# SUNTESI: 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.

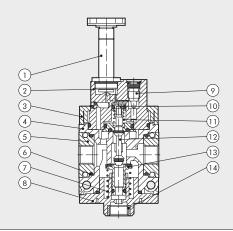
The progressive starter is particularly useful on machinery where it is important to prevent actuators from moving rapidly and out of control, or where, for safety reasons, the air in-feed needs to be gentle and gradual. It, however, there is a major leak in the downstream system, it may never be possible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



		APR SY1			APR S	SY2	
	1/8″	1/4"	3/8"	3/8"	1/2"	3/4"	1"
		1/8″			1/.	4"	
		Solenoid			Solenoid - Cn	omo solenoid	
bar		3 - 10			3 -	10	
MPa		0.3 - 1			0.3	- 1	
psi		43 - 145		43 - 145			
NI/min	900	1000	1100	2800	3600	3	600
scfm	32	39	39	99	127		127
NI/min	1250	1500	1600	4400	4800	4	.800
scfm	44	53	57	156	170		170
NI/min		500			270	00	
scfm		18			90	6	
NI/min	170		700				
°C	From -10 to +50						
g	203	198			476	472	460
	Compressed air or other inert gases						
				In any position			
	1,	$/8^{\prime\prime}$ , front and re	ear		1/4", front	and rear	
		500					
scfm		18			5	3	
	No. 2 M4 screws No. 2 M5 screws						
W	12 VDC and 24 VDC = 2W; 24 VAC, 110 VAC and 220 VAC = 3.5 VA						
	for Cnomo versions: 12 VDC and 24 VDC = 2W; 24 VAC, 110 VAC and 220 VAC = 3.5 VA						
	24 VDC = 4W; 24 VAC, 110 VAC, 220 VAC = 4 VA						
			Bistable: hor	rizontal = OFF, ve	ertical = ON		
	MPa psi NI/min scfm NI/min scfm NI/min scfm NI/min scfm OI/min scfm	bar MPa psi NI/min 900 scfm 32 NI/min 1250 scfm 44 NI/min scfm NI/min scfm °C g 203	1/8"   1/4"   1/8"   Solenoid	1/8"   1/4"   3/8"     1/8"   Solenoid     50	1/8"   1/4"   3/8"   3/8"   3/8"   1/8"   Solenoid   Solenoid	1/8"   1/4"   3/8"   3/8"   1/2"   1/8"	1/8"   1/4"   3/8"   3/8"   1/2"   3/4"

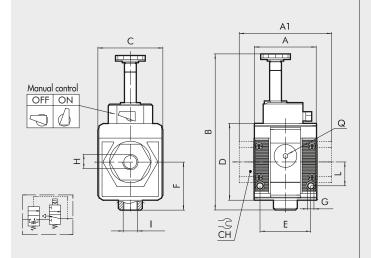
#### **COMPONENTS**

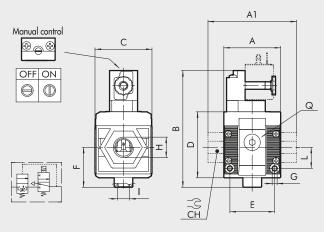
- ① Sleeve ø8
- ② Anodized aluminium upper block
- 3 Technopolymer flange4 Technopolymer body
- (5) IN/OUT bushing made of OT58 nickel-plated brass or passivated aluminium for 3/4" 1"
- 6 O-ring NBR gasket
- Stainless steel valve spring
- ® Technopolymer bottom plug
- OT58 brass progressive start regulation pin
- (1) OT58 brass internal valve
- 11) Stainless steel spring stem recoveryng
- OT58 brass stem
- 3 OT58 brass main valve with vulcanized gasket
- (4) OT58 brass threaded insert



## **DIMENSIONS**

SOLENOID SY1-SY2 | CNOMO SOLENOID SY2





	SOLENOID		SOLENOID / CNOMO SOLENOID					
	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	
В		105			•	131		
Cnomo		-				125		
С		44				61		
СН		-		-	-	32	36	
D		51.5			7	70.5		
E		33.5			4	17.5		
F		32.2			4	12.7		
G	Ho	ole for M4 screv	VS		Hole for	M5 screws		
I (exhaust)		1/8"			1	/4"		
L		16			2	22.5		
Q (no. 2 additional air takes-off)		1/8"			1	/4"		

## **KEY TO CODES**

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

<sup>\*</sup> Only for size 2

## PURCHASE ORDER CODES HAVING A MORE FREQUENT USE

N.B. Beside	es the below mentioned codes,	you can order elements composed	l at your will according t	to the key to codes
Code	Description	Code	Description	

Code	Description	Code	Description
Syntesi <sub>®</sub> SY1 P	ROGRESSIVE STARTER	Syntesi <sub>®</sub> SY2 PR	OGRESSIVE STARTER
5610A700	APR SY1 elpn without bushings	5620A700	APR SY2 elpn without bushings
5611A701	APR SY1 1/8 elpn	5623A703	APR SY2 3/8 elpn
5612A702	APR SY1 1/4 elpn	5624A704	APR SY2 1/2 elpn
5613A703	APR SY1 3/8 elpn	5625A705	APR SY2 3/4 elpn
		5626A706	APR SY2 1 elpn

Code	Description
Syntesi <sub>®</sub> SY2 PI	ROGRESSIVE STARTER
5620A710	APR SY2 elpn Cnomo without bushings
5623A713	APR SY2 3/8 elpn Cnomo
5624A714	APR SY2 1/2 elpn Cnomo
5625A715	APR SY2 3/4 elpn Cnomo
5626A716	APR SY2 1 elpn Cnomo