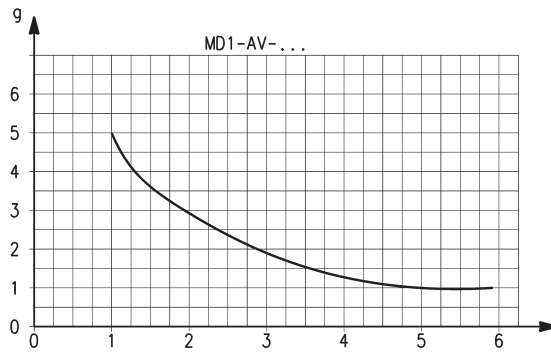
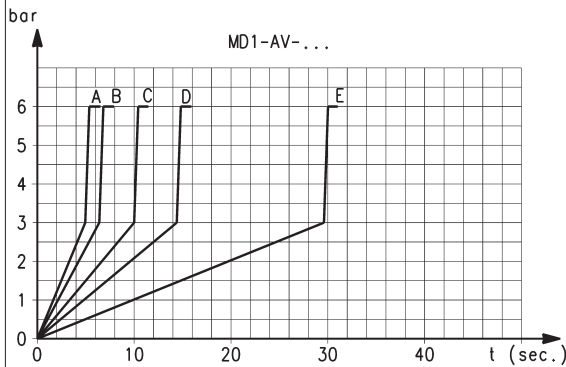


# Series MD soft start valves

## Series MD modular FRL units



### MD1 DIAGRAMS FOR PRESSURISATION TIMES

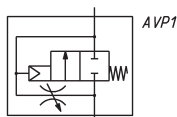
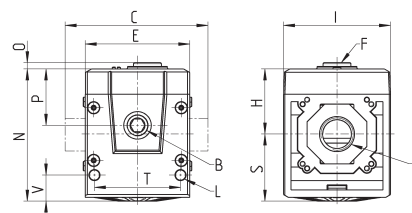


Pressurisation times as to the number of turns of the regulation screw, with downstream volume of 5 litres. A = 5 turns - B = 4 turns - C = 3 turns - D = 2 turns - E = 1 turn. K = number of turns of the regulation screw required to obtain the required pressurisation time with an inlet pressure of 6 bar. Variations of the inlet pressure can cause deviations of the pressure time by  $\pm 20\%$ .  $K = t/V$  where: V = volume of the downstream system in litres; t = desired pressuring time in seconds.

EXAMPLE:  
 V = 5 litres  
 t = 16 seconds  
 $K = 16/5 = 3,2$

Using in the graph this value K, the number of turns of the regulation screw will be approx. 0,8.

### Series MD soft start valves - dimensions



Mod.	A	B	C	E	F	H	I	L	N	O	P	S	T	V	Weight (Kg)
<b>MD1-AV</b>	-	G1/8	42	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2
<b>MD1-AV-1/8</b>	G1/8	G1/8	42	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2
<b>MD1-AV-1/4</b>	G1/4	G1/8	42	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2
<b>MD1-AV-3/8</b>	G3/8	G1/8	42	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2
<b>MD1-AV-6</b>	Ø6	G1/8	47	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2
<b>MD1-AV-8</b>	Ø8	G1/8	62	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2
<b>MD1-AV-10</b>	Ø10	G1/8	67	42	G1/8	26.2	43	Ø4	53.2	2.5	22.7	27	34.6	10.5	0.2

Module with interchangeable cartridges:  
 threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube  
 with Ø 6, 8 and 10 mm (5-way version)  
 Intermediate joining cartridge (3-way version)

- » Compact design
- » Utilities orientation



The take-off module enables to draw air from the air treatment group, both in middle and end position. The same operation, although in a more limited way, can be carried out with the intermediate cartridge.

## GENERAL DATA

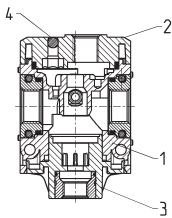
<b>Construction</b>	modular, compact
<b>Materials</b>	see TABLE OF MATERIALS (pag. 3/0.45.02)
<b>Ports - Take-off block</b>	with interchangeable cartridges: 1/8, 1/4 and 3/8 threaded or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm
<b>Ports - Joining cartridge with derivation</b>	3/8
<b>Derivations - Take-off block</b>	4x 1/8
<b>Derivations - Joining cartridge</b>	2x 1/8
<b>Fixing - Take-off block</b>	in-line; wall-mounting by means of through holes in the body or with a support bracket
<b>Operating temperature</b>	-5°C ÷ 50°C
<b>Operating pressure</b>	0 ÷ 16 bar
<b>Nominal flow at 6 bar with <math>\Delta p = 1</math> bar</b>	MD1-B00-1/8 = 1300 NI/min MD1-B00-1/4 = 2300 NI/min MD1-B00-3/8 = 3400 NI/min
<b>Fluid</b>	compressed air

### CODING EXAMPLE

<b>MD</b>	<b>1</b>	<b>-</b>	<b>B</b>	<b>00</b>	<b>-</b>	<b>1/8</b>
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<b>MD</b>	SERIES
<b>1</b>	DIMENSION: 1 = 42 mm
<b>B</b>	TAKE-OFF BLOCK
<b>00</b>	DESIGN TYPE: 00 = standard derivation
<b>1/8</b>	PORTS (IN - OUT)*: = without cartridges 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10  * NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-B00-3/8-10

### Series MD take-off block - materials



PARTS	MATERIALS
<b>1 = Body</b>	Polyamide
<b>2 = Covering</b>	Polyamide
<b>3 = Plug</b>	Polyamide
<b>4 = Sphere</b>	Stainless steel
<b>Seals</b>	NBR