

This device combines in a single unit the functions of filtration, condensate separation and pressure regulation.

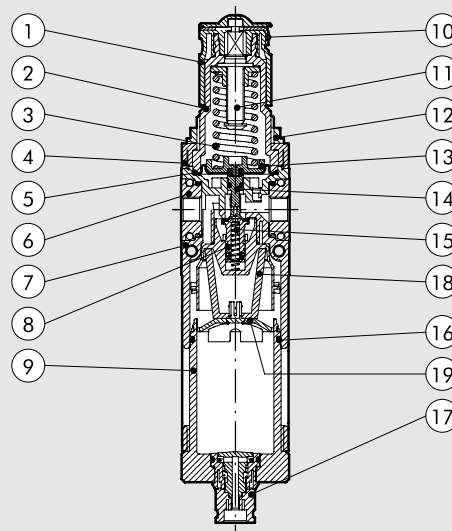
It is made up of the same elements forming the filter and the regulator, so the performance and advantages are the same:

- Separation of condensate and larger liquid and solid particles by centrifugation.
- Two condensate drain options (RMSA and RA).
- 360° visually inspection of the condensate level, via transport spy-holes.
- Rolling diaphragm regulator, allowing maximum precision and flow rate, and minimal friction.
- Compensation for upstream pressure changes.
- Pressure relief valve.
- Quick downstream pressure relief.
- Padlockable push-lock knob.
- Front and rear ports for pressure gauges, pressure switches or, considering the high flow rate, for use as additional filtered and regulated air take-off.

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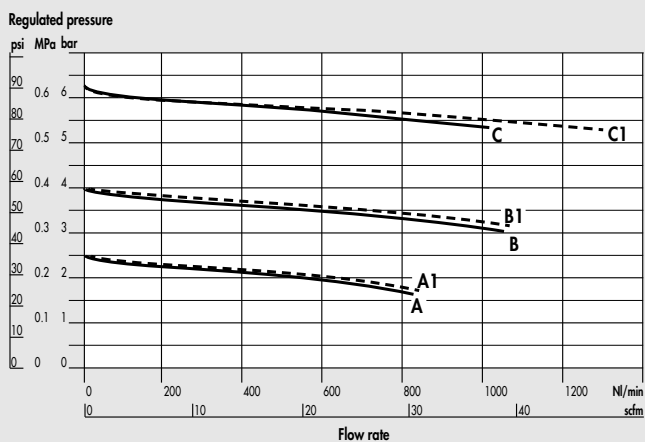
COMPONENTS

- ① Technopolymer adjusting knob
- ② Technopolymer bell
- ③ Steel adjusting spring
- ④ Technopolymer flange
- ⑤ Rolling diaphragm
- ⑥ IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" - 1"
- ⑦ Technopolymer body
- ⑧ OT58 brass valve, with NBR vulcanized valve
- ⑨ Clear technopolymer bowl
- ⑩ Galvanised steel plate for knob locking
- ⑪ OT58 brass adjusting screw
- ⑫ Technopolymer ring nut
- ⑬ Technopolymer plate
- ⑭ Technopolymer rod
- ⑮ Stainless steel valve spring
- ⑯ O-ring NBR gaskets
- ⑰ Drain (RMSA)
- ⑱ Sintered HDPE filter cartridge
- ⑲ Technopolymer screen

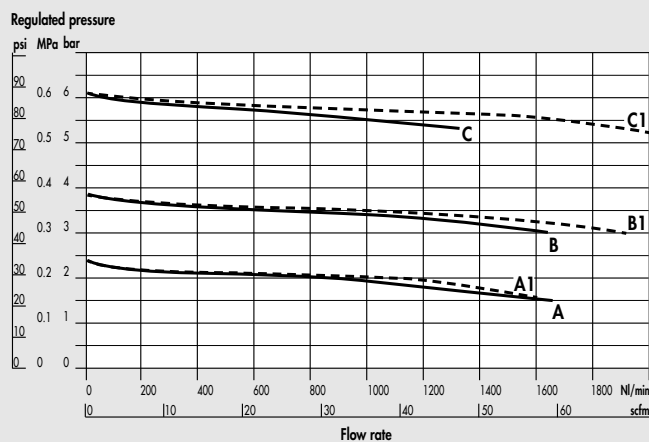


FLOW CHARTS

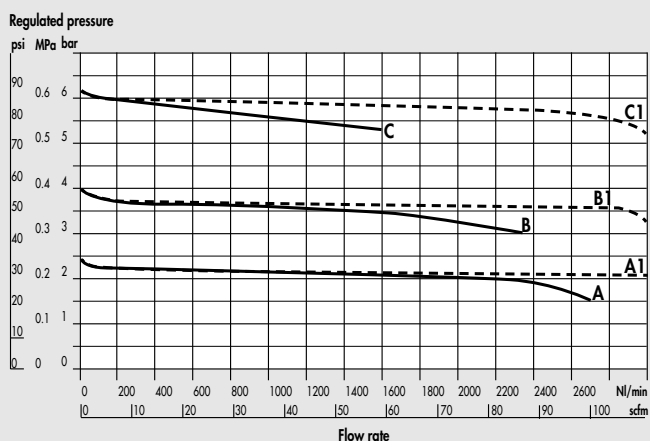
FR Syntesi® SY1 1/8"



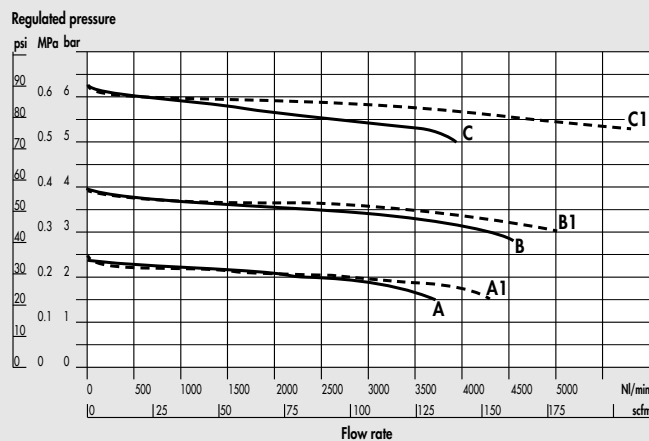
FR Syntesi® SY1 1/4"



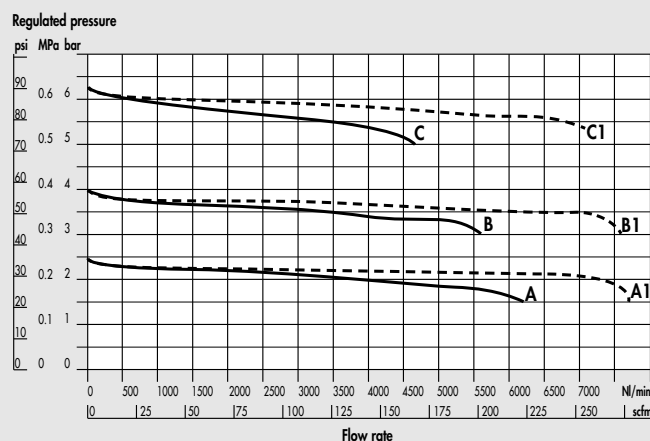
FR Syntesi® SY1 3/8"



FR Syntesi® SY2 3/8"



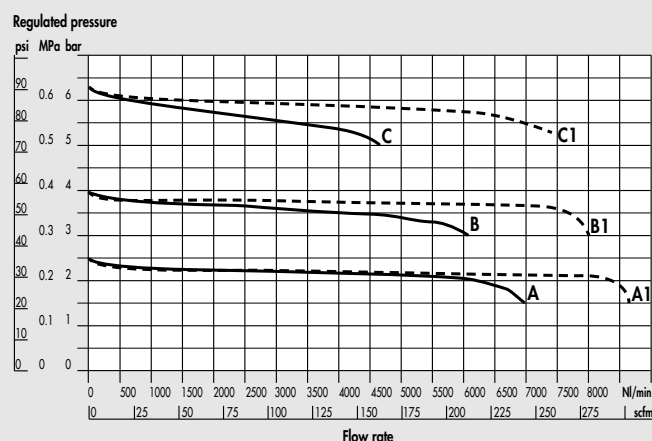
FR Syntesi® SY2 1/2"



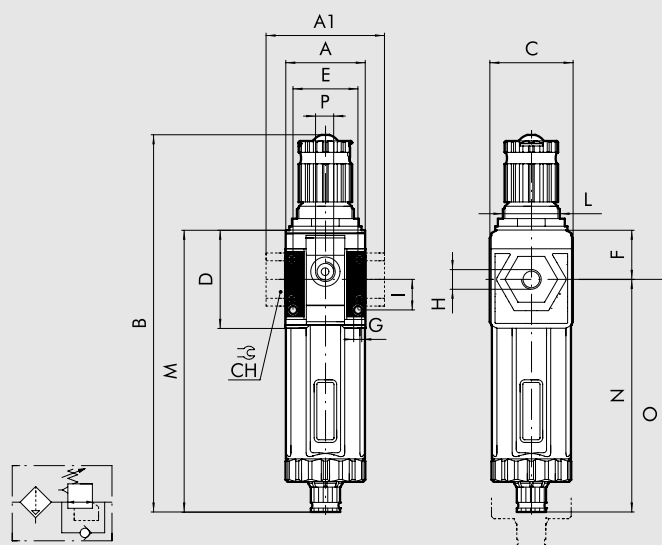
A = P In 7 bar - P Out 2.5 bar
 B = P In 7 bar - P Out 4 bar
 C = P In 7 bar - P Out 6.3 bar

A1 = P In 10 bar - P Out 2.5 bar
 B1 = P In 10 bar - P Out 4 bar
 C1 = P In 10 bar - P Out 6.3 bar

FR Syntesi® SY2 3/4" - 1"



DIMENSIONS



	SIZE 1			SIZE 2			
H (threaded port)	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
A	42			61			
A1	-	-	44	-	-	95	95
B	198			246			
B	202			250			
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	M30x1.5			M38x2			
M	148			178			
M	152			182			
N	122.2			139.8			
N	126.2			143.8			
O	202			245			
O	206			249			
P (pressure gauge port or additional air takes-off)	1/8"			1/4"			

NOTES

KEY TO CODES

56	1	1	B	24	1
SYNTESI	SIZE	THREADED INPUT CONNECTION	ELEMENT	DEGREE OF FILTRATION, TYPE OF CONDENSATE DRAIN AND SETTING RANGE	THREADED OUTPUT CONNECTION
56 Syntesi	1 Size 1	0 Without bushing 1 1/8" port 2 1/4" port 3 3/8" port	B Filter-regulator	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 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 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 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	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

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

RA: automatic drain with condensate discharge, independent of pressure and flow rate.

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