

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
FILTER-REGULATOR Syntesi® SY1		FILTER-REGULATOR Syntesi® SY2		
5610B140	FR SY1 5 08 RMSA without bushings	5620B140	FR SY2 5 08 RMSA without bushings	Anti-corrosion version
5610B240	FR SY1 20 08 RMSA without bushings	5620B240	FR SY2 20 08 RMSA without bushings	5X -----
5610B440	FR SY1 5 08 RA without bushings	5620B440	FR SY2 5 08 RA without bushings	Example
5610B540	FR SY1 20 08 RA without bushings	5620B540	FR SY2 20 08 RA without bushings	5X11B141 FR SY1 1/8 5 08 RMSA anti-corrosion
5610B160	FR SY1 5 012 RMSA without bushings	5620B160	FR SY2 5 012 RMSA without bushings	
5610B260	FR SY1 20 012 RMSA without bushings	5620B260	FR SY2 20 012 RMSA without bushings	
5610B460	FR SY1 5 012 RA without bushings	5620B460	FR SY2 5 012 RA without bushings	
5610B560	FR SY1 20 012 RA without bushings	5620B560	FR SY2 20 012 RA without bushings	
5611B141	FR SY1 1/8 5 08 RMSA	5623B143	FR SY2 3/8 5 08 RMSA	
5611B241	FR SY1 1/8 20 08 RMSA	5623B243	FR SY2 3/8 20 08 RMSA	
5611B441	FR SY1 1/8 5 08 RA	5623B443	FR SY2 3/8 5 08 RA	
5611B541	FR SY1 1/8 20 08 RA	5623B543	FR SY2 3/8 20 08 RA	
5611B161	FR SY1 1/8 5 012 RMSA	5623B163	FR SY2 3/8 5 012 RMSA	
5611B261	FR SY1 1/8 20 012 RMSA	5623B263	FR SY2 3/8 20 012 RMSA	
5611B461	FR SY1 1/8 5 012 RA	5623B463	FR SY2 3/8 5 012 RA	
5611B561	FR SY1 1/8 20 012 RA	5623B563	FR SY2 3/8 20 012 RA	
5612B142	FR SY1 1/4 5 08 RMSA	5624B144	FR SY2 1/2 5 08 RMSA	
5612B242	FR SY1 1/4 20 08 RMSA	5624B244	FR SY2 1/2 20 08 RMSA	
5612B442	FR SY1 1/4 5 08 RA	5624B444	FR SY2 1/2 5 08 RA	
5612B542	FR SY1 1/4 20 08 RA	5624B544	FR SY2 1/2 20 08 RA	
5612B162	FR SY1 1/4 5 012 RMSA	5624B164	FR SY2 1/2 5 012 RMSA	
5612B262	FR SY1 1/4 20 012 RMSA	5624B264	FR SY2 1/2 20 012 RMSA	
5612B462	FR SY1 1/4 5 012 RA	5624B464	FR SY2 1/2 5 012 RA	
5612B562	FR SY1 1/4 20 012 RA	5624B564	FR SY2 1/2 20 012 RA	
5613B143	FR SY1 3/8 5 08 RMSA	5625B145	FR SY2 3/4 5 08 RMSA	
5613B243	FR SY1 3/8 20 08 RMSA	5625B245	FR SY2 3/4 20 08 RMSA	
5613B443	FR SY1 3/8 5 08 RA	5625B445	FR SY2 3/4 5 08 RA	
5613B543	FR SY1 3/8 20 08 RA	5625B545	FR SY2 3/4 20 08 RA	
5613B163	FR SY1 3/8 5 012 RMSA	5625B165	FR SY2 3/4 5 012 RMSA	
5613B263	FR SY1 3/8 20 012 RMSA	5625B265	FR SY2 3/4 20 012 RMSA	
5613B463	FR SY1 3/8 5 012 RA	5625B465	FR SY2 3/4 5 012 RA	
5613B563	FR SY1 3/8 20 012 RA	5625B565	FR SY2 3/4 20 012 RA	
		5626B146	FR SY2 1 5 08 RMSA	
		5626B246	FR SY2 1 20 08 RMSA	
		5626B446	FR SY2 1 5 08 RA	
		5626B546	FR SY2 1 20 08 RA	
		5626B166	FR SY2 1 5 012 RMSA	
		5626B266	FR SY2 1 20 012 RMSA	
		5626B466	FR SY2 1 5 012 RA	
		5626B566	FR SY2 1 20 012 RA	

NOTES

The pneumatic lubricator is the simplest way of efficiently lubricating the actuators linked to a circuit. As compressed air flows towards the lubricator, it encounters a flexible diaphragm which partially blocks the way, creating a small pressure difference between the inlet and outlet air. Being at the higher pressure, the oil in the bowl is pumped through a tube with a filter towards the regulation pin.

The quantity of oil can be metered accurately since the drops can be viewed through the transparent dome.

Filling with oil must take place in the absence of pressure, unscrewing the plug next to the dome. On the front and back there is a port (1/8" for size 1 and 1/4" for size 2) that can be used with pressure gauges, pressure switches or as an additional air intake.

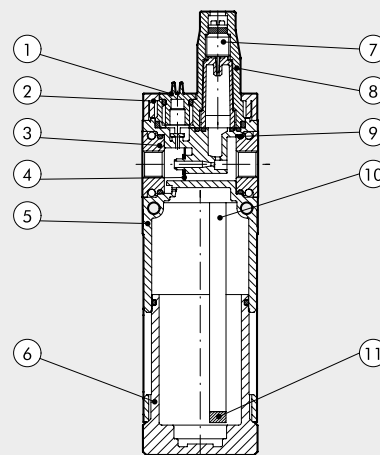


TECHNICAL DATA	LUB SY1			LUB SY2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded port	Oil mist						
Type of lubrication	Manual filling from the top						
Version							
Max. input pressure	bar			bar			
	15			13			
	MPa			MPa			
	1.5			1.3			
	psi			psi			
	217			188			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	Nl/min	1300	1700	2200	2300	3900	3900
	scfm	46	60	78	81	138	138
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min	1600	3000	3650	3650	6100	6100
	scfm	57	106	129	129	216	216
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C			°C			
	From -10 to +50			From -10 to +50			
Weight	g			g			
	185	180	171	480	453	449	437
Fluid	Compressed air or other inert gases						
Quantity of filled oil	cm ³			cm ³			
	60			130			
Mounting position	Vertical			Vertical			
Port for additional air take-off	1/8", front and rear, lubricated air			1/4", front and rear, lubricated air			
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min	450		800			
	scfm	16		53			
Wall fixing screws	No. 2 M4 screws			No. 2 M5 screws			
Recommended oils	ISO and UNI FD22 (Energol HPL; Spinesso; Mobil DTE; Tellus oil)						
Notes on use	Install the lubricator as close as possible to the point of use. Fill the lubricator bowl with oil before pressurizing the system. Do not use cleaning oils, brake fluid oils or solvents in general. For the best lubrication results, set the drip rate to one drop for 300-600 Nl.						

UNITS
Syntesi[®] LUBRICATOR

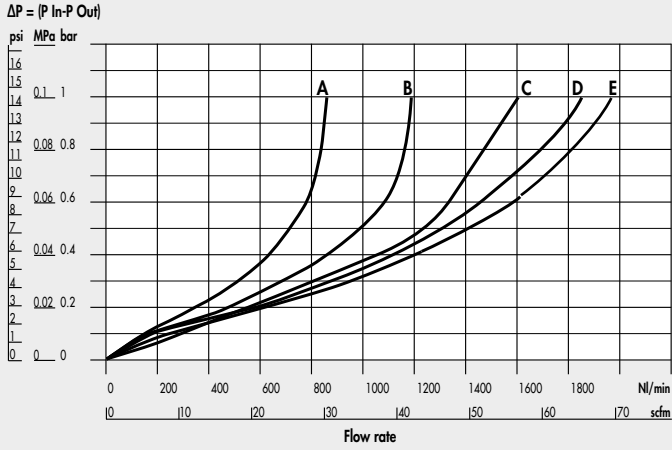
COMPONENTS

- ① Technopolymer oil filling plug
- ② Technopolymer flange
- ③ IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- ④ Venturi NBR diaphragm
- ⑤ Technopolymer body
- ⑥ Clear technopolymer bowl
- ⑦ OT 58 brass oil flow regulation needle
- ⑧ Clear technopolymer cover
- ⑨ NBR o-ring gasket
- ⑩ Rilsan[®] oil suction pipe
- ⑪ Oil filter

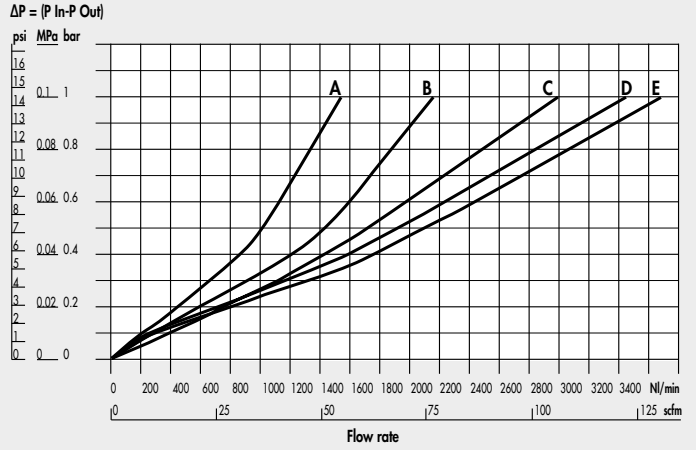


FLOW CHARTS

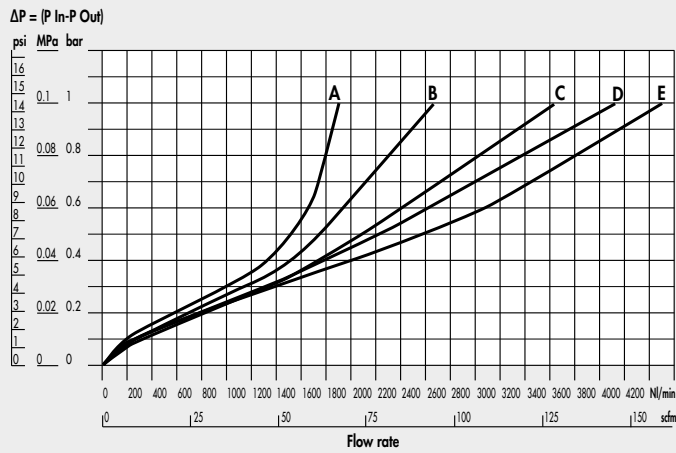
LUB Syntesi® SY1 1/8"



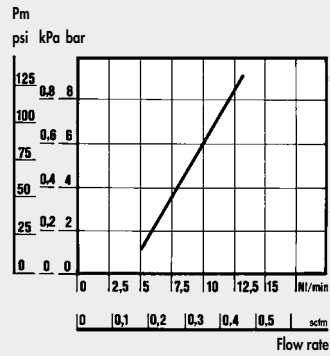
LUB Syntesi® SY1 1/4"



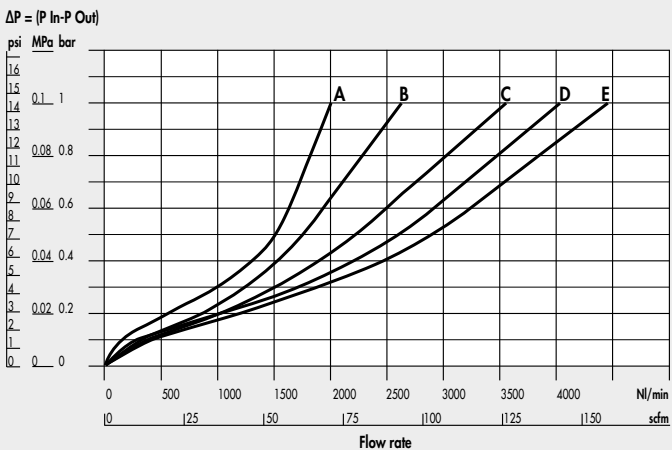
LUB Syntesi® SY1 3/8"



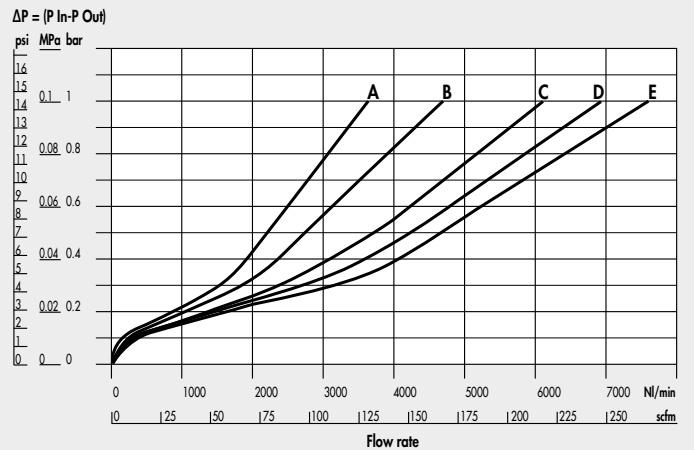
Minimum operating flow chart SY1



LUB Syntesi® SY2 3/8"



LUB Syntesi® SY2 1/2"



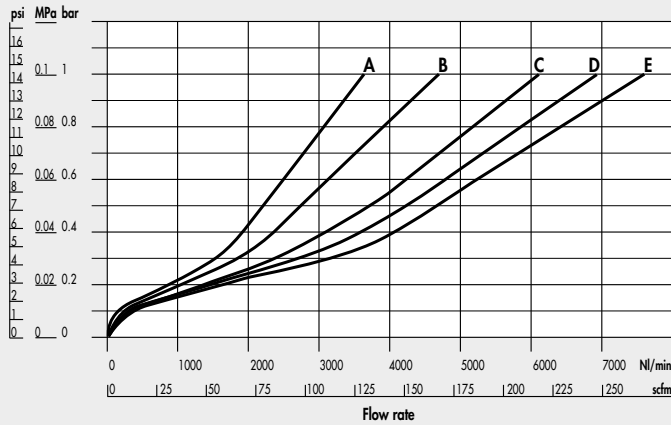
A = 2.5 bar - 0.25 MPa - 36 psi
 B = 4 bar - 0.4 MPa - 58 psi

C = 6.3 bar - 0.63 MPa - 91 psi
 D = 8 bar - 0.8 MPa - 116 psi

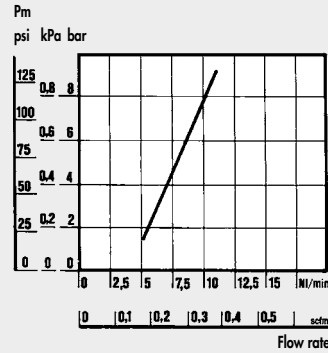
E = 10 bar - 1 MPa - 145 psi

LUB Syntesi® SY2 3/4" - 1"

$\Delta P = (P_{in} - P_{out})$



Minimum operating flow chart SY2

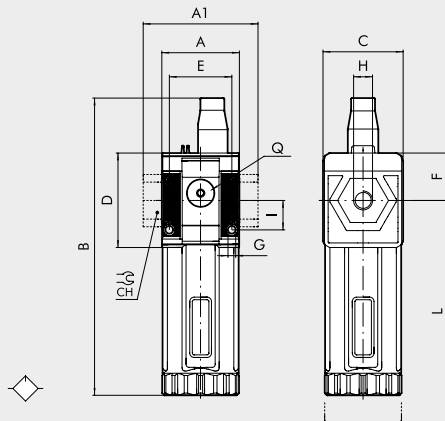


A = 2.5 bar - 0.25 MPa - 36 psi
 B = 4 bar - 0.4 MPa - 58 psi

C = 6.3 bar - 0.63 MPa - 91 psi
 D = 8 bar - 0.8 MPa - 116 psi

E = 10 bar - 1 MPa - 145 psi

DIMENSIONS



	SIZE 1			SIZE 2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	42					60.5	
A1	-	-	44	-	-	95	95
B	162					200.5	
C	44					61	
CH	-			-	-	32	36
D	51.5					70.5	
E	33.5					47.5	
F	25.8					38.2	
G	Hole for M4 screws			Hole for M5 screws			
I	16					22.5	
L	158					193	
Q (no. 2 additional air takes-off)	1/8"					1/4"	

KEY TO CODES

56	1	1	L	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	OIL FILLING	THREADED OUTPUT CONNECTION
56 Syntesi	1 Size 1	0 Without bushing	L Lubricator	10 Manual filling from the top	0 Without bushing
5X Syntesi anti-corrosion		1 1/8" port			1 1/8" port
		2 1/4" port			2 1/4" port
		3 3/8" port			3 3/8" port
	2 Size 2	0 Without bushing			0 Without bushing
		3 3/8" port			3 3/8" port
		4 1/2" port			4 1/2" port
		5 3/4" port			5 3/4" port
		6 1" port			6 1" port

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
LUBRIFICATORE Syntesi® SY1		LUBRIFICATORE Syntesi® SY2		Anti-corrosion version
5610L100	LUB SY1 without bushings	5620L100	LUB SY2 without bushings	5X_____
5611L101	LUB SY1 1/8	5623L103	LUB SY2 3/8	Example
5612L102	LUB SY1 1/4	5624L104	LUB SY2 1/2	5X11L101 LUB SY1 1/8 anti-corrosion
5613L103	LUB SY1 3/8	5625L105	LUB SY2 3/4	
		5626L106	LUB SY2 1	

SYNTESI® 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 $\varnothing 7$ 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.

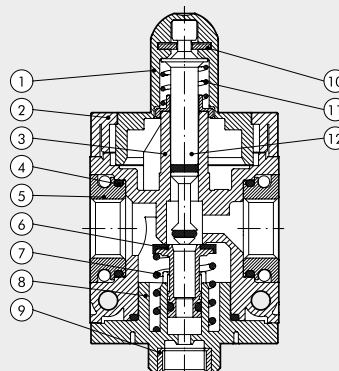


TECHNICAL DATA

TECHNICAL DATA	V3V SY1			V3V SY2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
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 - pneumatic - Elpn - Elpn pilot-assisted			Manual - Pneumatic - C-nomo elpn - C-nomo elpn pilot-assisted			
Max inlet pressure for pneumatic and solenoid pilot-assisted versions	bar 15			bar 13			
	MPa 1.5			MPa 1.3			
	psi 217			psi 188			
Inlet pressure for solenoid version	bar 3 - 10			bar 3 - 10			
	MPa 0.3 - 1			MPa 0.3 - 1			
	psi 43 - 145			psi 43 - 145			
Pilot pressure for pneumatic and solenoid pilot-assisted versions	bar 3 - 10			bar 3 - 10			
	MPa 0.3 - 1			MPa 0.3 - 1			
	psi 43 - 145			psi 43 - 145			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	Nl/min 800	Nl/min 1000	Nl/min 1100	2800	3000	3000	
	scfm 28	scfm 35	scfm 39	99	106	106	
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min 1100	Nl/min 1500	Nl/min 1600	3600	4000	4000	
	scfm 39	scfm 53	scfm 57	127	141.5	141.5	
Exhaust flow rate at 6.3 bar (0.63 MPa; 91 psi)	Nl/min 500			Nl/min 2000			
	scfm 18			scfm 71			
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C From -10 to +50			°C From -10 to +50			
Padlockable knob	Included			Included			
Weight	g 197	g 192	g 183	g 476	g 449	g 445	g 433
Fluid	Compressed air or other inert gases						
Mounting position	In any position						
Additional air take-off, for pressure gauges or fittings	1/8", front and rear			1/4", front and rear			
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min 500			Nl/min 1500			
	scfm 18			scfm 53			
Wall fixing screws	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						

COMPONENTS

- ① Technopolymer knob
- ② Technopolymer hinge
- ③ Technopolymer body
- ④ NBR o-ring gasket
- ⑤ IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- ⑥ OT58 brass valve with NBR vulcanized gasket
- ⑦ Stainless steel valve spring
- ⑧ Technopolymer plug
- ⑨ OT58 brass threaded insert
- ⑩ Zinc-plated steel plate for knob locking (stainless steel for anti-corrosion version)
- ⑪ Stainless steel spring stem recovery
- ⑫ OT58 brass stem



V10 - Steel plate with $\varnothing 3.5$ holes for locking with 2 padlocks (SY1) or 3 padlocks (SY2).

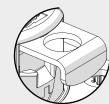


SY1



SY2

V11 - Steel plate with a single $\varnothing 7$ hole for docking with a single padlock (compatible with most of the padlocks available from the trade with a $\varnothing 5$ mm arch).



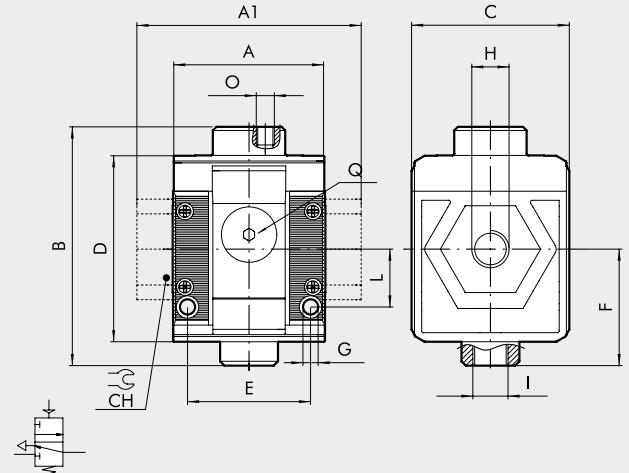
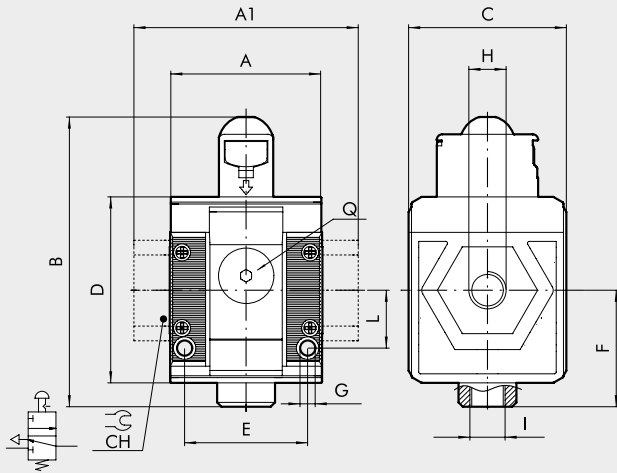
DIMENSIONS

MANUAL

SY1-SY2

PNEUMATIC

SY1-SY2

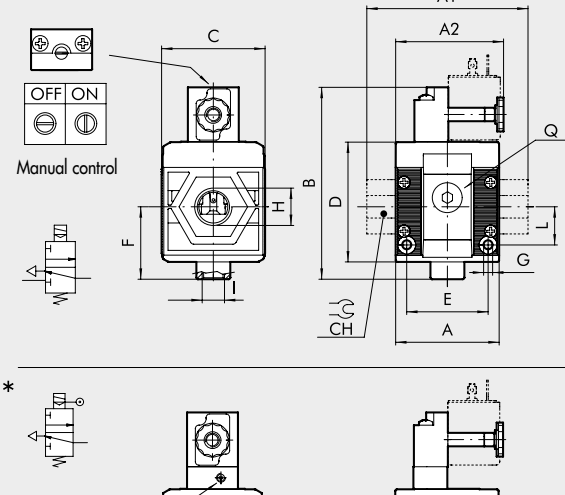
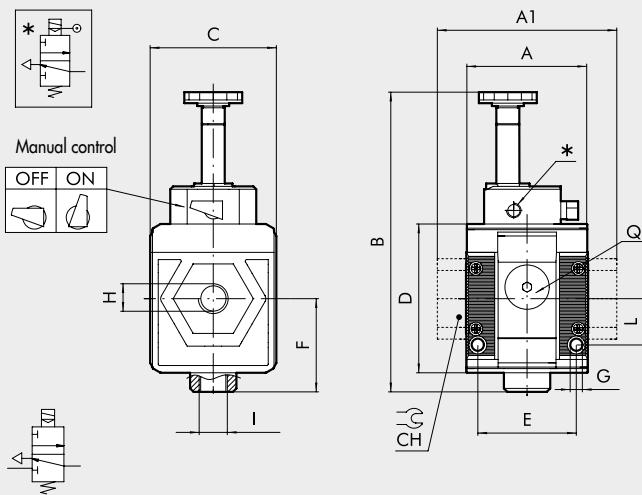


SOLENOID/SOLENOID PILOT-ASSISTED*

SY1

CNOMO SOLENOID / CNOMO SOLENOID PILOT-ASSISTED*

SY2



N.B.: Before assembling other Syntesi elements after the V3V, remember to mount the coil on the V3V itself.

	MANUAL				PNEUMATIC				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	-	44	-	-	60.5	-	42	-	-	60.5	-	-	95	95	
A1	-	-	44	-	-	95	95	-	-	44	-	-	95	95	-	-	44	-	-	95	95
A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-
B	80	-	-	109	-	-	-	66	-	-	94	-	-	-	104	-	-	-	-	-	113
Cnomo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126
Cnomo pilot ass.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
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"	-	-	1/4"
L	16	-	-	22.5	-	-	-	16	-	-	22.5	-	-	-	16	-	-	22.5	-	-	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"	-	-	1/4"
** Pilot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M5	-	-	-	-	-	M5

KEY TO CODES

56	1	1	V	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	TYPE	THREADED OUTPUT CONNECTION
56 Syntesi 5X Syntesi anti-corrosion	1 Size 1 <hr/> 2 Size 2	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port <hr/> 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	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port <hr/> 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.

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Code	Description	Code	Description	NOTE
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	5620V200	V3V SY2 pneumatic without bushings	
5611V201	V3V SY1 1/8 pneumatic	5623V203	V3V SY2 3/8 pneumatic	
5612V202	V3V SY1 1/4 pneumatic	5624V204	V3V SY2 1/2 pneumatic	
5613V203	V3V SY1 3/8 pneumatic	5625V205	V3V SY2 3/4 pneumatic	
		5626V206	V3V SY2 1 pneumatic	
5610V300	V3V SY1 elpn pilot-assisted without bushings	5620V300	V3V SY2 elpn pilot-assisted Cnomo without bushings	
5611V301	V3V SY1 1/8 elpn pilot-assisted	5623V303	V3V SY2 3/8 elpn pilot-assisted Cnomo	
5612V302	V3V SY1 1/4 elpn pilot-assisted	5624V304	V3V SY2 1/2 elpn pilot-assisted Cnomo	
5613V303	V3V SY1 3/8 elpn pilot-assisted	5625V305	V3V SY2 3/4 elpn pilot-assisted Cnomo	
		5626V306	V3V SY2 1 elpn pilot-assisted Cnomo	
5610V700	V3V SY1 elpn without bushings	5620V700	V3V SY2 elpn without bushings	
5611V701	V3V SY1 1/8 elpn	5623V703	V3V SY2 3/8 elpn	
5612V702	V3V SY1 1/4 elpn	5624V704	V3V SY2 1/2 elpn	
5613V703	V3V SY1 3/8 elpn	5625V705	V3V SY2 3/4 elpn	
		5626V706	V3V SY2 1 elpn	

NOTES

UNITS

Syntesi® SHUT-OFF VALVE

SYNTESI® PROGRESSIVE STARTER



The progressive starter is a pneumatic component that allows air enter the circuit gradually, thereby avoiding excessive pressure bursts.

A sophisticated system of internal valves allows two separate stages of operation. During the first stage, a quantity of air that can be regulated via a pin flows from the APR. The second stage starts when the downstream pressure reached 40 to 60% of the upstream pressure, during which full-port flow is achieved. When the mechanism is deactivated, the air flow is cut off and the downstream circuit is relieved.

The progressive starter is particularly useful on machinery where it is important to prevent actuators from moving rapidly and out of control, or where, for safety reasons, the air in-feed needs to be gentle and gradual. It, however, there is a major leak in the downstream system, it may never be possible to achieve the pressure required to open the valve completely.



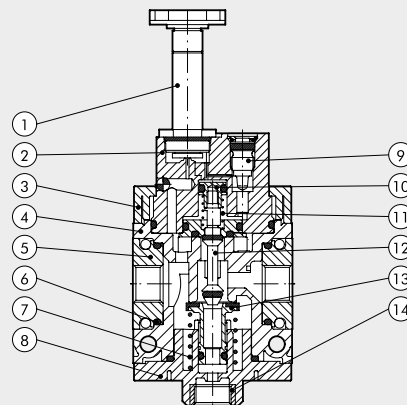
TECHNICAL DATA	APR SY1			APR SY2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded port	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded discharge port		1/8"			1/4"		
Type of control	Solenoid			Solenoid - C-nomo solenoid			
Inlet pressure	bar 3 - 10			bar 3 - 10			
	MPa 0.3 - 1			MPa 0.3 - 1			
	psi 43 - 145			psi 43 - 145			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	Nl/min 900	Nl/min 1000	Nl/min 1100	Nl/min 2800	Nl/min 3600	Nl/min 3600	
	scfm 32	scfm 39	scfm 39	scfm 99	scfm 127	scfm 127	
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min 1250	Nl/min 1500	Nl/min 1600	Nl/min 4400	Nl/min 4800	Nl/min 4800	
	scfm 44	scfm 53	scfm 57	scfm 156	scfm 170	scfm 170	
Drain flow rate at 6.3 bar (0.63 MPa; 91 psi)	Nl/min 500	Nl/min 500	Nl/min 500	Nl/min 2700	Nl/min 2700	Nl/min 2700	
	scfm 18	scfm 18	scfm 18	scfm 96	scfm 96	scfm 96	
Maximum flow rate start-up, at 6.3 bar (0.63 MPa; 91 psi) with regulation pin completely unscrewed	Nl/min 170	Nl/min 170	Nl/min 170	Nl/min 700	Nl/min 700	Nl/min 700	
	scfm 6	scfm 6	scfm 6	scfm 25	scfm 25	scfm 25	
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C From -10 to +50			°C From -10 to +50			
Weight	g 203	g 198	g 189	g 503	g 476	g 472	g 460
Fluid	Compressed air or other inert gases						
Mounting position	In any position						
Additional air take-off, for pressure gauges or fittings	1/8", front and rear			1/4", front and rear			
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min 500			Nl/min 1500			
	scfm 18			scfm 53			
Wall fixing screws	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	Bistable: horizontal = OFF, vertical = ON						

UNITS

Syntesi® PROGRESSIVE STARTER

COMPONENTS

- ① Sleeve ø8
- ② Anodized aluminium upper block
- ③ Technopolymer flange
- ④ Technopolymer body
- ⑤ IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- ⑥ O-ring NBR gasket
- ⑦ Stainless steel valve spring
- ⑧ Technopolymer bottom plug
- ⑨ OT58 brass progressive start regulation pin
- ⑩ OT58 brass internal valve
- ⑪ Stainless steel spring stem recoveryng
- ⑫ OT58 brass stem
- ⑬ OT58 brass main valve with vulcanized gasket
- ⑭ OT58 brass threaded insert



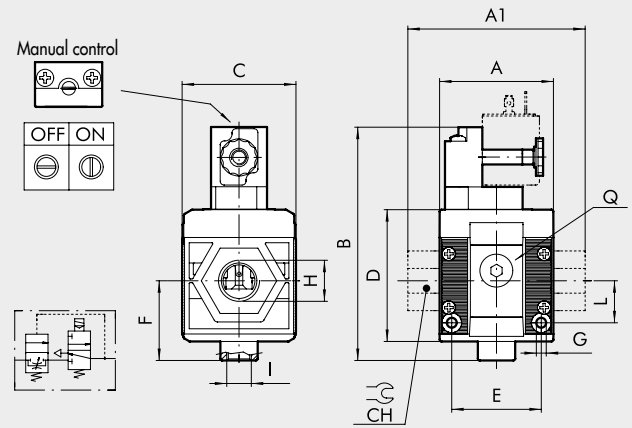
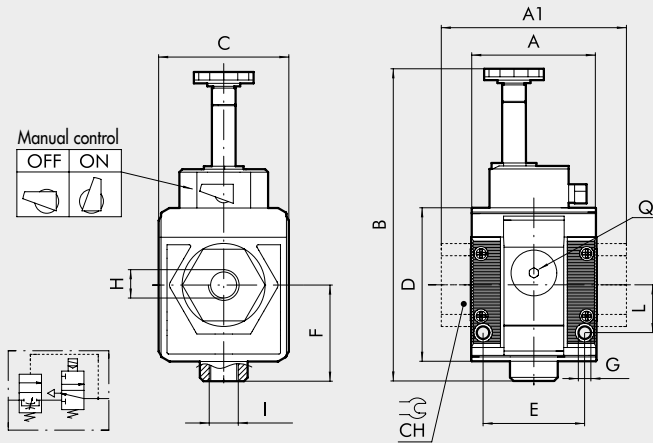
DIMENSIONS

SOLENOID

SY1-SY2

CNOMO SOLENOID

SY2



N.B.: Before assembling other Syntesi elements after the APR, remember to mount the coil on the APR itself.

	SOLENOID SIZE 1			SOLENOID / CNOMO SOLENOID SIZE 2			
	H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"
A		42				60.5	
A1	-	-	44	-	-	95	95
B		105				131	
Cnomo		-				125	
		44				61	
CH		-		-	-	32	36
D		51.5				70.5	
E		33.5				47.5	
F		32.2				42.7	
G		Hole for M4 screws				Hole for M5 screws	
I (exhaust)		1/8"				1/4"	
L		16				22.5	
Q (no. 2 additional air takes-off)		1/8"				1/4"	

KEY TO CODES

56	1	1	A	70	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	TYPE	THREADED OUTPUT CONNECTION
56 Syntesi	1 Size 1	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port	A Progressive starter APR	70 Solenoid * 71 Cnomo solenoid	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port
	2 Size 2	0 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port			0 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

* Only for size 2

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	Code	Description
Syntesi® SY1 PROGRESSIVE STARTER			Syntesi® SY2 PROGRESSIVE STARTER		
5610A700	APR SY1 elpn without bushings	5620A700	APR SY2 elpn without bushings	5620A710	APR SY2 elpn Cnomo without bushings
5611A701	APR SY1 1/8 elpn	5623A703	APR SY2 3/8 elpn	5623A713	APR SY2 3/8 elpn Cnomo
5612A702	APR SY1 1/4 elpn	5624A704	APR SY2 1/2 elpn	5624A714	APR SY2 1/2 elpn Cnomo
5613A703	APR SY1 3/8 elpn	5625A705	APR SY2 3/4 elpn	5625A715	APR SY2 3/4 elpn Cnomo
		5626A706	APR SY2 1 elpn	5626A716	APR SY2 1 elpn Cnomo

SYNTESI® PRESSURE SWITCHES



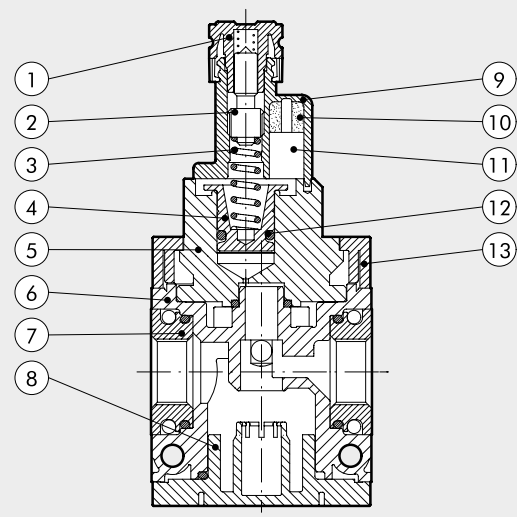
Syntesi® pressure switches feature a high degree of miniaturisation and a modern attractive design. As they are extremely modular, the Syntesi® series can be installed facing up or down. They come ready assembled with a 2-metre cable or an M8 connector with a 300-mm cable. The contact is the switching type, which means it can be normally open or normally closed. It can be regulated via a knurled push-lock handle. 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 or as an additional air intake.



TECHNICAL DATA	SY1 PRESSURE SWITCHES			SY2 PRESSURE SWITCHES				
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"	
Threaded port								
Adjustable pressure interval	bar 0.5 to 10			bar 0.5 to 10				
Hysteresis (not adjustable)	bar From 0.4 to 0.8 (See diagram)							
Maximum pressure	bar 15			bar 13				
	MPa 1.5			MPa 1.3				
	psi 217			psi 188				
Min/Max temperature at 10 bar; 1 MPa; 145 psi	°C From -10 to 50			°C From -10 to 50				
Maximum current	A 2			A 2				
Maximum voltage	V 250			V 250				
Outside diameter of cable	mm 4.9			mm 4.9				
Number of wires and cross section	3 x 0.5 mm ²			3 x 0.5 mm ²				
Contacts	Normally-Open (NO) and Normally-Closed (NC)							
Protection	IP65			IP65				
Number of switchings	5 x 10 ⁶			5 x 10 ⁶				
Fluid	Filtered lubricated or unlubricated compressed air. Lubrication, if used, must be continuous							
Mounting position	In any position							
Additional air take-off, for pressure gauges or fittings	1/8", front and rear			1/4", front and rear				
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	NL/min 500			NL/min 1500				
	scfm 18			scfm 53				
Wall fixing screws	No. 2 M4 screws			No. 2 M5 screws				
Weight	g	255	250	241	443	416	412	400

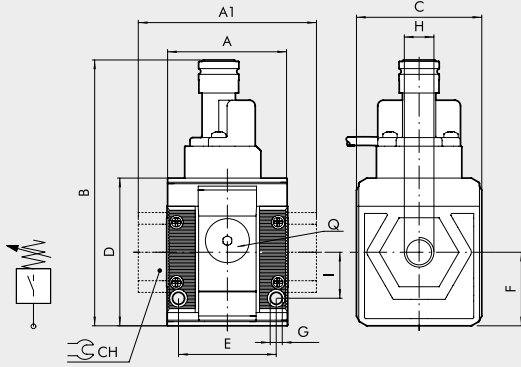
COMPONENTS

- ① Technopolymer adjusting "push lock" handle
- ② OT58 brass adjusting screw
- ③ Steel piston spring
- ④ OT58 brass piston
- ⑤ Aluminium top plug
- ⑥ Technopolymer body
- ⑦ IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- ⑧ Technopolymer bottom plug
- ⑨ Technopolymer pressure switch body
- ⑩ Resin finish for IP65
- ⑪ Electrical contact
- ⑫ O-ring NBR gasket
- ⑬ Technopolymer flange



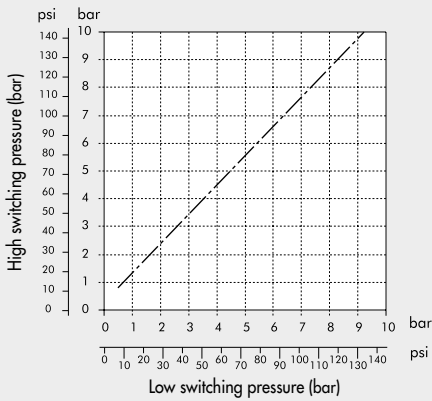
UNITS
 Syntesi® PRESSURE SWITCHES

DIMENSIONS



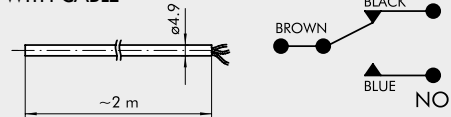
	SIZE 1			SIZE 2			
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	42			60.5			
A1	-	-	44	-	-	95	95
B	93			101			
C	44			61			
CH	-			-	-	32	36
D	51.5			70.5			
E	33.5			47.5			
F	25.6			32.5			
G	Hole for M4 screws			Hole for M5 screws			
I	16			22.5			
Q (no. 2 additional air takes-off)	1/8"			1/4"			

HYSTERESIS GRAPH

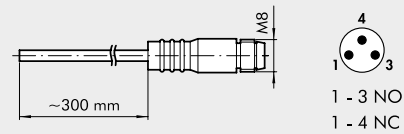


WIRING DIAGRAM

VERSION WITH CABLE



VERSION WITH M8 CONNECTOR



KEY TO CODES

56	1	1	S	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	TYPE	THREADED OUTPUT CONNECTION
56 Syntesi	1 Size 1	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port	S Pressure switches	10 2 m cable 20 300 mm cable with M8 connector	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port
	2 Size 2	0 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port			0 Without bushing 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

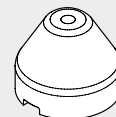
PURCHASE ORDER CODES HAVING A MORE FREQUENT USE

N.B. Besides the below mentioned codes, you can order elements composed at your will according to the key to codes.

Code	Description
Syntesi® SY1 PRESSURE SWITCHES	
5610S100	Pressure switch 2 m cable SY1 without bushings
5611S101	Pressure switch 2 m cable SY1 1/8
5612S102	Pressure switch 2 m cable SY1 1/4
5613S103	Pressure switch 2 m cable SY1 3/8
<hr/>	
5610S200	Pressure switch M8 SY1 connector without bushings
5611S201	Pressure switch M8 connector SY1 1/8
5612S202	Pressure switch M8 connector SY1 1/4
5613S203	Pressure switch M8 connector SY1 3/8

Code	Description
Syntesi® SY2 PRESSURE SWITCHES	
5620S100	Pressure switch 2 m cable SY2 without bushings
5623S103	Pressure switch 2 m cable SY2 3/8
5624S104	Pressure switch 2 m cable SY2 1/2
5625S105	Pressure switch 2 m cable SY2 3/4
5626S106	Pressure switch 2 m cable SY2 1
<hr/>	
5620S200	Pressure switch M8 SY2 connector without bushings
5623S203	Pressure switch M8 connector SY2 3/8
5624S204	Pressure switch M8 connector SY2 1/2
5625S205	Pressure switch M8 connector SY2 3/4
5626S206	Pressure switch M8 connector SY2 1

ACCESSOIRES: SECURITY KNOB



Code	Description
9200703	Security knob APR / pressure switch

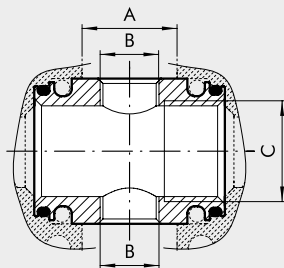
NOTE: Pull outwards to remove the knob from the pressure switch on the unit. Insert the security knob and regulate the pressure switch. Then press the handle firmly to lock it in position. If the pressure switch needs to be reset, remove the security knob by forcing it laterally with a screwdriver.

The air take-off is a connecting element that is mounted between two Syntesi® 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 Syntesi® modules come with two threaded ports, one on the front and one on the back, for use as air take-off.



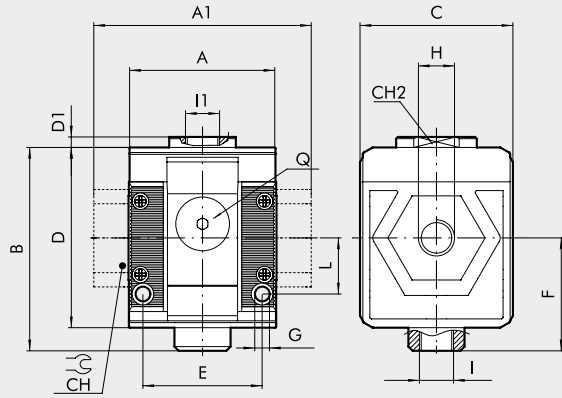
TECHNICAL DATA	AIR TAKE-OFF, SY1		AIR TAKE-OFF, SY2	
	PA 2-way	PA 4-way	PA 2-way	PA 4-way
Version	1550	500 - 2000	7000	1500 - 4500
Flow rate of the air take-off at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi) NI/min	55	18 - 71	248	53 - 160
Maximum pressure	15		13	
	1.5		1.3	
	217		188	
Min/Max temperature at 10 bar; 1 MPa; 145 psi	From -10 to 50		From -10 to 50	
Weight	62	100	75	306
Fluid	Compressed air or other inert gases			

DIMENSIONS AND ORDERING CODES OF THE 2-WAY VERSION



Code	Description	A	B	C
5610P100	PA SY1	15.5	1/8"	3/8"
5620P100	PA SY2	27	3/8"	1/2"

DIMENSIONS 4 WAY-VERSION



	SIZE 1			SIZE 2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A		42				60.5	
A1	-	-	44	-	-	95	95
B		58				81	
C		44				61	
CH		-		-	-	32	36
CH2		19				-	
D		51.5				70.5	
D1		3				-	
E		33.5				47.5	
F		32.2				42.7	
G		Hole for M4 screws			Hole for M5 screws		
I		1/8"				1/4"	
I1		1/4"				3/8"	
L		16				22.5	
Q (no. 2 add. air takes-off)		1/8"				1/4"	

KEY TO CODE FOR 4-WAY VERSION

56	1	1	P	20	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	TYPE	THREADED OUTPUT CONNECTION
56 Syntesi 5X Syntesi anti-corrosion	1 Size 1 2 Size 2	0 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	P Air take-off	20 4-way	0 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

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

Code	Description	Code	Description	NOTE
AIR INTAKE, 2-way version		AIR INTAKE, 4-way version		NOTE Anti-corrosion version 5X ----- Example 5X11P201 PA 4-way SY1 1/8 anti-corrosion
5610P100	PA SY1	5610P200	PA 4-way SY1 without bushing	
5620P100	PA SY2	5611P201	PA 4-way SY1 1/8	
		5612P202	PA 4-way SY1 1/4	
		5613P203	PA 4-way SY1 3/8	
		5620P200	PA 4-way SY2 without bushing	
		5623P203	PA 4-way SY2 3/8	
		5624P204	PA 4-way SY2 1/2	
		5625P205	PA 4-way SY2 3/4	
		5626P206	PA 4-way SY2 1	

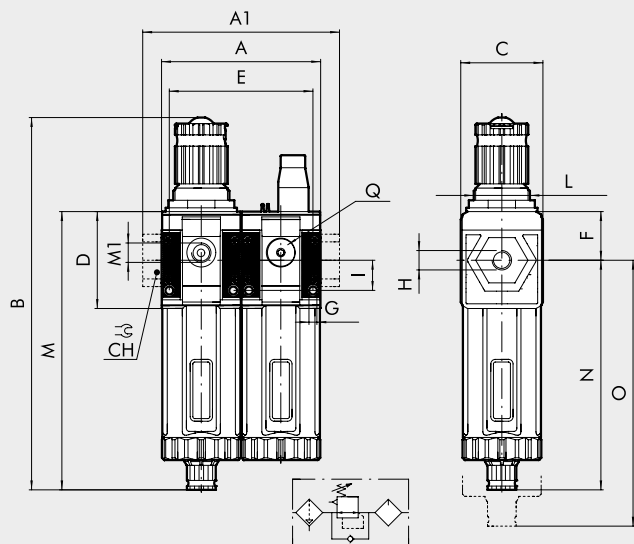
For full details and list of components refer to the sections about filter-regulator and the lubricator.



TECHNICAL DATA	FR + LUB SY1			FR + LUB SY2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded port							
Degree of filtration	5 (yellow) - output air purity class ISO8573-1: 3.7.- 20 (white) - output air purity class ISO8573-1: 4.7.- 50 (blue) - output air purity class ISO8573-1: 5.7.-						
Max. inlet pressure	15			13			
	1.5			1.3			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	217			188			
	350			1200			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	12			42.5			
	1400			4000			
Relief valve flow rate at 6.3 bar (0.63 MPa; 91 psi)	50			141.5			
	70			100			
Min/max temperature at 10 bar; 1 MPa; 145 psi	2.5			3.5			
Padlockable knob	From -10 to +50			From -10 to +50			
Upstream pressure compensation	Included						
Weight	Included, via balanced valve						
Fluid	414	409	400	1074	1047	1043	1031
Mounting position	Vertical			Vertical			
Additional air take-off, for pressure gauges or fittings	1/8", front and rear			1/4", front and rear			
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	500 (FR) - 450 (LUB)			1400 (FR) - 800 (LUB)			
	18 (FR) - 16 (LUB)			49.5 (FR) - 28 (LUB)			
Filter bowl capacity (condensate)	30			70			
Quantity of filled oil	60			130			
Condensate drain	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port. SAC: automatic drain with condensate discharge. Operates by pressure drop - requires variable air take-offs. Note: the maximum input pressure for the RA version must not exceed 10 bar						
Recommended oils	ISO and UNI FD22 (Energol HPL; Spinesso; Mobil DTE; Tellus oil)						
Wall fixing screws	No. 2 M4 screws			No. 2 M5 screws			

UNITS
FR + LUB Syntesi®

DIMENSIONS



	SIZE 1			SIZE 2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	84			121			
A1	-	-	86	-	-	156	156
B	RMSA 198			246			
	RA/SAC 202			250			
C	44			61			
CH	-			-	-	32	36
D	51.5			70.5			
E	75.3			108			
F	25.8			38.2			
G	Hole for M4 screws			Hole for M5 screws			
I	16			22.5			
L	M30x1.5			M38x2			
M	RMSA 148			178			
	RA/SAC 152			182			
M1 (pressure gauge port)	1/8"			1/4"			
N	RMSA 122.2			139.8			
	RA/SAC 126.2			143.8			
O	RMSA 202			245			
	RA/SAC 206			249			
Q (no. 2 additional air takes-off)	1/8"			1/4"			

KEY TO CODES

56	1	1	B	24	L	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	DEGREE OF FILTRATION, TYPE OF CONDENSATE DRAIN AND SETTING RANGE	ELEMENT	OIL FILLING	THREADED OUTPUT CONNECTION
56 Syntesi 5X Syntesi anti-corrosion	1 Size 1 2 Size 2	1 1/8" port 2 1/4" port 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port	B Filter-regulator	<ul style="list-style-type: none"> ● 10 5 µm, RMSA, 0 to 2 bar ● 20 20 µm, RMSA, 0 to 2 bar ● 30 50 µm, RMSA, 0 to 2 bar ● 40 5 µm, RA, 0 to 2 bar ● 50 20 µm, RA, 0 to 2 bar ● 60 50 µm, RA, 0 to 2 bar ● 11 5 µm, SAC, 0 to 2 bar ● 21 20 µm, SAC, 0 to 2 bar ● 31 50 µm, SAC, 0 to 2 bar ● 12 5 µm, RMSA, 0 to 4 bar ● 22 20 µm, RMSA, 0 to 4 bar ● 32 50 µm, RMSA, 0 to 4 bar ● 42 5 µm, RA, 0 to 4 bar ● 52 20 µm, RA, 0 to 4 bar ● 62 50 µm, RA, 0 to 4 bar ● 13 5 µm, SAC, 0 to 4 bar ● 23 20 µm, SAC, 0 to 4 bar ● 33 50 µm, SAC, 0 to 4 bar 14 5 µm, RMSA, 0 to 8 bar 24 20 µm, RMSA, 0 to 8 bar 34 50 µm, RMSA, 0 to 8 bar 44 5 µm, RA, 0 to 8 bar 54 20 µm, RA, 0 to 8 bar 64 50 µm, RA, 0 to 8 bar 15 5 µm, SAC, 0 to 8 bar 25 20 µm, SAC, 0 to 8 bar 35 50 µm, SAC, 0 to 8 bar 16 5 µm, RMSA, 0 to 12 bar 26 20 µm, RMSA, 0 to 12 bar 36 50 µm, RMSA, 0 to 12 bar 46 5 µm, RA, 0 to 12 bar 56 20 µm, RA, 0 to 12 bar 66 50 µm, RA, 0 to 12 bar 17 5 µm, SAC, 0 to 12 bar 27 20 µm, SAC, 0 to 12 bar 37 50 µm, SAC, 0 to 12 bar 	L Lubricator	10 Manual filling from the top	1 1/8" port 2 1/4" port 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

- Not available in the anti-corrosion version.
- ⊕ Anti-corrosion version available only in size 1.

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure
 RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.
 SAC: automatic drain with condensate discharge.
Operates by pressure drop – requires variable air take-offs.



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
FR + LUB Syntesi® SY1		FR + LUB Syntesi® SY2		Anti-corrosion version
5611B24L101	FR+LUB SY1 1/8 20 08 RMSA	5623B24L103	FR+LUB SY2 3/8 20 08 RMSA	5X -----
5611B54L101	FR+LUB SY1 1/8 20 08 RA	5623B54L103	FR+LUB SY2 3/8 20 08 RA	Example
5612B24L102	FR+LUB SY1 1/4 20 08 RMSA	5624B24L104	FR+LUB SY2 1/2 20 08 RMSA	5X11B54L101 FR+LUB SY1 1/8 20 08 RA anti-corrosion
5612B54L102	FR+LUB SY1 1/4 20 08 RA	5624B54L104	FR+LUB SY2 1/2 20 08 RA	
5613B24L103	FR+LUB SY1 3/8 20 08 RMSA	5625B24L105	FR+LUB SY2 3/4 20 08 RMSA	
5613B54L103	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	

NOTES

UNITS
FR + LUB Syntesi®

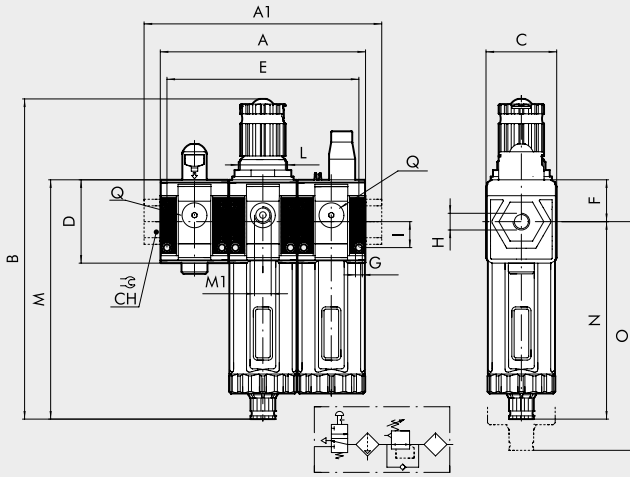
V3V + FR + LUB SYNTESI®

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



TECHNICAL DATA	V3V + FR + LUB SY1			V3V + FR + LUB SY2				
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"	
Threaded port								
Degree of filtration	5 (yellow) - output air purity class ISO8573-1: 3.7- 20 (white) - output air purity class ISO8573-1: 4.7- 50 (blue) - output air purity class ISO8573-1: 5.7-							
Max. inlet pressure	bar			bar				
	MPa			MPa				
	psi			psi				
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	NL/min			NL/min				
(P In=10 bar)	scfm			scfm				
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	NL/min			NL/min				
(P In=10 bar)	scfm			scfm				
Relief valve flow rate at 6.3 bar (0.63 MPa; 91 psi)	NL/min			NL/min				
	scfm			scfm				
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C			°C				
Full outflow with zero inlet pressure	Included			Included				
Drain flow rate at 6.3 bar (0.63 MPa; 91 psi)	NL/min			NL/min				
	scfm			scfm				
Padlockable knob	Included with both V3V and regulator							
Upstream pressure compensation	Included, via balanced valve							
Weight	g	598	593	584	1479	1452	1448	1436
Fluid	Compressed air or other inert gases							
Mounting position	Vertical			Vertical				
Additional air take-off, for pressure gauges or fittings	1/8", front and rear			1/4", front and rear				
Additional air take-off flow rate at 6.3 bar	NL/min			NL/min				
(0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	scfm			scfm				
Filter bowl capacity	cm ³			cm ³				
Quantity of filled oil	cm ³			cm ³				
Condensate drain	60			130				
	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure							
	RA: automatic drain with condensate discharge, independent of pressure and flow rate.							
	Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.							
	SAC: automatic drain with condensate discharge. Operates by pressure drop - requires variable air take-offs.							
	Note: the maximum input pressure for the RA version must not exceed 10 bar							
Recommended oils	ISO and UNI FD22 (Energol HPL; Spinesso; Mobil DTE; Tellus oil)							
Wall fixing screws	No. 2 M4 screws			No. 2 M5 screws				

OVERALL DIMENSIONS



	SIZE 1			SIZE 2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	126			181.5			
A1	-	-	128	-	-	217	217
B	RMSA			246			
	RA/SAC			250			
C	44			61			
CH	-			-	-	32	36
D	51.5			70.5			
E	117.1			168.5			
F	25.8			38.2			
G	Hole for M4 screws			Hole for M5 screws			
I	16			22.5			
L	M30x1.5			M38x2			
M	RMSA			178			
	RA/SAC			182			
M1 (pressure gauge port)	1/8"			1/4"			
N	RMSA			139.8			
	RA/SAC			143.8			
O	RMSA			245			
	RA/SAC			249			
Q (no. 2 additional air takes-off)	1/8"			1/4"			

KEY TO CODES

56	1	1	V	10	B	24	L	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	TYPE	ELEMENT	DEGREE OF FILTRATION, TYPE OF CONDENSATE DRAIN AND SETTING RANGE	ELEMENT	OIL FILLING	THREADED OUTPUT CONNECTION
56 Syntesi 5X Syntesi anti-corrosion	1 Size 1 2 Size 2	1 1/8" port 2 1/4" port 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port	V V3V	10 Manual with Ø3.5 hole for padlocks 11 Manual with Ø7 hole for padlock	B Filter-regulator	<ul style="list-style-type: none"> ● 10 5 µm, RMSA, 0 to 2 bar ● 20 20 µm, RMSA, 0 to 2 bar ● 30 50 µm, RMSA, 0 to 2 bar ● 40 5 µm, RA, 0 to 2 bar ● 50 20 µm, RA, 0 to 2 bar ● 60 50 µm, RA, 0 to 2 bar ● 11 5 µm, SAC, 0 to 2 bar ● 21 20 µm, SAC, 0 to 2 bar ● 31 50 µm, SAC, 0 to 2 bar + 12 5 µm, RMSA, 0 to 4 bar + 22 20 µm, RMSA, 0 to 4 bar + 32 50 µm, RMSA, 0 to 4 bar + 42 5 µm, RA, 0 to 4 bar + 52 20 µm, RA, 0 to 4 bar + 62 50 µm, RA, 0 to 4 bar + 13 5 µm, SAC, 0 to 4 bar + 23 20 µm, SAC, 0 to 4 bar + 33 50 µm, SAC, 0 to 4 bar 14 5 µm, RMSA, 0 to 8 bar 24 20 µm, RMSA, 0 to 8 bar 34 50 µm, RMSA, 0 to 8 bar 44 5 µm, RA, 0 to 8 bar 54 20 µm, RA, 0 to 8 bar 64 50 µm, RA, 0 to 8 bar 15 5 µm, SAC, 0 to 8 bar 25 20 µm, SAC, 0 to 8 bar 35 50 µm, SAC, 0 to 8 bar 16 5 µm, RMSA, 0 to 12 bar 26 20 µm, RMSA, 0 to 12 bar 36 50 µm, RMSA, 0 to 12 bar 46 5 µm, RA, 0 to 12 bar 56 20 µm, RA, 0 to 12 bar 66 50 µm, RA, 0 to 12 bar 17 5 µm, SAC, 0 to 12 bar 27 20 µm, SAC, 0 to 12 bar 37 50 µm, SAC, 0 to 12 bar 	L Lubricator	10 Manual filling from the top	1 1/8" port 2 1/4" port 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

- Not available in the anti-corrosion version.
- + Anti-corrosion version available only in size 1.
- RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.
- RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.
- SAC: automatic drain with condensate discharge. Operates by pressure drop – requires variable air take-offs.

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
V3V + FR + LUB Syntesi® SY1		V3V + FR + LUB Syntesi® SY2		Anti-corrosion version
5611V10B24L101	V3V+FR+LUB SY1 1/8 20 08 RMSA	5623V10B24L103	V3V+FR+LUB SY2 3/8 20 08 RMSA	5X _____
5611V10B54L101	V3V+FR+LUB SY1 1/8 20 08 RA	5623V10B54L103	V3V+FR+LUB SY2 3/8 20 08 RA	Example
5612V10B24L102	V3V+FR+LUB SY1 1/4 20 08 RMSA	5624V10B24L104	V3V+FR+LUB SY2 1/2 20 08 RMSA	5X11V10B54L101 V3V+FR+LUB SY1 1/8 20 08 RA
5612V10B54L102	V3V+FR+LUB SY1 1/4 20 08 RA	5624V10B54L104	V3V+FR+LUB SY2 1/2 20 08 RA	anti-corrosion
5613V10B24L103	V3V+FR+LUB SY1 3/8 20 08 RMSA	5625V10B24L105	V3V+FR+LUB SY2 3/4 20 08 RMSA	
5613V10B54L103	V3V+FR+LUB SY1 3/8 20 08 RA	5625V10B54L105	V3V+FR+LUB SY2 3/4 20 08 RA	
		5626V10B24L106	V3V+FR+LUB SY2 1 20 08 RMSA	
		5626V10B54L106	V3V+FR+LUB SY2 1 20 08 RA	

NOTES

UNITS

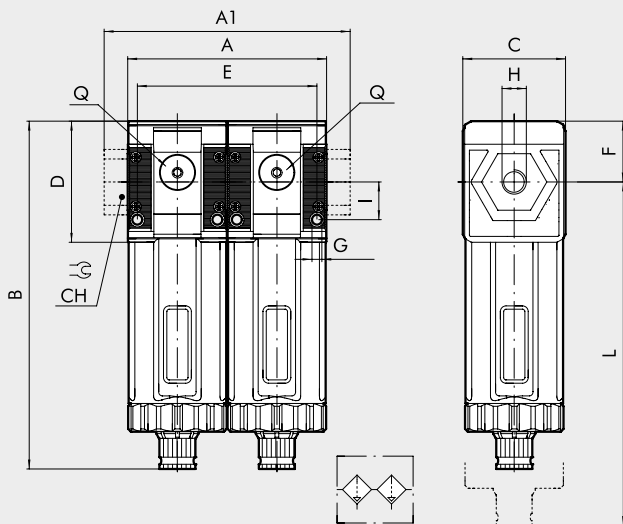
V3V + FR + LUB Syntesi®

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



TECHNICAL DATA	FIL + DEP SY1			FIL + DEP SY2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded port							
Purifier degree of filtration	0.01 - output air purity class ISO8573-1: 1.7.2						
	1 - output air purity class ISO8573-1: 3.7.3						
Filter degree of filtration	5 (yellow)						
Max. inlet pressure	15 bar			13 bar			
	1.5 MPa			1.3 MPa			
	217 psi			188 psi			
Suggested flow rate at 6.3 bar (0.63 MPa; 91 psi)	550 NI/min			1050 NI/min			
	9 scfm			37 scfm			
Maximum suggested flow rate	Look at the chart on the depurator page C1.12			Look at the chart on the depurator page C1.12 / C1.13			
Min/max temperature at 10 bar; 1 MPa; 145 psi	From -10 to +50 °C			From -10 to +50 °C			
Weight	358 g	353 g	344 g	942 g	915 g	911 g	899 g
Purifier condensate drain	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure						
Filter condensate drain	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure						
	RA: automatic drain with condensate discharge, independent of pressure and flow rate.						
	Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.						
	SAC: automatic drain with condensate discharge. Operates by pressure drop - requires variable air take-offs.						
	Note: the maximum input pressure for the RA version must not exceed 10 bar						
Fluid	Compressed air or other inert gases						
Bowl capacity filter/depurator	30/15 cm ³			70/40 cm ³			
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)	500 NI/min			1500 NI/min			
at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	18 scfm			53 scfm			
Wall fixing screws	No. 2 M4 screws			No. 2 M5 screws			

DIMENSIONS



	SIZE 1			SIZE 2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	84			121			
A1	-	-	86	-	-	217	217
B	RMSA RA/SAC			178 182			
C	44			61			
CH	-			-	-	32	36
D	51.5			70.5			
E	75.3			108			
F	25.8			38.2			
G	Hole for M4 screws			Hole for M5 screws			
I	16			22.5			
L	RMSA RA/SAC			245 249			
Q (no. 2 additional air takes-off)	1/8"			1/4"			

KEY TO CODES

56	1	1	F	10	D	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	DEGREE OF FILTRATION AND TYPE OF CONDENSATE DRAIN	ELEMENT	TYPE	THREADED OUTPUT CONNECTION
56 Syntesi 5X Syntesi anti-corrosion	1 Size 1 2 Size 2	1 1/8" port 2 1/4" port 3 3/8" port 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port	F Filter	10 5 µm, RMSA 40 5 µm, RA 11 5 µm, SAC	D Depurator	10 0.01 µm RMSA 11 0.01 µm SAC 30 1 µm RMSA 31 1 µm SAC	1 1/8" port 2 1/4" port 3 3/8" port 3 3/8" port 4 1/2" port 5 3/4" port 6 1" port

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge. Operates by pressure drop – requires variable air take-offs.

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
FIL + DEP Syntesi® SY1		FIL + DEP Syntesi® SY2		Anti-corrosion version
5611F10D101	FIL+DEP SY1 1/8 05 RMSA	5623F10D103	FIL+DEP SY2 3/8 05 RMSA	5X-----
5611F40D101	FIL+DEP SY1 1/8 05 RA	5623F40D103	FIL+DEP SY2 3/8 05 RA	Example
5612F10D102	FIL+DEP SY1 1/4 05 RMSA	5624F10D104	FIL+DEP SY2 1/2 05 RMSA	5X11F40D101 FIL+DEP SY1 1/8 05 RA anti-corrosion
5612F40D102	FIL+DEP SY1 1/4 05 RA	5624F40D104	FIL+DEP SY2 1/2 05 RA	
5613F10D103	FIL+DEP SY1 3/8 05 RMSA	5625F10D105	FIL+DEP SY2 3/4 05 RMSA	
5613F40D103	FIL+DEP SY1 3/8 05 RA	5625F40D105	FIL+DEP SY2 3/4 05 RA	
		5626F10D106	FIL+DEP SY2 1 05 RMSA	
		5626F40D106	FIL+DEP SY2 1 05 RA	

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

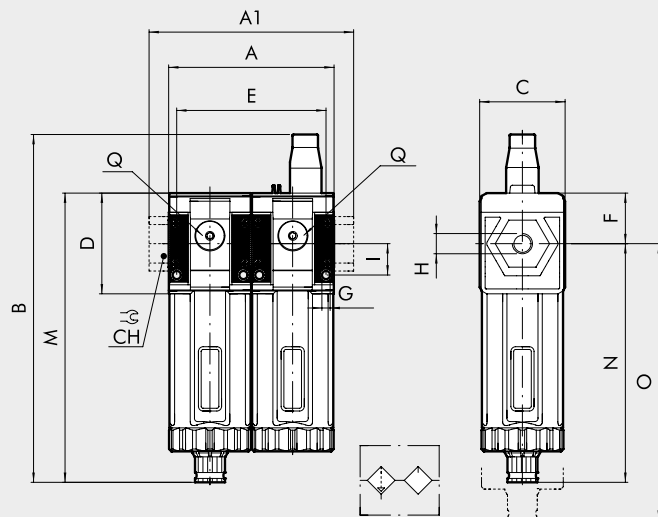


TECHNICAL DATA	FIL + LUB SY1			FIL + LUB SY2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Threaded port							
Degree of filtration	5 (yellow) - output air purity class ISO8573-1: 3.7.- 20 (white) - output air purity class ISO8573-1: 4.7.- 50 (blue) - output air purity class ISO8573-1: 5.7.-						
Max. inlet pressure	bar			bar			
	MPa			MPa			
	psi			psi			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	NI/min			NI/min			
	scfm			scfm			
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	NI/min			NI/min			
	scfm			scfm			
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C			°C			
Weight	349	344	355	840	813	809	797
Fluid	Compressed air or other inert gases						
Mounting position	Vertical			Vertical			
Additional air take-off, for pressure gauges or fittings	1/8", front and rear			1/4", front and rear			
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	NI/min			NI/min			
	scfm			scfm			
Filter bowl capacity (condensate)	cm ³			cm ³			
Quantity of filled oil	cm ³			cm ³			
Condensate drain	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port. SAC: automatic drain with condensate discharge. Operates by pressure drop – requires variable air take-offs. Note: the maximum input pressure for the RA version must not exceed 10 bar ISO and UNI FD22 (Energol HPL; Spinesso; Mobil DTE; Tellus oil)						
Recommended oils							
Wall fixing screws	No. 2 M4 screws			No. 2 M5 screws			

UNITS

FIL + LUB Syntesi®

DIMENSIONS



	SIZE 1			SIZE 2			
	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	84			121			
A1	-	-	86	-	-	156	156
B	RMSA 117.5			208			
	RA/SAC 121.5			212			
C	44			61			
CH	-			-	-	32	36
D	51.5			70.5			
E	75.3			108			
F	25.8			38.2			
G	Hole for M4 screws			Hole for M5 screws			
I	16			22.5			
M	RMSA 148			178			
	RA/SAC 152			182			
N	RMSA 122.2			139.8			
	RA/SAC 126.2			143.8			
O	RMSA 202			245			
	RA/SAC 206			249			
Q (no. 2 additional air takes-off)	1/8"			1/4"			

KEY TO CODES

56	1	1	F	10	L	10	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	DEGREE OF FILTRATION AND TYPE OF CONDENSATE DRAIN	ELEMENT	OIL FILLING	THREADED OUTPUT CONNECTION
56 Syntesi anti-corrosion	1 Size 1	1 1/8" port	F Filter	10 5 µm, RMSA	L Lubricator	10 Manual filling from the top	1 1/8" port
		2 1/4" port		20 20 µm, RMSA			2 1/4" port
		3 3/8" port		30 50 µm, RMSA			3 3/8" port
	2 Size 2	3 3/8" port		40 5 µm, RA			3 3/8" port
		4 1/2" port		50 20 µm, RA			4 1/2" port
		5 3/4" port		60 50 µm, RA			5 3/4" port
		6 1" port		11 5 µm, SAC			6 1" port
				21 20 µm, SAC			
				31 50 µm, SAC			

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate. Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge. Operates by pressure drop – requires variable air take-offs.

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
FIL + LUB Syntesi® SY1				Anti-corrosion version 5X ----- Example 5X11F50L101 FIL+LUB SY1 1/8 20 RA anti-corrosion
5611F20L101	FIL+LUB SY1 1/8 20 RMSA	5623F20L103	FIL+LUB SY2 3/8 20 RMSA	
5611F50L101	FIL+LUB SY1 1/8 20 RA	5623F50L103	FIL+LUB SY2 3/8 20 RA	
FIL + LUB Syntesi® SY2				
5612F20L102	FIL+LUB SY1 1/4 20 RMSA	5624F20L104	FIL+LUB SY2 1/2 20 RMSA	
5612F50L102	FIL+LUB SY1 1/4 20 RA	5624F50L104	FIL+LUB SY2 1/2 20 RA	
5613F20L103	FIL+LUB SY1 3/8 20 RMSA	5625F20L105	FIL+LUB SY2 3/4 20 RMSA	
5613F50L103	FIL+LUB SY1 3/8 20 RA	5625F50L105	FIL+LUB SY2 3/4 20 RA	
		5626F20L106	FIL+LUB SY2 1 20 RMSA	
		5626F50L106	FIL+LUB SY2 1 20 RA	