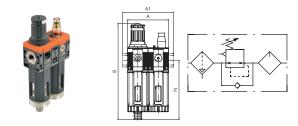


Service unit

Filter regulator + lubricator »SYNTESI« series

PLUS

Art. No. 144824 Type No. 5626B56L106



Exemplary illustration

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

Pressure gauge not included in delivery!



Technical data

Series	Syntesi
Size	2
Max. input pressure	10 bar
Temperature range	-10 to 50 °C
Control range	0 - 10 bar
Input	G 1
Output	G 1
Front and back port thread	G 1/4
Flow rate measurement 1	at P ₁ = 10 bar, P ₂ = 6.3 bar and pressure drop Δ_p = 0.5 bar
Flow rate 1	1200 NI/min
Flow rate measurement 2	at P ₁ = 10 bar, P ₂ = 6.3 bar and pressure drop $\Delta_p = 1$ bar
Flow rate 2	4000 NI/min
Filter rating	20 µm
Condensate drain	RA fully automatic
Output air purity class according 8573-1	to ISO 4.7
Medium	Compressed air or other neutral gases
Housing	Technopolymer
Sealant	NBR
Diaphragms	NBR 60 Shore (hardness) with polyester fabric insert
Bowl	Technopolymer
Sight dome	Brass
Spring bonnet	Technopolymer
A	121.0 mm
A1	156,0 mm
В	250.0 mm
N	143.8 mm

Commercial data

Customs tariff number	84811005
Country of origin	IT
eCl@ss 5.1.4	27292890
eCl@ss 9.0	27292890
UNSPSC_Code_v190501	27131604
UNSPSC_CodeDesc_v190501	Pneumatic lubricators



FR + LUB SYNTESI.



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



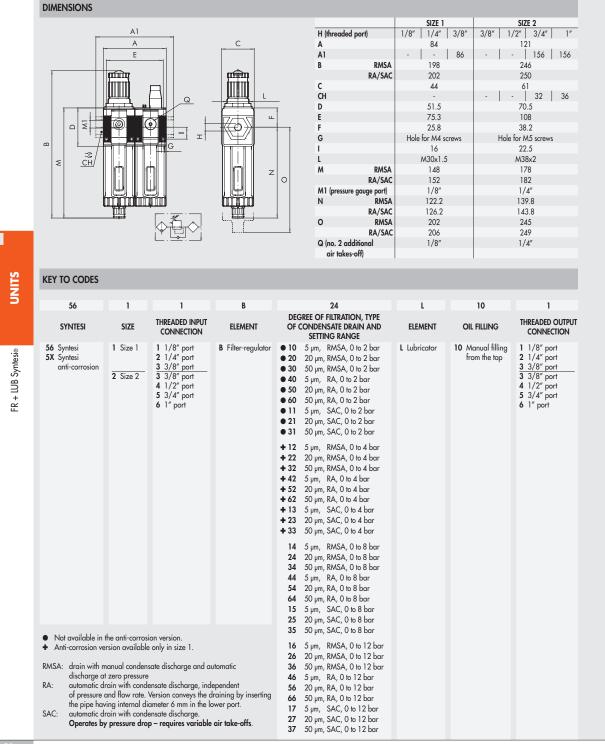
TECHNICAL DATA		FR + LUB SY1	FR + LUB SY2					
Threaded port Degree of filtration		1/8" 1/4" 3/8"	3/8" 1/2" 3/4" 1" ut air purity class ISO8573-1: 3.7	UNITS				
Degree or hirration	μm		ut air purity class ISO8573-1: 3.7 ut air purity class ISO8573-1: 4.7	z				
			it air purity class ISO8573-1: 5.7	>				
Λαx. inlet pressure	bar	15	13					
	MPa	1.5	1.3					
	psi	217	188					
low rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	Nl/min	350	1200	.®				
(P In=10 bar) low rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	scfm Nl/min	12 1400	42.5	nte				
(P In=10 bar)	scfm	50	141.5	Š				
elief valve flow rate at 6.3 bar (0.63 MPa; 91 psi)	NI/min	70	100	UB				
	scfm	2.5	3.5	⁼R + LUB Syntesi®				
Nin/max temperature at 10 bar; 1 MPa; 145 psi	°C	From -10 to +50	From -10 to +50	FR				
radlockable knob			Included					
Jpstream pressure compensation			ncluded, via balanced valve					
Weight	g	414 409 400	1074 1047 1043 1031					
luid			pressed air or other inert gases					
Aounting position		Vertical	Vertical					
Additional air take-off, for pressure gauges or fittings Additional air take-off flow rate at 6.3 bar	Nl/min	1/8", front and rear 500 (FR) - 450 (LUB)	1/4", front and rear 1400 (FR) - 800 (LUB)					
(0.63 MPa; 91 psi) ∆P 1 bar (0.1 MPa; 14 psi)	scfm	18 (FR) - 16 (LUB)	49.5 (FR) - 28 (LUB)					
Filter bowl capacity (condensate)	cm ³	30	70					
Quantity of filled oil	cm ³	60	130					
Condensate drain		RMSA: drain with manual condensa	te discharge and automatic discharge at zero pressure					
		RA: automatic drain with condensate discharge, independent of pressure and flow rate.						
			g the pipe having internal diameter 6 mm in the lower port.					
	S	AC: automatic drain with condensate dischar	ge. Operates by pressure drop – requires variable air take-offs.					
Recommended oils			ssure for the RA version must not exceed 10 bar SO and UNI FD22					
ecommended oils			SO and UNI FD22 Spinesso; Mobil DTE; Tellus oil)					
Vall fixing screws		No. 2 M4 screws	No. 2 M5 screws					
		140. 2 MA SCIEWS	140. 2 MD 3016W3					

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URCHASE ORDER CODES HAVING A MORE FR		
.B. Besides the below mentioned codes, you can order eler ode Description	nents composed at your will according to the key to codes. Code Description	
R + LUB Syntesi _® SY1	FR + LUB Syntesi₀ SY2	NOTE
511B24L101 FR+LUB SY1 1/8 20 08 RMSA	5623B24L103 FR+LUB SY2 3/8 20 08 RMSA	Anti-corrosion version
511B54L101 FR+LUB SY1 1/8 20 08 RA	5623B54L103 FR+LUB SY2 3/8 20 08 RA	5X
512B24L102 FR+LUB SY1 1/4 20 08 RMSA	5624B24L104 FR+LUB SY2 1/2 20 08 RMSA	Example
512B54L102 FR+LUB SY1 1/4 20 08 RA	5624B54L104 FR+LUB SY2 1/2 20 08 RA	5X11B54L101 FR+LUB SY1 1/8 20 08 RA anti-corrosion
513B24L103 FR+LUB SY1 3/8 20 08 RMSA	5625B24L105 FR+LUB SY2 3/4 20 08 RMSA	
513B54L103 FR+LUB SY1 3/8 20 08 RA	5625B54L105 FR+LUB SY2 3/4 20 08 RA	
	5626B24L106 FR+LUB SY2 1 20 08 RMSA	
	5626B54L106 FR+LUB SY2 1 20 08 RA	
0750		
OTES		



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			SIZE 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					atalogue 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	knobs of the re		egulators and standar		can all be padlo	cked
Fluid					pressed air or other i			
Mounting position		See catalogue of the various elements						
Direction of flow					options right to left or			
Additional air take-off, for pressure gauges or fittings		1/8", front and rear, on all modules 1/4",				1/4", front and n	ear, on all modul	es
Wall fixing screws		No. 2 M4 screws					15 screws	
Certification for potentially explosive atmosphere according to Atex 2014/34/EU rule		(€x) 3G Ex h C T5 Gc -10°C < Ta < 50°C 3D Ex h IC 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

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C1.6

RIEGLER & Co. KG Schützenstraße 27 72574 Bad Urach Tel. +49 7125 9497-642 technik@riegler.de



C1

UNITS

GENERAL TECHNICAL DATA Syntesi®



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.



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, 5 µm	145622	9210155
Filter element, size 2, 50 µm	145624	9210157
Valve poppet for filter regulator, size 2, 5 µm	145654	9210231
Valve poppet for filter regulator, size 2, 50 µm	145656	9210233
Mounting bracket, size 2, standard and anti-corr.	145659	9200717X
Adapter for DIN rail, size 1 and size 2	145660	9200718X
Pressure gauge, G1/4 rear centric, 0-12 bar, Ø63mm	145474	9900101
Adapter for pressure gauges, G 1/4 ET, G 1/8 IT	145477	9210005
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
Padlock	145509	9062401

Spareparts

Art. No.	Type No.	
145609	9000802	
145615	9210106	
145618	9210115	
145623	9210156	
145630	9210185	
145632	9210186	
145640	9210198	
145648	9210223	
145655	9210232	
144694	9210014	
	145609 145615 145618 145623 145630 145632 145640 145648 145655	145609 9000802 145615 9210106 145618 9210115 145623 9210156 145630 9210185 145632 9210186 145640 9210198 145655 9210232