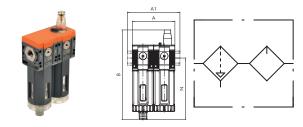


## Service unit

Filter + lubricator, »SYNTESI« series

### PLUS

Art. No. 145424 Type No. 5626F40L106



Exemplary illustration

Two-part service units consisting of filter and lubricator of the »SYNTESI« series. For all information on the relevant properties, please refer to the data sheets of the individual components.

### **Technical data**

Series	Syntesi
Size	2
Max. input pressure	10 bar
Temperature range	-10 to 50 °C
Input	G 1
Output	G 1
Front and back port thread	G 1/4
Flow rate measurement 1	$P_2 = 6.3$ bar and pressure drop $\Delta_p = 0.5$ bar
Flow rate 1	2900 NI/min
Flow rate measurement 2	$P_2 = 6.3$ bar and pressure drop $\Delta_p = 1$ bar
Flow rate 2	4400 NI/min
Filter rating	5 μm
Condensate drain	RA fully automatic
Output air purity class according 8573-1	to ISO 3.7
Medium	Compressed air or other neutral gases
Housing	Technopolymer
Sealant	NBR
Bowl	Technopolymer
Sight dome	Brass
A	121.0 mm
A1	156,0 mm
В	212.0 mm
N	143.8 mm



### **Commercial data**

Customs tariff number	84248970
Country of origin	IT
eCl@ss 5.1.4	27292890
eCl@ss 9.0	27292890
UNSPSC_Code_v190501	27131630
UNSPSC_CodeDesc_v190501	Pneumatic lubricators



# FIL + LUB SYNTESI.



For full details and list of components refer to the sections about filter and lubricator.



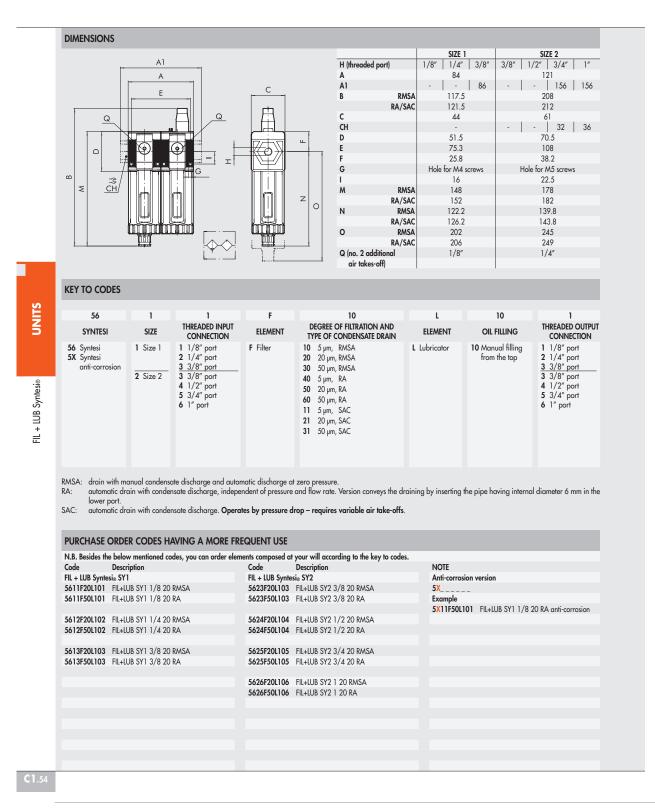
TECHNICAL DATA			FIL	+ LUB SY1			FIL + I	UB SY2			
Threaded port		1/8″		1/4″	3/8″	3/8″	1/2″	3/4″		1″	UNITS
Degree of filtration	μm			5 ()	vellow) - outp	ut air purity class	ISO8573-1: 3.	7			
				20	(white) - outp	ut air purity class	ISO8573-1: 4.	7			2 Z
				50	(blue) - outpu	ut air purity class	ISO8573-1: 5.	7			
Max. inlet pressure	bar			15		l í í		13			
	MPa			1.5				.3			
	psi			217				88			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ∆P 0.5 bar (0.05 MPa; 7 ps				860				900			
	scfm			30				)2.5			FIL + LUB Svntesi®
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ∆P 1 bar (0.1 MPa; 14 psi)				1450				400			Lte
riow rate at 0.5 bar (0.05 Mira, 71 psi) Δr 1 bar (0.1 Mira, 14 psi)	scfm			51				400 56			Š
	scrm °C		-								9
Min/max temperature at 10 bar; 1 MPa; 145 psi			Fro	om -10 to +50				10 to +50			=
Weight	g	349		344	355	840	813	809		797	
Fluid					Compres	ssed air or other i					<u> </u>
Mounting position				Vertical				rtical			
Additional air take-off, for pressure gauges or fittings			1/8″,	front and rear	r		1/4″, fro	nt and rear			
Additional air take-off flow rate at 6.3 bar	NI/min		5	500 - 450			1500	) - 800			
(0.63 MPa; 91 psi) ∆P 1 bar (0.1 MPa; 14 psi)	scfm			18 - 16			53	- 28			
Filter bowl capacity (condensate)	cm <sup>3</sup>			30				70			
Quantity of filled oil	cm <sup>3</sup>			60			1	30			
Condensate drain		R	MSA: c	drain with man	ual condensa	ite discharge and	automatic disc	narae at zero	pressur	re	
						ate discharge, inc					
		Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port. SAC: automatic drain with condensate discharge. <b>Operates by pressure drop – requires variable air take-offs</b> .									
		UAC. UNION								III TUKE UITS.	
Recommended oils		Note: the maximum input pressure for the RA version must not exceed 10 bar ISO and UNI FD22									
Recommended ons											
			N.	2 M4 screws	(Energoi HPL)	; Spinesso; Mobil		15 screws			
Wall fixing screws			INO.	Z M4 screws			INO. 2 /	NO screws			

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## 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 levels. The basic materials, technopolymer and nickelplated 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			SIZ	ZE 2	
Threaded port		1/8″	1/4″	3/8″	3/8″	1/2″	3/4″	1″
Max. input pressure	bar		15			. 1	3	
	MPa		1.5				.3	
	psi		217				88	
Flow rate					logue of the variou			
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C		om -10 to +50				0 to +50	
Padlockable knob		The k	nobs of the re		lators and standard		can all be padlo	cked
Fluid					essed air or other in			
Mounting position					logue of the variou			
Direction of flow					tions right to left or			
Additional air take-off, for pressure gauges or fittings			and rear, on a			1/4", front and n		es
Wall fixing screws		No	. 2 M4 screws				15 screws	
Certification for potentially explosive atmosphere				(Ex) II 3G Ex h	IIC T5 Gc -10°C < IIIC T100 °C Dc	Ta < 50°C		
according to Atex 2014/34/EU rule				I 3D Ex h	IIIC TTOU °C De			
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

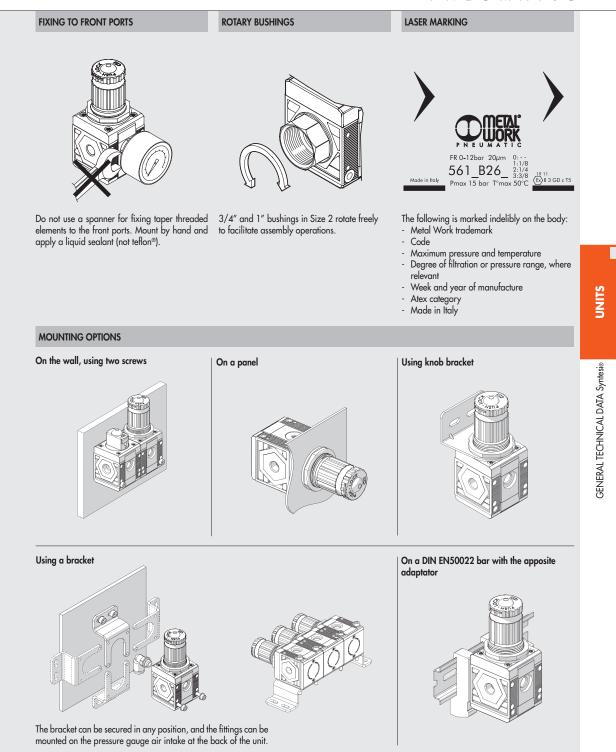
**C1** 

**C1**.4



**C1** 









**C1**.6

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**C1** 



The various elements of Syntesis 🙆 can be connected to the air feed and delivery circuit using pneumatic nickel brass or passivated aluminium ports 🕲 and can be fixed together using nipples ©.

- The nipples and ports are easy to remove by unscrewing the two front screws D. 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 (E) 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 (i) is a simple and cost-effective system which, besides connecting two elements together, has 2 opposing threaded air intakes. - The adaptor for Regtronic (B) can be used to fix the Regtronic 1/4" proportional valve to a Syntesie size 1 element. Additional ports (D). On the front and back of ALL Syntesie elements there is a port (1/8" for size 1, 1/4" for size 2) that can be used for pressure

gauges (D, pressure switches (D) or, given the high flow rate, as additional air take-off (D). 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 (0). Regulator fixing bracket (a). Regulators and filter-regulators can also be fixed using a steel bracket (a) that embraces the bell.

Padlockable knob ®. 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.

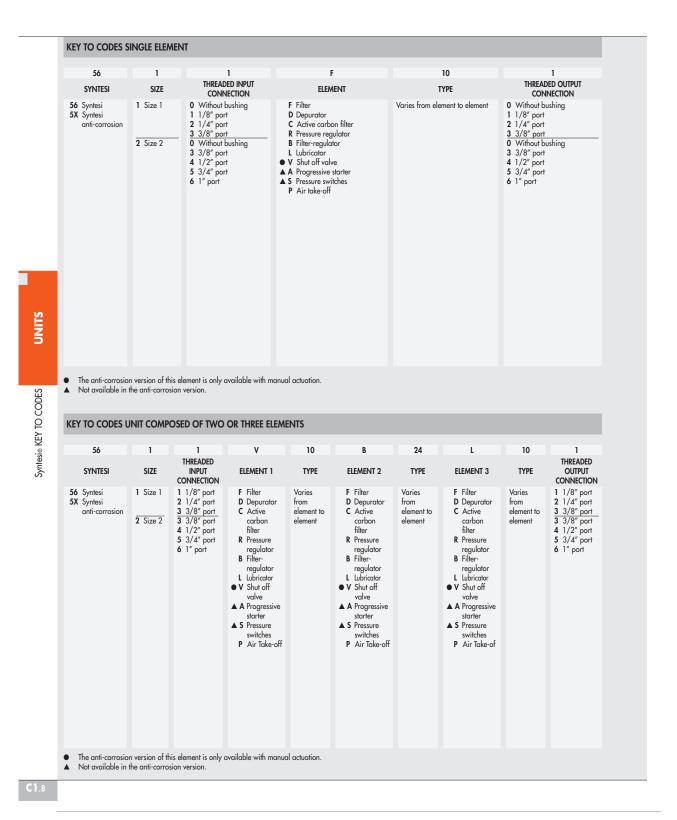
Safety valve (s). The unit can incorporate a series 70 SAFE AIR® safety valve.

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

UNITS



## C1 SUNTESI. KEY TO CODES





#### Accessories

	Art. No.	Type No.	
Bowl, size 2, RMSA semi-automated	145614	9210105	
Bowl, size 2, SAC fully automated	145616	9210107	
Filter element, size 2, 20 µm	145623	9210156	
Filter element, size 2, 50 µm	145624	9210157	
Mounting bracket, size 2, standard and anti-corr.	145659	9200717X	
Adapter for DIN rail, size 1 and size 2	145660	9200718X	
Connecting nipple kit, size 2	144696	9210010	
Connecting element 90°,, size 2	145503	9210019	
Size adapter, size 1 - size 2, incl. 4 screws	145504	9210006	
Assembly key for bowl, size 2	145506	9210050	
Fastening screw, size 2	145508	9210031	

### **Spareparts**

	Art. No.	Type No.	
Automatic bleeder valve, RA	145609	9000802	
Bowl, size 2, RA fully automated	145615	9210106	
Bowl for lubricator, size 2, PA12	145618	9210115	
Filter element, size 2, 5 μm	145622	9210155	
Lubricator dome (drip cap), s2, w. oil filling cap	145630	9210185	
Oil filling cap, size 2	145632	9210186	
Threaded port bushing, size 2, G 1	144694	9210014	