

GR Smart Home Series Auto Valve User Manual

Foreword

Welcome to choose our product. This Auto Valve is applied with Z-Wave technology and compatible with all Z-Wave network. Every Auto Valve can work as signal repeater, therefore all the devices form into cellular network and generate multi-routes.

This product can be included and operated in any Z- Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Specification

Model No. : GR-105N

Rated voltage : 12V/1A

Communication technology : Z-Wave plus

Communication frequency : 908.42Mhz / 868.42Mhz

Wireless range (sight of line) : 40 M

Valve Pressure : 1.6 Mpa

Valve size : 1/2", 3/4", 1", 1.25", 1.5"

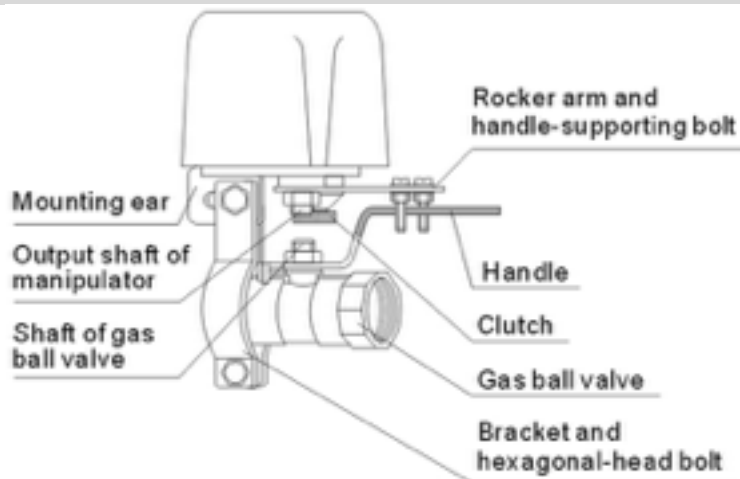
Close time : 5~10 seconds

Open time: 5~10 seconds

Torque : 30~60 kg.cm

Accessories : 12V/1A power adaptor, hardware accessories

Installation



1. Add/Delete device

Add/Delete button: the red button on the upper-front side. Press 3 times it is sending NIF signal, make sure the Z-Wave controller in the rang for inclusion or exclusion.

Notice: It is recommended to keep the device within 1 meter to the controller during Delete operation. If the controller has not received the signal, please repeat again.

2. Resetting the valve

Press and hold the button 10 seconds and release the button. The device will send the reset notification to the list node in the group1 and erases the device memory, when the light flash it is resetting success.

Note: This should only be used in the event your networks primary controller is missing or otherwise inoperable.

3. Association capabilities

If setting the association this valve may send the Switch_Binary_report to the node.
Group 1-Lifeline can setting and support 5 nodes. (Group 2~5 is not support)

4.Support Z-Wave COMMAND_CLASS

COMMAND_CLASS_BASIC
COMMAND_CLASS_VERSION
COMMAND_CLASS_ZWAVEPLUS_INFO
COMMAND_CLASS_MANUFACTURE_SPECIFIC
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_ASSOCIATION
COMMAND_CLASS_ASSOCIATION_GROUPINFO
COMMAND_CLASS_SWITCH_BINARY
COMMAND_CLASS_SWITCH_ALL

5. Hardware Installation

For gas ductwork user

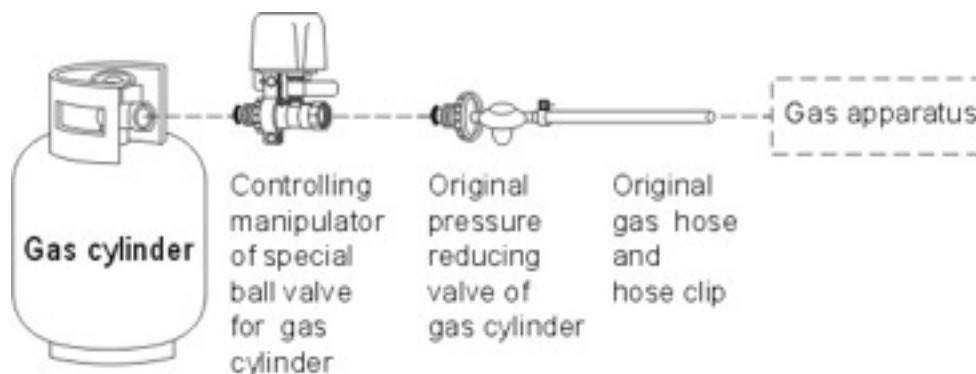
The main ball valve should be designed and installed to the place as much as convenient for manual opening & closing operation. The manipulator should keep 20mm away from the wall.

- Install the Auto Valve to the main ball valve with two semicircular brackets which grip pipe, and another end fix the mounting ear of the manipulator.
- Make the bracket with screw thread in the guide-bar side of the mounting ear by tightening two M6*16 hexagonal-head bolts into the two bolt holes at both ends of the bracket for initial installation, but fix them loosely. Put two rocker arm screw bolts symmetrically to the both sides of the valve handle and tighten two M4 nuts using cross screw driver and 7# spanner.
- Adjust the three-dimensional position of the bracket to make a coaxial line between the output shaft of the manipulator and the center line of the valve, and then tighten two M6*16 hexagonal-head bolts using the 10# fork wrench or box wrench (the socket wrench preferred).

The manipulator could connect ductwork directly, instead of the rocket arm, for connection to the output shaft of the manipulator and the gas ball valve.

For bottled gas user

To connect bottled gas, the user uninstall the original pressure reducing valve and install the manipulator with the special ball valve for pipe between the original angle valve and pressure reducing valve, and then tighten it. (See the following figure.)



In case of alarm failure, overhaul or power cut

- a) pull out the tab of clutch and keep,
- b) manually turn the handle to 90 degree, open and close the handle to the dead point until move smoothly,
- c) Release the tab, then gently move the handle to make the clutch back to its original position.

This product is also applicable to automatic control of other gas or fluid valves such as water.

Disclaimer : The above information is subject to change without prior notice. Please contact your local dealer or us for update. GR Smart home reserves the right of interpretation.