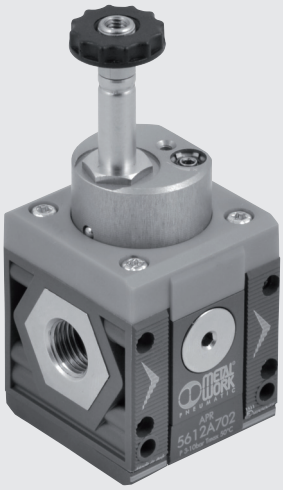
The progressive starter is a pneumatic component that allows air enter the circuit gradually, thereby avoiding excessive pressure bursts.
A sophisticated system of internal valves allows two separate stages of operation. During the first stage, a quantity of air that can be regulated via a pin flows from the APR. The second stage starts when the downstream pressure reached 40÷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.

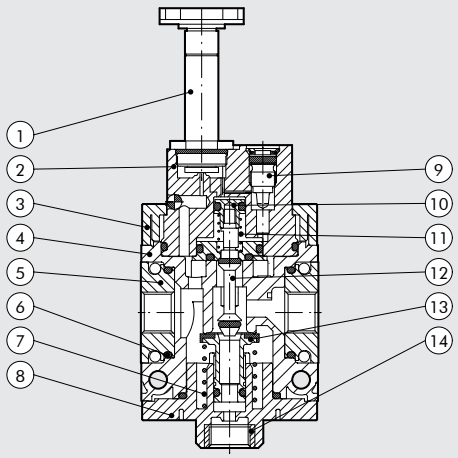


TECHNICAL DATA

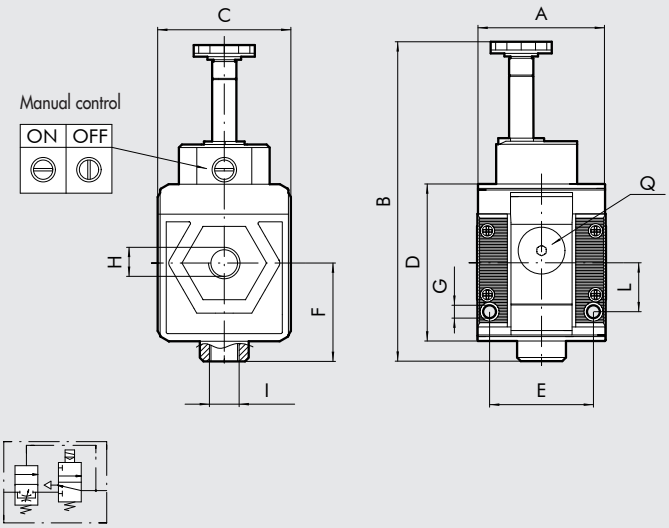
Threaded port		1/8"	1/4"	3/8"
Threaded discharge port			1/8"	
Type of control			Solenoid	
Inlet pressure	bar		3-10	
	MPa		0.3-1	
	psi		43-145	
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 0.5 bar (0.05 MPa; 7 psi)	Nl/min	900	1000	1100
	scfm	32	39	39
Flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	Nl/min	1250	1500	1600
	scfm	44	53	57
Drain flow rate at 6.3 bar (0.63 MPa; 91 psi)	Nl/min		500	
	scfm		18	
Maximum flow rate start-up, at 6.3 bar (0.63 MPa; 91 psi)	Nl/min		170	
with regulation pin completely unscrewed	scfm		6	
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C		From -20 to +50	
Weight	g	203	198	189
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	
Additional air take-off flow rate at 6.3 bar	Nl/min		500	
(0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	scfm		18	
Wall fixing screws			No. 2 M4 screws	
Bobbin capacity for electro-pneumatic version	W	12VDC e 24VDC: 2W;	24VAC, 110VAC and 220 VAC: 3.5 VA	
Manual control of electro-pneumatic versions			Bistable, with screwdriver slot (horizontal = OFF, vertical = ON)	

COMPONENTS

① Sleeve ø8
② Anodized aluminium upper block
③ Technopolymer flange
④ Technopolymer body
⑤ OT58 brass IN/OUT bushing
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



H (threaded port)	1/8″	1/4″	3/8″
A	42	42	44
B	105		
C	44		
D	51.5		
E	33.5		
F	32.2		
G	Hole for M4 screws		
I (exhaust)	1/8″		
L	16		
Q (no. 2 additional air takes-off)	1/8″		

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	**0** Without bushing **1** 1/8″ port **2** 1/4″ port **3** 3/8″ 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
5610A700	APR SY without bushings
5611A701	APR SY 1/8 elpn
5612A702	APR SY 1/4 elpn
5613A703	APR SY 3/8 elpn