

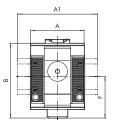
Air take-off

»SYNTESI« series

PLUS

Art. No. 144897 Type No. 5620P200





Exemplary illustration

Air take-off for mounting between two »SYNTESI« modules.

The 2-way version, made of nickel-plated brass, has two threaded ports, one facing upwards and one downwards. In the 4-way version, made of technopolymer, there is a threaded connection on each side. Thus, a total of four air outlets are available.

Technical data

Series	Syntesi
Size	2
Max. input pressure	13 bar
Temperature range	-10 to 50 °C
Input	without bushing
Output	without bushing
Outlet	1 x G 3/8, 3 x G 1/4
Flow rate measurement	$P_2 = 6.3$ bar and pressure drop $\Delta_p = 1$ bar
Flow rate	1500 - 4500 l/min
Medium	Compressed air or other neutral gases
Housing	Technopolymer
A	60.5 mm
A1	- mm
В	81.0 mm
F	42.7 mm



Commercial data

Customs tariff number	84818099
Country of origin	IT
eCl@ss 5.1.4	27294206
eCl@ss 9.0	27294206
UNSPSC_Code_v190501	27131607
UNSPSC_CodeDesc_v190501	Air manifolds



SUNTESI: AIR TAKE-OFF



The air take-off is a connecting element that is mounted between two Syntesie modules. The 2-way version, made of metal and having restrained dimensions, has a threaded port upwards and one downwards. The 4-way version, in technopolymer, has a threaded port on each side. This gives or four additional air outlets for use as required. All Syntesie modules come with two threaded ports, one on the front and one on the back, for use as air take-off.





ECHNICAL DATA		AIR TA	KE-OFF, S	SY1	All	r take-of	F, SY2	
/ersion		PA 2-way		PA 4-way	PA 2-wo	ay	PA 4-way	
low rate of the air take-off at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 N		1550		500 - 2000	7000		1500 - 4500	
	scfm	55		18 - 71	248		53 - 160	
Aaximum pressure	bar		15			13 1.3		
	MPa		1.5 217			1.3		
Nin/Max temperature at 10 bar; 1 MPa; 145 psi	psi °C	Even	∠17 n -10 to 50			From -10 to	50	
Veight	g	62		100	75	From - TO Id	306	_
luid	9	02	0		pr other inert gas	es	500	1
	VERGEN						_	
IMENSIONS AND ORDERING CODES OF THE 2-WAY		Code De	scription	ΔB	ſ			
DIMENSIONS AND ORDERING CODES OF THE 2-WAY	-	5610P100 PA	SYI	15.5 1	/8″ 3/8″			
	-	5610P100 PA		15.5 1				
	-	5610P100 PA	SYI	15.5 1	/8″ 3/8″			
	-	5610P100 PA	SYI	15.5 1	/8″ 3/8″			
	-	5610P100 PA	SYI	15.5 1	/8″ 3/8″			

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DIMENSIONS 4 WAY-VERSION SIZE 1 SIZE 2 A1 3/8" 1/2" 3/4" 1" С H (threaded port) 1/8" 1/4" 3/8" 42 60.5 Α н А A1 44 95 95 <u>СН</u>2 В 58 81 11 ā С 44 61 32 36 CH CH2 19 D 70.5 51.5 <u>.</u>¢_ D1 3 47.5 в Ε 33.5 F. 32.2 42.7 G G Hole for M5 screws Hole for M4 screws 1/8″ 1/4″ G Т ┚⋣ 10 Ø 11 1/4" 3/8″ 1 F <u>CH</u> 16 22.5 Q (no. 2 add. air takes-off) 1/8" 1/4" **KEY TO CODE FOR 4-WAY VERSION** UNITS 56 1 1 Ρ 20 1 SYNTESI SIZE THREADED INPUT CONNECTION ELEMENT TYPE THREADED OUTPUT CONNECTION 56 Syntesi 5X Syntesi anti-corrosion 0 Without bushing 0 Without bushing 1 Size 1 P Air take-off 20 4-way
 0
 without busining

 1
 1/8" port

 2
 1/4" port

 3
 3/8" port

 0
 Without bushing

 0
 without bushing

 1
 1/8" port

 2
 1/4" port

 3
 3/8" port

 0
 Without bushing
 Syntesi® AIR TAKE-OFF 2 Size 2 Without build of the second Without build
3 3/8" port
4 1/2" port
5 3/4" port
6 1" port N.B. Besides the below mentioned codes, you can order elements composed at your will according to the key to codes. PURCHASE ORDER CODES HAVING A MORE FREQUENT USE CODES Description Code Code Description AIR INTAKE, 2-way version AIR INTAKE, 4-way version NOTE PA 4-way SY1 without bushing PA 4-way SY1 1/8 PA 4-way SY1 1/4 5610P100 5620P100 PA SY1 5610P200 5611P201 Anti-corrosion version PA SY2 5X 5612P202 Example 5613P203 PA 4-way SY1 3/8 5X11P201 PA 4-way SY1 1/8 anti-corrosion 5620P200 PA 4-way SY2 without bushing 5623P203 PA 4-way SY2 3/8 PA 4-way SY2 1/2 PA 4-way SY2 3/4 PA 4-way SY2 1 5624P204 5625P205 5626P206

<u>C1 44</u>



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 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		$\underbrace{\text{(E)}}_{\text{(I)}} \parallel 3\text{G Ex h} \parallel \text{C T5 Gc} - 10^{\circ}\text{C} < \text{Ta} < 50^{\circ}\text{C}$ $\parallel 3\text{D Ex h} \parallel \text{C T100 °C Dc}$							
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

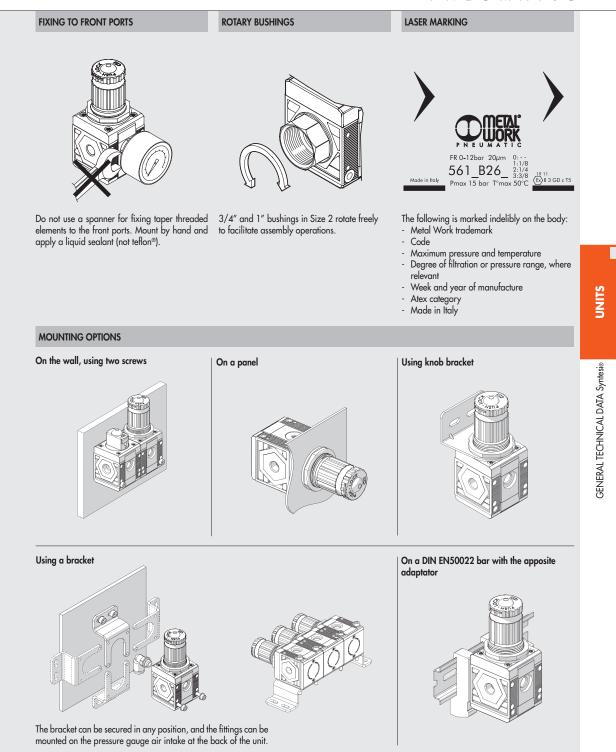
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The various elements of Syntesis 🙆 can be connected to the air feed and delivery circuit using pneumatic nickel brass or passivated aluminium ports 🕲 and can be fixed together using nipples ©.

- 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.

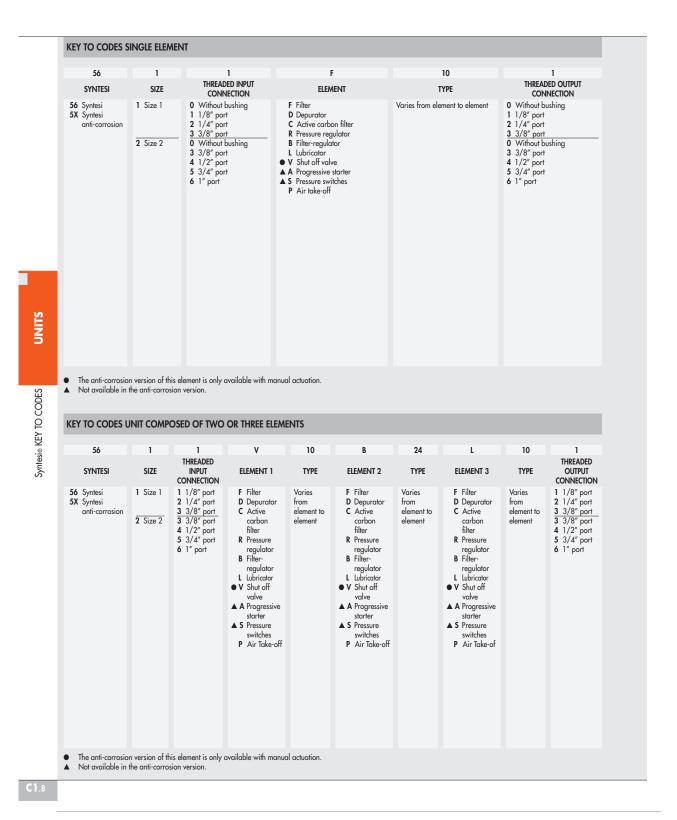
Safety valve (s). The unit can incorporate a series 70 SAFE AIR® safety valve.

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.	
Mounting bracket, size 2, standard and anti-corr.	145659	9200717X	
Adapter for DIN rail, size 1 and size 2	145660	9200718X	
Threaded port bushing, size 2, G 3/8	144691	9210011	
Threaded port bushing, size 2, G 1/2	144692	9210012	
Threaded port bushing, size 2, G 3/4	144693	9210013	
Threaded port bushing, size 2, G 1	144694	9210014	
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	
Fastening screw, size 2	145508	9210031	