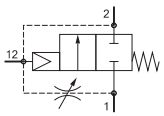
Progressive start-up valve (AP - APW)

- Progressive start-up valve
- Available in 4 sizes with flow rates up to 15000 Nl/min and connections from 1/8" to 1"
- Suitable for downstream system gradual pressurization
- Downstream circuit filling time regulated via a built in flow regulator
- Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure
- Atex certification (II 2GD or II 3GD)

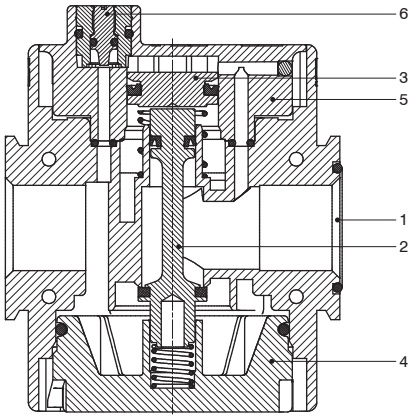


Technical characteristics					
Size		**Size 1**	**Size 2**	**Size 3**	**Size 4**
Body and connections type		Technopolymer body, integrated technopolymer connections (T version) Technopolymer body, metal connections (N version)			/ /
		/	Aluminium body, integrated aluminium connections (P version)		
IN / OUT connections	**T version**	G1/4"	G3/8"	G1/2"	not available
	N version	G1/8" - G1/4" - 1/4" NPT	G3/8" - G1/4" - 3/8" NPT	G3/8" - G1/2" - 1/2" NPT	
	P version	not available	G3/8"	G1/2"	G1"
Assembly configuration		Stand alone /			Panel mounted
Assembly positions		Indifferent			
Max. fittings torque IN / OUT connections		G1/8" metal: 15Nm G1/4" metal: 20Nm G1/4" technopolymer: 9Nm	G1/4" metal: 20Nm G3/8" metal: 25Nm G3/8" technopolymer: 16Nm	G3/8" metal: 25Nm G1/2" metal: 30Nm G1/2" technopolymer: 22Nm	G1"metal: 35Nm

Operational characteristics				
Size	**Size 1**	**Size 2**	**Size 3**	**Size 4**
Maximum working pressure	13 bar			10 bar
Minimum working pressure	2,5 bar			
Working temperature	-5°C +50°C			
Nominal flow rate at 6 bar with Δp=1 (from 1 to 2)	1400 Nl/min	2200 Nl/min	3600 Nl/min	15000 Nl/min
Fully open flow control device maximum flow rate	75 Nl/min	200 Nl/min	200 Nl/min	1000 Nl/min

Weights				
Size	Size 1	Size 2	Size 3	Size 4
Technopolymer body version	80 g	150 g	240 g	/
Aluminium body version	/	235 g	370 g	1100 g

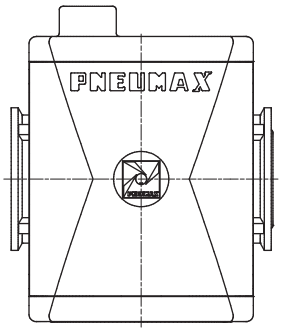
Materials
Exploded sectioned



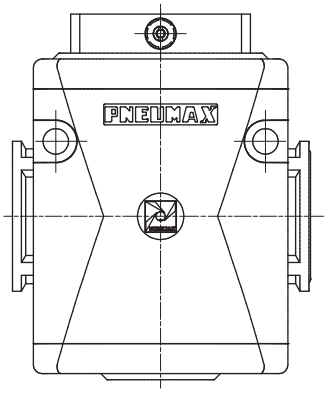
Progressive start-up valve		
1	Body	Polyamide Die-cast aluminium
2	Drive pin	Aluminium
3	Piston	Aluminium
4	Rear end cap	Polyamide / Die-cast aluminium
5	Central support	Polyamide / Aluminium
6	Modulating needle	Brass

Design

Size 1 - Size 2 - Size 3



Size 4



Order codes

T | 17 | 3B | AP |

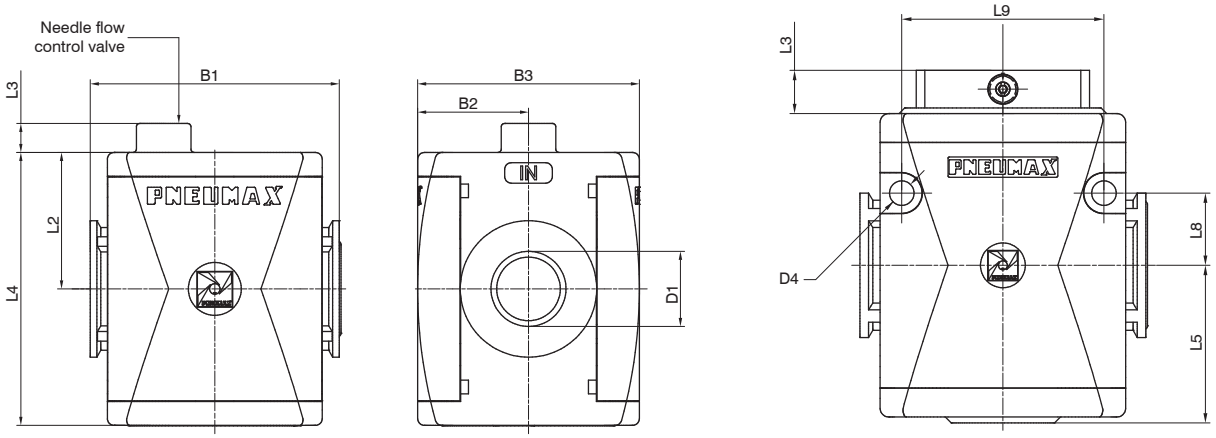
Version
N : Technopolymer body and metal inserts (not available for size 4)
T : Technopolymer body and thread (not available for size 4)
P : Aluminum body (not available for size 1)

Size and connections
1A : Size 1 - G1/8” only for N version
1B : Size 1 - G1/4” only for T - N versions
1C : Size 1 - 1/4” NPT only for N version
2A : Size 2 - G1/4” only for N version
2B : Size 2 - G3/8” for all versions
2C : Size 2 - 3/8” NPT only for N version
3A : Size 3 - G3/8” only for N version
3B : Size 3 - G1/2” for all versions
3C : Size 3 - 1/2” NPT only for N version
4B : Size 4 - G1” only for P version

Flow direction (only for size 4)
: From left to right
W : From right to left

Example : T173BAP : Size 3 progressive start-up valve G1/2”

Dimensions



Model	B1	B2	B3	D1	D4	L2	L3	L4	L5	L8	L9
#171..	48	21	42	G1/8” G1/4”	/	27,5	12	55	/	/	/
#172..	62	28,5	57	G1/4” G3/8”	/	34	9,2	68	/	/	/
#173..	73	32,5	65	G3/8” G1/2”	/	40	8,7	80	/	/	/
#174..	99	44	88	G1”	8,5	52,5	13	105	54,5	25	70