

ADVANTAGES OF THE MANVIA SEQUENCERS SQ_B + MF_B

MANVIA SEQUENCERS

OTHERS

GENERAL

All sequencer system is integrated in a block.

Advantage: Savings of up to 75% of panel space.



They do not allow to integrate all the elements in a single block
 So is necessary to install independently:

- The sequence controller.
- The block manifolds.
- The rotameters.
- All tubing.
- Wiring from the solenoid valves to sequencer.

Disadvantage:

- Loss of space.
- More materials.
- More labor ...

Result: Added costs and a worse overall solution to analyzer systems.

WIRING

All manifold solenoid valves are wired to the controller.

Advantage:

Savings of all electrical interconnection work. Failures in wiring are avoided.

It is necessary to wire each of the solenoid valves to the sequence controller.

In a panel of an analyzer system, it often means, in addition to having to pull and connect the cable, drill the mounting plate to install it from behind, cable protections, time, space, etc.

DRAIN

The drainage system is common for all samples.

Advantage:

You only need to install a drain tubing from the manifold block.

For example, in a sequencer of 4 samples we would save the laying of three drainage tubings, with their corresponding fittings, space, labor, etc.

It is necessary to install a drain tubing from each sample solenoid valve to the collector drain.

SAMPLES FLOW

The Manvia sequencer incorporates a rotameter per sample (optional), mounted on the manifold block.

Each rotameter has a built-in regulating valve to adjust the sample flow rate.

Advantages:

- It is not necessary to install tubing from each rotameter at the entrance of the manifold block.
- It is not necessary to support each rotameter.
- The capacity between the rotameter and the manifold block is minimal, which is why we gain response time, space, joint visualization, etc.

For example, in a sequencer of 4 samples we would save install 4 tubings, with their corresponding fittings, space, labor, etc.

The configuration of the manifold block of the competence does not allow placing the rotameters directly on the manifold. Forcing us to install them separately, supporting them and install one line of tubing for each sample. All this, complicates the installation, making it more complicated and in many cases less accessible.

ADJUSTMENT TO THE NUMBER OF SAMPLES NECESSARY

The sequencer of Manvia, adjusts to the number of samples necessary.

Advantage:

Manvia allows to adapt exactly to the number of samples that needs to be sequenced (2 to 8) by the available combinations of blocks of 2, 3, 4, 5, 6 and 8 samples.

The competence has blocks of 4 samples in most cases. Therefore, if 2 or 3 are needed, the block of 4 samples must be acquired.

If you need to sequence 5 samples, you must acquire two blocks of 4, etc.

This also supposes an added cost, loss of panel space, resources, etc.

THE DIFFERENCE ON THE INSTALLATION:



In the next table, we can appreciate the considerable difference in the installation between Manvia sequencer for eight samples and other sequencers:

	MANVIA	OTHERS
Area Required to install eight sequenced samples in panel:	0.23 m2	1.05 m2
Wiring connections (on electronic box and solenoids) necessary:	0	16
Tubing samples connections (including rotameters):	8	24
Fittings necessary to connect 8 samples (including rotameters):	0	24
Samples drains lines necessary:	1	8
Fittings necessary to drain the samples	1	8
Supports necessary including: Electronic box sequencer, manifold valves and rotameters:	1	11