








Window Automation industrY Srl a socio unico
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GENERAL WARNINGS	
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Before undertaking any installation or electrical connection, read these instructions carefully. The user is required to read the notes contained in these instructions and keep them for further consultation.
Refer to Line G1 general instructions, downloadable from website www.way-srl.com with regard to:
- anything not mentioned in this brochure
- the application characteristics of devices used for Ventilation Systems and Natural Smoke and Heat Extractors Systems
WAY reserves the right to make any changes/improvements to the content of this publication without obligation to notify, provided there are no consequences in terms of performance and regulations.

DEFINITION OF SYMBOLS	
ATTENTION	DANGER WARNING
 Attention! Carefully read these instructions.	 Danger warning! Indicates a hazard that could result in injury.
 Attention! Highlights notes to be taken into account to avoid damage to the selector valve.	 Danger warning! Danger of crushing hands.
 Information. This refers to important information to pay attention to.	

NOTES ON THE SELECTOR VALVE

- Selector valves for MINGARDI G1 pneumatic actuators are designed, manufactured and tested in a workmanlike manner with quality materials and are suitable for use in Natural Smoke and Heat Extractor systems conforming to IEC EN 12101-2.
- The guarantee for safe operation is linked to the compliance, on behalf of installers, of the safety rules in force in the country of installation.
- The use of the selector valve for other applications must be authorized after technical verification of the application.
- Install the selector valve using only original or approved accessories.

IMPORTANT SAFETY INSTRUCTIONS

It is important to carefully follow all the instructions listed below to ensure everyone's safety.

Improper installation could make the application dangerous.

During use, observe the following rules of conduct:



- The selector valve is not a structural component of the window (dome, skylight, etc.).
- The buttons/control devices must be on the outside of the ray of action of the window's mobile part (dome, skylight, etc.).
- Do not allow children to play with the fixed or remote controls.
- When controlling the opening or closing of the window (dome, skylight, etc.), make sure that other people are at a certain distance from the moving parts, even if it is done by a detection system.
- It is recommended to disconnect the supply of the selector valve during maintenance operations, especially when equipped with an automatic control device.
- Check that no objects obstruct the movement of the window (dome, skylight, etc.). In the event of failure, never perform interventions on the selector valve and do not open or remove parts of the thermal valve. If the selector valve malfunctions or is damaged, contact specialized personnel and do not use it until it has been repaired.
- During the assembly of the selector valve and/or its removal from the system, exercise the greatest caution to avoid breaking the window (dome, skylight, etc.) accidentally and possible personal injury.
- Provide a scaffold if the product is installed at a height greater than 2.5 m.
- In order to perform emergency stops, it is advisable to use the control located in a position where the window (dome, skylight, etc.) is visible.

INSTALLATION

Only for technical personnel responsible for installation.
Both the assembly operations and electrical and pneumatic connections of the Selector valves must be performed by qualified personnel with appropriate professional training and specific knowledge of the technical reference and safe working practice standards.

OPERATIONS TO BE PERFORMED BEFORE INSTALLING THE SELECTOR VALVE



- Check that:
- The profiles and fixings are capable of withstanding the stress produced by the drive.
 - The types of hinges or hardware used enable the entire stroke of the cylinder/actuator/ other, in order to avoid damage to structures caused by the pushing or puling force.
 - The systems comply with current standards in the country of installation.
 - The packing contains all the components and accessories required for the installation.
 - The device contained inside the package is undamaged.
 - The components are protected from dust and water before installation.
 - When used also for ventilation, use filtered and dehumidified air.

INSTALLING THE SELECTOR VALVE

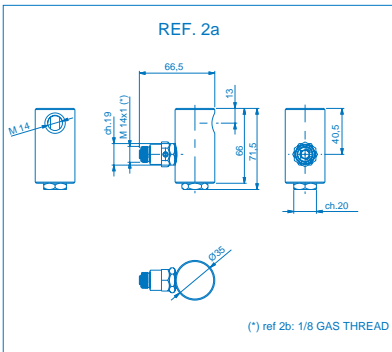


Power the selector valves and run an idle cycle to make sure it was not damaged during transport.



- If the opening of the window (dome, skylight, etc.) is limited by safety accessories, the selector valves or the window (dome, skylight, etc.) could undergo damage.
- Danger of crushing hands.
- While the window is moving, do not put your hands between the fixed frame and the mobile parts.

FEATURES



DIRECT SELECTOR VALVE COUPLING TO CYLINDER (REF. 2a)

Automatic valve that separates the supply inlets. It has two inlets: a radial, female, threaded one M14x1 which normally receives the thermal valve or another selector valve; the other inlet is axial and normally receives a compressed air line for daily VENTILATION or a CO₂ emergency line from the cylinder box. The outlet of this version is equipped with a rotating lockable male threaded joint M14x1, for direct coupling to the cylinder or to another selector valve. In the absence of pressure from the radial inlet, an internal spring selector maintains communication between the axial inlet (on the bottom) and the outlet. After having used it for VENTILATION, the pressure on this

line must be released by pressurizing the line connected to the radial inlet (e.g. by tripping the thermal valve); the selector makes this line communicate with the outlet and simultaneously closes the axial inlet to prevent feeding fluid leaking.
On releasing said pressure, the valve returns to starting conditions.

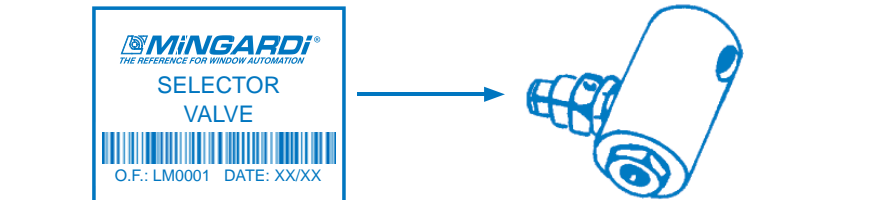
SELECTOR VALVE WITH FEMALE COUPLING 1/8" GAS (REF. 2b)

Automatic valve that separates the supply inlets. It has two inlets: a radial, female, threaded one M14x1 which normally receives the thermal valve or another selector valve; the other inlet is axial and normally receives a compressed air line for daily VENTILATION or a CO₂ emergency line from the cylinder box.

The latter inlet has a fixed joint with female threaded outlet 1/8" gas, on which a commercial fitting should be installed, suitable for the pipe you intend using. The outlet of this version is equipped with a fixed joint with threaded female outlet 1/8" gas, on which a commercial fitting should be installed, suitable for the pipe you intend using.

In the absence of pressure from the radial inlet, an internal spring selector maintains communication between the axial inlet (on the bottom) and the outlet. After having used it for VENTILATION, the pressure on this line must be released by pressurizing the line connected to the radial inlet (e.g. by tripping the thermal valve); the selector makes this line communicate with the outlet and simultaneously closes the axial inlet to prevent feeding fluid leaking.
On releasing said pressure, the valve returns to starting conditions.

IDENTIFICATION



TESTS



The test must be performed according to system design documentation as follows:
- begin by checking the conformity of the system and its components
- then run the functional tests **as laid down by the reference standards**.
The most comprehensive tests are those in which a fire is simulated, producing smoke and heat beneath a detector in each compartment.
Consult G1 Line's general instructions that you may download from the following website: www.way-srl.com for information on the characteristics of the operations to be carried out on all the system's components, to be performed in agreement between the parties: local authorities, Fire Department, Customer etc. since:
- there are components that can be used only once and must then be replaced.
- certain Extractors might have damage and/or deformations that even if they do not invalidate the mobility and efficiency of the Extractor as such, they may deteriorate its water and air tightness characteristics.

MAINTENANCE



Schedule periodic inspections to be assured that the Selector valve retains maximum efficiency and is ready to be used at any time.
Consult G1 Line's general instructions, which you may download from the following website: www.way-srl.com to proceed with the operations to be carried out:
a) **as required by current regulations** (including M.D. of 10 March 1998, Annex VI)
b) every:
- 6 months
- 1 year
- 2 years
- 4 years
- also depending in any case on the environmental conditions in which the system operates (e.g.: humid or harsh environments, etc.) and to be integrated with all the other parts that make up the system itself (e.g.: integrity of the connection lines, efficiency of the detection system, state of the buffer batteries, etc.).

ACCESSORIES - SPARE PARTS

6.b. Outlet joint

