapered threads.
- Maximum flexibility: a unit can be transformed at any time by adding an element or replacing a port with another one, e.g. 1/4" instead of 1/8".
- The air intake port can be the same or different from the outlet port, as desired.

Standard Syntesi® ports are: 1/8", 1/4", 3/8" for size 1; 3/8", 1/2", 3/4", 1" for size 2.

It may be necessary to use a vice to insert the bushes into size 2.

The nipples have different functions:

- Nipple © joins two elements of the same size together.
- Size adaptor © can be used to connect an element in the Syntesi® 2 series with one in the Syntesi® 1 series.
- The 90° adaptor © can be used to connect two 90° angled elements. For example, it can help directing the regulator knob or the control knob of a sectioning valve towards the user.
- The two-way air intake @ is a simple and cost-effective system which, besides connecting two elements together, has 2 opposing threaded air intakes.
- The adaptor for Regtronic ⊕ can be used to fix the Regtronic 1/4" proportional valve to a Syntesi® size 1 element.

Additional ports ①. On the front and back of ALL Syntesi® elements there is a port (1/8" for size 1, 1/4" for size 2) that can be used for pressure gauges ①, pressure switches ⑩ or, given the high flow rate, as additional air take-off ⑩. These ports are downstream of the element, so, for example, a regulator port can supply air at a set pressure or a filter port can supply filtered air (not valid for activated carbon filter and depurator).

Wall fixing. Only two through screws @ are needed. No bulky brackets or additional flanges are required. The bracket @ can be used to separate the unit from the fixing wall, e.g. to mount a fitting to the rear port.

Fixing on a DIN EN50022 bar. Can be done using the bracket kit ①.

Regulator fixing bracket @. Regulators and filter-regulators can also be fixed using a steel bracket @ that embraces the bell.

Padlockable knob (B). The knobs of regulators, filter-regulator and sectioning valves can all be padlocked. The steel plate is included in the supply. You can insert up to two 3 mm diameter padlocks (T) on size 1 and three padlocks on size 2. As an alternative, the sectioning valve can have a steel plate suitable for a single 6 mm diameter padlock.

Safety valve (S). The unit can incorporate a series 70 SAFE AIR® safety valve.

Flowmeter series FLUX 1-2 (1). The unit can incorporate a series FLUX 1 or FLUX 2 flow meter.