# Soft start valve Series MC

**3**

TREATMENT

## Modular
Ports G1/4, G3/8 and G1/2



**The Series MC soft start valve is used to avoid damaging people or equipment when pressurising pneumatic systems containing cylinders.**
**The features of these components allow to pressurise an equipment up to 50% of the indicated pressure, after which 100% is reached rapidly.**
**The usual location of the soft start valve is after the FRL unit; in fact the modular design allows for perfect adaptability with all Series MC.**

A pressure switch can be mounted into the upper part of the unit after removal of the S2610 G1/8 plug.
An electrical or pneumatic 3 way valve should be installed before the unit to allow depressurisation.

## GENERAL DATA

| Construction | modular, compact, poppet type | | |
|---|---|---|---|
| Materials | zama, NBR, technopolymer | | |
| Ports | G1/4 | G3/8 | G1/2 |
| Weight | Kg 0,275 | 0,566 | 0,544 |
| Mounting | in-line wall or panel mounting (in any position) | | |
| Operating temperature | 0°C ÷ 50°C | | |
| Finishing | enamelled | | |
| Operating pressure | 2 ÷ 10 bar | | |
| Nominal flow (determined at 6 bar with ΔP1) | G1/4 1850 Nl/min, G3/8 5000 Nl/min, G1/2 5100 Nl/min | | |

## CODING EXAMPLE

| MC | 2 | 02 | - | AV |
|----|---|----|----|----|

| | |
|---|---|
| **MC** | SERIES |
| **2** | SIZE:<br>1 = G1/4<br>2 = G3/8 - G1/2 |
| **02** | PORTS:<br>04 = G1/4<br>38 = G3/8<br>02 = G1/2 |
| **AV** | AV = SOFT START VALVE |

## Soft start valve Series MC

X = time regulation
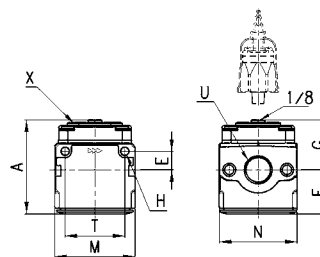
### DIMENSIONS

| Mod. | A | E | F | G | H | M | N | T | U |
|------|-----|----|------|------|---|----|----|----|------|
| **MC104-AV** | 59,5 | 11 | 28,5 | 31 | 4 | 45 | 45 | 35 | G1/4 |
| **MC238-AV** | 72,5 | 14 | 34 | 38,5 | 5 | 62 | 60 | 46 | G3/8 |
| **MC202-AV** | 72,5 | 14 | 34 | 38,5 | 5 | 62 | 60 | 46 | G1/2 |

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TREATMENT

## VARIATION IN PRESSURISATION
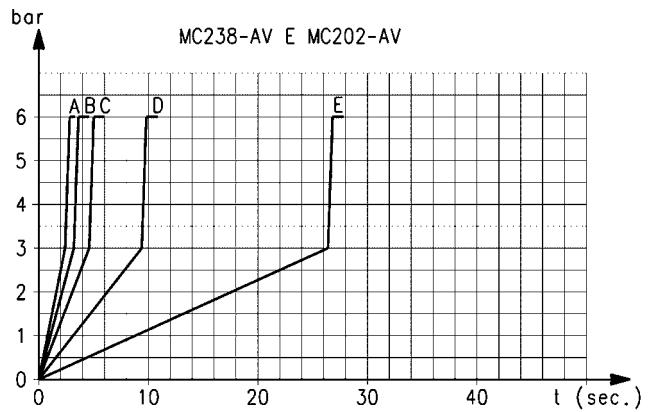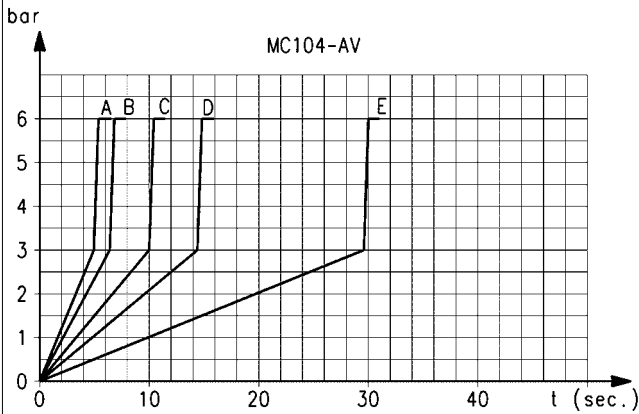


Pressurisation time by n° of turns of the regulation screw, with downstream volume 5 litres. Constant K on the graph indicates the n° of turns of the regulation screw required to obtain the required pressurisation time with an inlet press. of 6 bar. Variations of the inlet press. can cause deviations of the press. time by ± 20%. K = t/V where: V = volume of the downstream system in litres ; t = desired pressuring time in seconds.

A = 5 turns
B = 4 turns
C = 3 turns
D = 2 turns
E = 1 turn

## VARIATION IN PRESSURISATION - Example
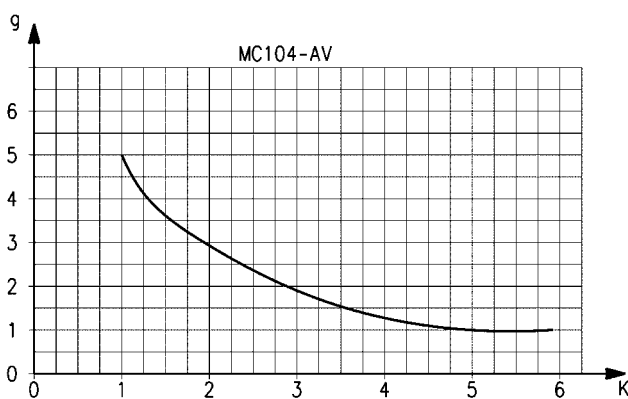


Example: MC104-AV
V = 5 liters
t = 16 seconds
K = 16/5 = 3,2
g = number of turns
Using in the graph this value K, the number of turns of the regulation screw will be approx. 1,8.
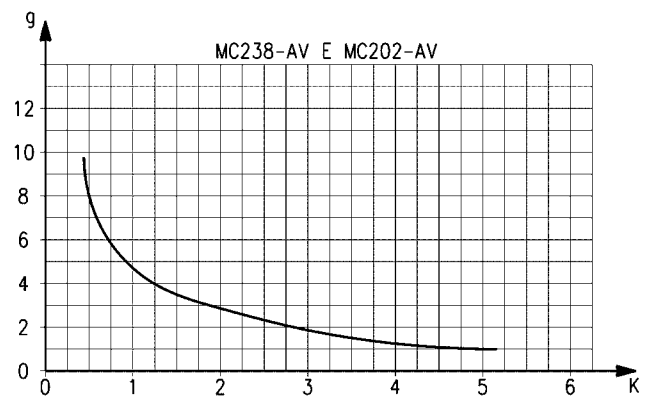
Example: MC238-AV - MC202-AV
V = 5 liters
t = 16 seconds
K = 16/5 = 3,2
g = number of turns
Using in the graph this value K, the number of turns of the regulation screw will be approx. 1,8.

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