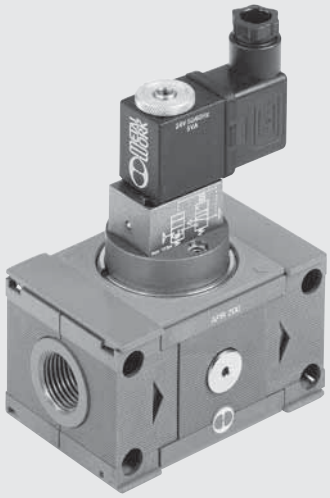
Skillair® PROGRESSIVE STARTER

The job of the progressive starter is to feed air into the circuit gradually with controlled flow. It comes in two versions with solenoid or pneumatic actuation. Both control signals cause the valve to open, which allows the air controlled by the flow regulator to flow slowly towards the downstream circuit.
In the APR, when the pressure in the downstream circuit reaches 50%-60% of the upstream pressure, the valve opens the main inlet duct connecting.
The time elapsing between starting and opening the valve can be adjusted via the built-in flow regulator. If it is necessary to relieve the downstream circuit quickly, merely operate the control valve which cuts off air flow in the pipe. This closes the valve and starts relieving the downstream circuit.
The progressive starter acts both as an actuator positioner, which eliminates the risk of sudden kickback, and as a valve.

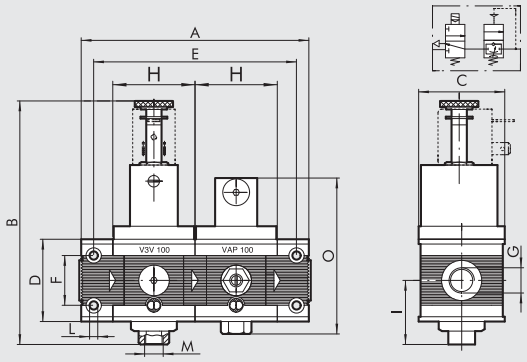
N.B. With size 400, when the APR is mounted upstream of the regulator, the pilot regulator must be piloted at a pressure taken upstream of the APR, otherwise when the system is relieved, most of the air downstream will be relieved by the regulator and not the APR relief port.
For connecting instruction see page **C3**.23



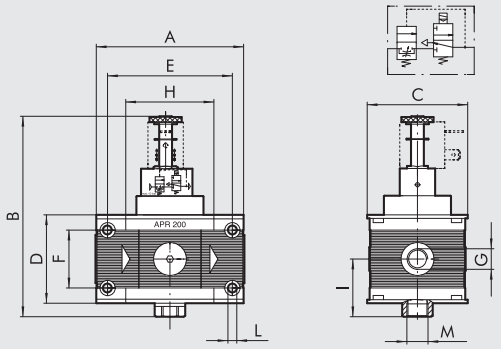
TECHNICAL DATA		APR 100		APR 200			APR 300			APR 400			
Threaded port		1/4"	3/8"	1/4"	3/8"	1/2"	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	2"
Min. inlet pressure	MPa	0.3		0.3			0.4			0.3			0.3
	bar	3		3			4			3			3
	psi	43.5		43.5			58			43.5			43.5
Max. inlet pressure*	MPa	1.5		1.3			1.3			1			1
	bar	15		13			13			10			10
	psi	217		188.5			188.5			145			145
Flow rate at 6.3 bar (0.63 MPa to 91 psi)	Nl/min	1300		2000			2400			13000			14000
ΔP 0.5 bar (0.05 MPa to 7 psi)	scfm	46		71			85			460			494
Flow rate at 6.3 bar (0.63 MPa to 91 psi)	Nl/min	2000		3200			3600			-			-
ΔP 1 bar (0.1 MPa to 14 psi)	scfm	71		113			127			-			-
Max temperature	°C	50		50			50			50			50
	°F	122		122			122			122			122
Weight	kg	~ 0.8		~ 0.9			~ 1.5			5.6			6.4
Wall fixing screws		M4 x 50		M5 x 60			M5 x 70			M6 x 110			M6 x 110
Type of control		Pneumatic		Pneumatic			Pneumatic			Pneumatic - Solenoid			
		Solenoid		Solenoid			CNOMO Solenoid						
				CNOMO Solenoid									
Mounting position		In any position											
Fluid		Filtered, lubricated or unlubricated compressed air. Lubrication, if used, must be continuous.											
Notes on use		For the pneumatic version 200 the pilot pressure must range between the inlet P and the inlet P + 2 bar.											
		For pneumatic version 300, the pilot pressure must be greater or equal to the input pressure.											
		* 1 MPa - 10 bar - 145 psi for solenoid version											

DIMENSIONS APR SOLENOID

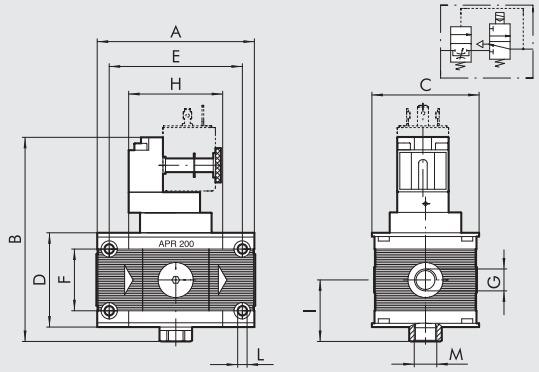
APR 100 SOLENOID



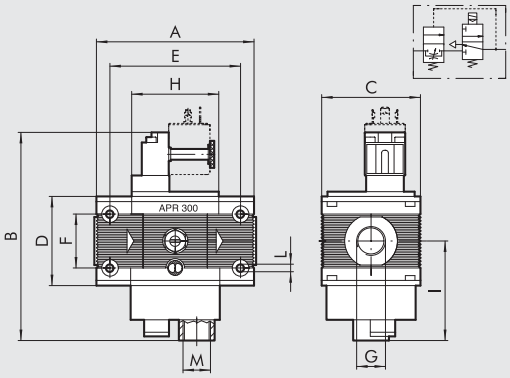
APR 200 SOLENOID



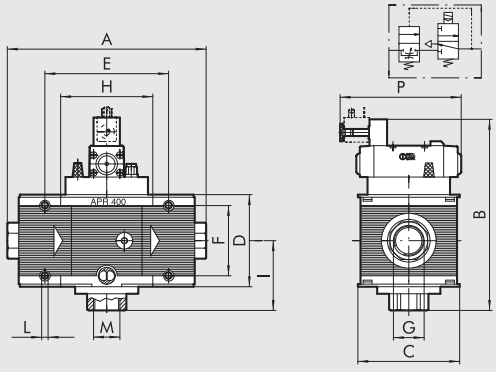
APR 200 CNOMO SOLENOID



APR 300 CNOMO SOLENOID



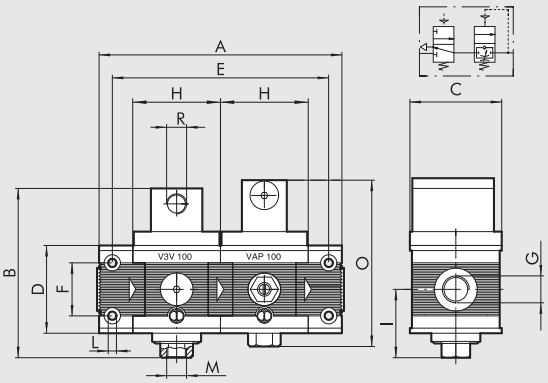
APR 400 SOLENOID



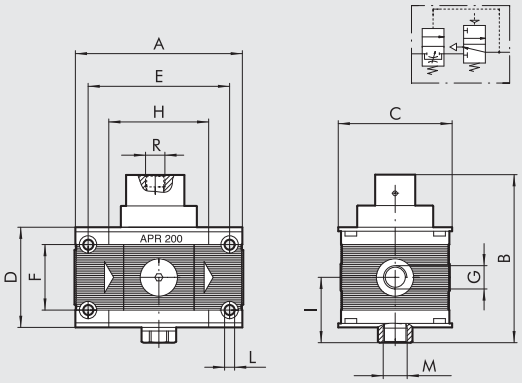
	APR 100 ELPN		APR 200 ELPN			APR 200 ELPN CNOMO			APR 300 ELPN CNOMO			APR 400 ELPN			
Threaded port G	1/4″	3/8″	1/4″	3/8″	1/2″	1/4″	3/8″	1/2″	1/2″	3/4″	1″	1″	1 1/4″	1 1/2″	2″
A	121		93.5			93.5			110		112	225 to 255			283 to 313
B	128		125			120			152			218			
C	50		63			63			72			106			
D	43		55			55			65			105			
E	106		78.5			78.5			92			141.4			
F	26		36			36			42			80			
H	43		55.5			55.5			65			105.4			
I	34.5		36			36			74			80			
L	M4 hole		M5 hole			M5 hole			M5 hole			M6 hole			
M (relief)	1/8″		1/4″			1/4″			1/2″			1″			
O	83.5		-			-			-			-			
P	-		-			-			-			138			

DIMENSIONS APR PNEUMATIC

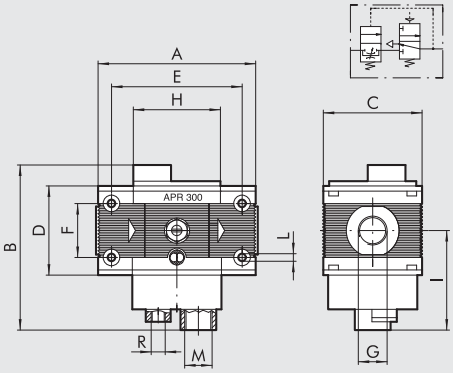
APR 100 PNEUMATIC



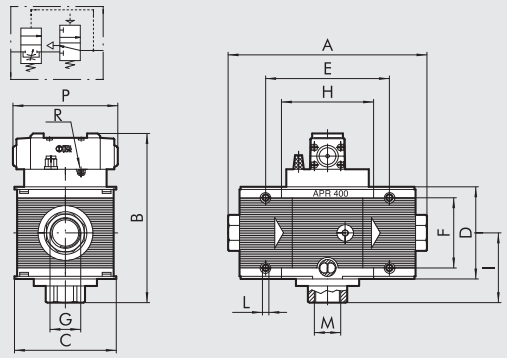
APR 200 PNEUMATIC



APR 300 PNEUMATIC



APR 400 PNEUMATIC



	APR 100 PN		APR 200 PN			APR 300 PN			APR 400 PN			
Threaded port G	1/4″	3/8″	1/4″	3/8″	1/2″	1/2″	3/4″	1″	1″	1 1/4″	1 1/2″	2″
A	121		93.5			110		112	225 to 255			283 to 313
B	83		92			122			193			
C	50		63			72			116			
D	43		55			65			105			
E	106		78.5			92			141.4			
F	26		36			42			80			
H	43		55.5			65			105.4			
I	34.5		36			74			80			
L	M4 hole		M5 hole			M5 hole			M6 hole			
M (relief)	1/8″		1/4″			1/2″			1″			
R (pilot)	1/8″		1/8″			1/4″			M5			
P	-		-			-			119			

SYNOPTIC, SIZES AND VERSIONS

APR ELEMENT	100 SIZE	1/4 THREADED PORT	PNEUMATIC TYPE OF CONTROL
APR	100	1/4 3/8	Pneumatic Solenoid
	200	1/4 3/8 1/2	
	300	1/2 3/4 1	
	400	1 1 1/4 1 1/2 2	

ORDERING CODES

Code	Description
Skillair® 100 PROGRESSIVE STARTER	
3267001A	APR 100 pneumatic without end plates
3267051A	APR 100 solenoid without end plates
3267001	APR 100 1/4 pneumatic
3267051	APR 100 1/4 solenoid
3367001	APR 100 3/8 pneumatic
3367051	APR 100 3/8 solenoid
Skillair® 200 PROGRESSIVE STARTER	
3471000A	APR 200 pneumatic without end plates
3471001A	APR 200 solenoid without end plates
3471004A	APR 200 solenoid cnomo without end plates
3471000	APR 200 1/4 pneumatic
3471001	APR 200 1/4 solenoid
3471004	APR 200 1/4 solenoid cnomo control
3571000	APR 200 3/8 pneumatic
3571001	APR 200 3/8 solenoid
3571004	APR 200 3/8 solenoid cnomo control
3671000	APR 200 1/2 pneumatic
3671001	APR 200 1/2 solenoid
3671004	APR 200 1/2 solenoid cnomo control

Code	Description
Skillair® 300 PROGRESSIVE STARTER	
4471900A	APR 300 pneumatic without end plates
4471901A	APR 300 solenoid cnomo without end plates
4471900	APR 300 1/2 pneumatic
4471901	APR 300 1/2 solenoid cnomo control
4571900	APR 300 3/4 pneumatic
4571901	APR 300 3/4 solenoid cnomo control
4671900	APR 300 1 pneumatic
4671901	APR 300 1 solenoid cnomo control
Skillair® 400 PROGRESSIVE STARTER	
6171002A	APR 400 pneumatic without end plates
6171003A	APR 400 solenoid without end plates
6171002	APR 400 1 pneumatic
6171003	APR 400 1 solenoid
6271002	APR 400 1 1/4 pneumatic
6271003	APR 400 1 1/4 solenoid
6371002	APR 400 1 1/2 pneumatic
6371003	APR 400 1 1/2 solenoid
6471002	APR 400 2 pneumatic
6471003	APR 400 2 solenoid