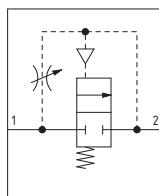


► Progressive start-up valve (AP - APW)



- 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 downstream circuit pressure reaches 50% of the inlet pressure
- Atex certification (II 2GD or II 3GD)



Size		Technical characteristics				
		Size 1	Size 2	Size 3	Size 4	
Body and connections type		/	Aluminium body, integrated aluminium connections (P version)			
		Technopolymer body, integrated technopolymer connections (T 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" metal	/		/	35Nm	
	G1/2" metal	/		30Nm	/	
	G1/4" metal	20Nm		/		
	G1/8" metal	15Nm	/	/		
	G3/8" metal	/	25Nm			
	G1/2" technopolymer	/		22Nm		
	G1/4" technopolymer	9Nm	/	/		
	G3/8" technopolymer	/	16Nm	/		

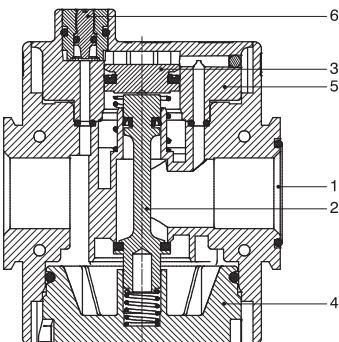
Operational characteristics				
Size	Size 1	Size 2	Size 3	Size 4
Maximum working pressure		13 bar		10 bar
Minimum working pressure		2,5 bar		
Working temperature		-5°C...+50°C		
Nominal flow rate at 6 bar with $\Delta p = 1$ (from 1 to 2)	1400 Nl/min	2200 Nl/min	3600 Nl/min	15000 Nl/min
Fully open flow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

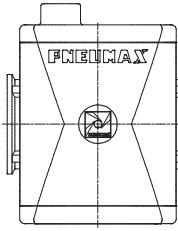


Progressive start-up valve		
1	Body	Polyamide Die-cast aluminium
2	Drive pin	Aluminium
3	Piston	Aluminium
4	Rear end cap	Polyamide / Die-cast aluminium
5	Central support	Polyamide / Aluminium
6	Modulating needle	Brass

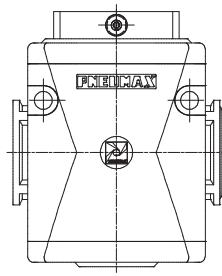
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Design

Size 1 - Size 2 - Size 3



Size 4

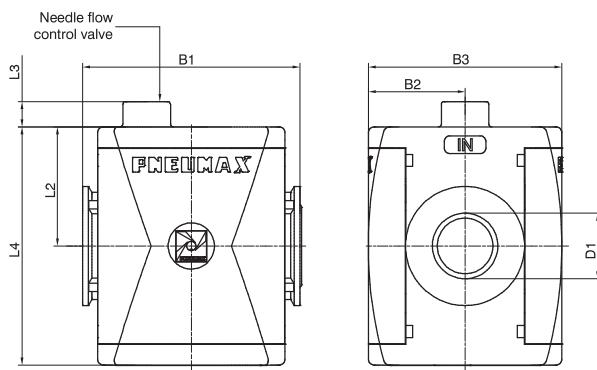


Coding: **V17TAPF**

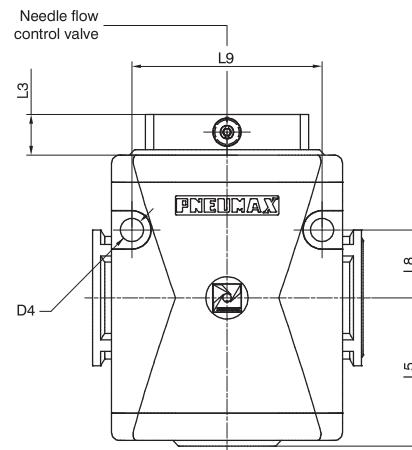
V	VERSION
	N = Technopolymer body and metal inserts (not available for size 4)
	T = Technopolymer body and thread (not available for size 4)
P	Aluminum body (not available for size 1)
SIZE AND CONNECTIONS	
1A	Size 1 - G1/8" only for N version
1B	Size 1 - G1/4" only for T - N versions
1C	Size 1 - 1/4" 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)	
F	= From left to right
	W = From right to left

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

Dimensions



Fixing holes dimension detail
(only for size 4)



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