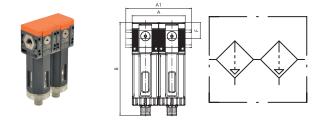


Service unit

»SYNTESI« series

PLUS

Art. No. 145380 Type No. 5626F40D106



Exemplary illustration

Two-part service units consisting of filter and depurator 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
Recommended flow rate at 6.3 bar	1050 NI/min
Filter rating of the depurator	0 μm
Filter rating of the filter	5 μm
Condensate drain of the filter	RA fully automatic
Condensate drain of the depurator	RMSA semi-automatic
Output air purity class according to IS 8573-1	0 _{1.7.2}
Medium	Compressed air or other neutral gases
Housing	Technopolymer
Sealant	NBR
Bowl	Technopolymer
A	121.0 mm
A1	217,0 mm
В	182.0 mm
F	38.2 mm



Commercial data

Customs tariff number	84213925
Country of origin	IT
eCl@ss 5.1.4	27292890
eCl@ss 9.0	27292890
UNSPSC_Code_v190501	27131604
UNSPSC_CodeDesc_v190501	Pneumatic lubricators



FIL + DEP SYNTESi.



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

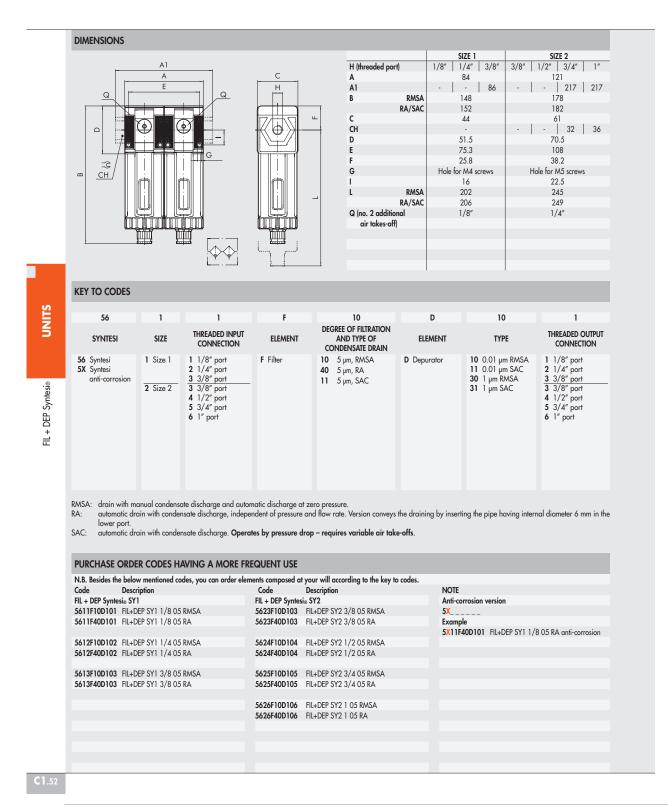


TECHNICAL DATA		FIL + DEP SY1	FIL + DEP SY2	
Threaded port		1/8" 1/4" 3/8"	3/8" 1/2" 3/4" 1"	ം
Purifier degree of filtration	μm		air purity class ISO8573-1: 1.7.2	UNITS
	F		ir purity class ISO8573-1: 3.7.3	Z
Filter degree of filtration	μm		5 (yellow)	>
Max. inlet pressure	bar	15	13	
	MPa	1.5	1.3	
	psi	217	188	
Suggested flow rate at 6.3 bar (0.63 MPa; 91 psi)	NI/min	550	1050	
	scfm	9	37	SI8.
Maximun suggested flow rate	30111	Look a the chart on the depurator page C1 .12		nte
Maximum suggested now rate			e recommended value reduces purification efficiency	Ś
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C	From -10 to +50	From -10 to +50	8
Win/ max temperature at 10 bar, 1 Mra, 145 psi Weight		358 353 344	942 915 911 899	
Purifier condensate drain	g			FIL + DEP Syntesi®
Furitier condensate drain Filter condensate drain			ate discharge and automatic discharge at zero pressure	
Filter condensate drain			ate discharge and automatic discharge at zero pressure	
			ate discharge, independent of pressure and flow rate.	
			ig the pipe having internal diameter 6 mm in the lower port.	
			rge. Operates by pressure drop – requires variable air take-offs.	
			essure for the RA version must not exceed 10 bar	
Fluid			essed air or other inert gases	
Bowl capacity filter/depurator	cm ³	30/15	70/40	
Mounting position		Vertical	Vertical	
Port for additional air take-off		1/8″, front and rear	1/4", front and rear	
Additional air take-off flow rate (not purified air)	NI/min	500	1500	
at 6.3 bar (0.63 MPa; 91 psi) ∆P 1 bar (0.1 MPa; 14 psi)	scfm	18	53	
Wall fixing screws		No. 2 M4 screws	No. 2 M5 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		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					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 knobs of the regulators, filter regulators and standard sectioning valves can all be padlocked				cked		
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			and rear, on a		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 II 3D Ex h IIC T10 °C Dc						
according to Atex 2014/34/EU rule		₩ II 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

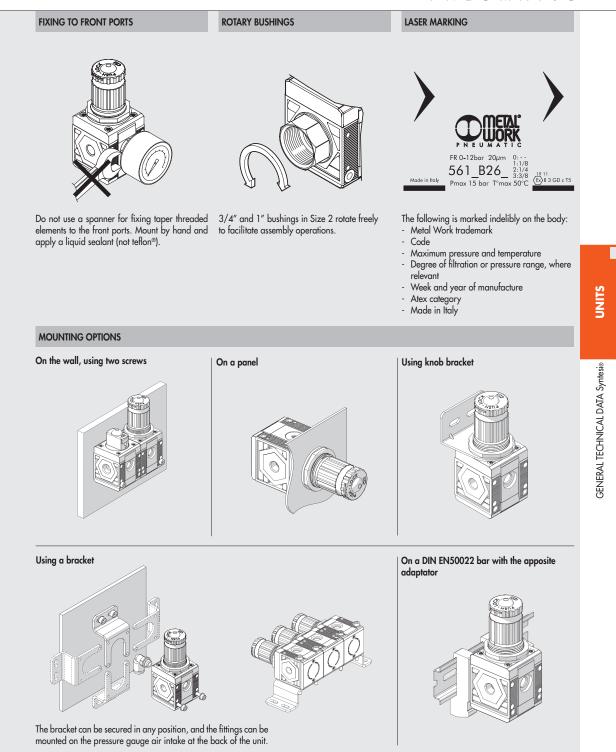
C1

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.

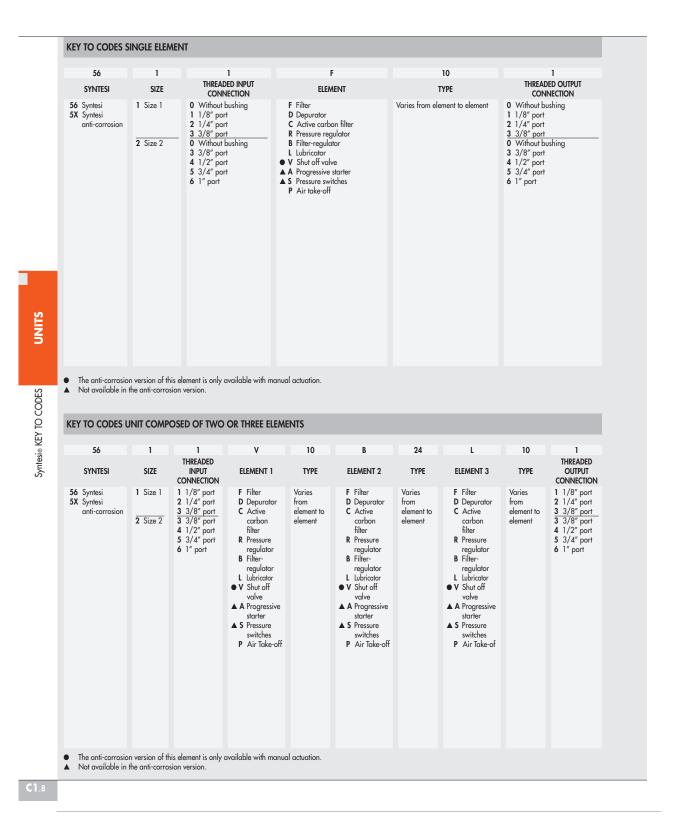
Safety valve (s). The unit can incorporate a series 70 SAFE AIR® safety valve.

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	
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	
Filter element, size 2, 5 µm	145622	9210155	
Filter element, size 2, 0,01 µm	145626	9210165	
Threaded port bushing, size 2, G 1	144694	9210014	