# Serie F.1200

## MOTORIZED GLOBE VALVE FLANGED

## F.1230

Motorized valves are electro-mechanical shut-off valves used in the automatic control fluids.

The F.1230 is motorized globe valve – flanged type, with actuator. Suitable for heating and conditioning (HVAC), distribution and treatment of water, industrial application, agricultural application, for compressed air processing.

**YES:** for water, for services with frequent acting

**NO:** for gas and steam

### Application fields

CONDITIONING HEATING WATER INDUSTRY

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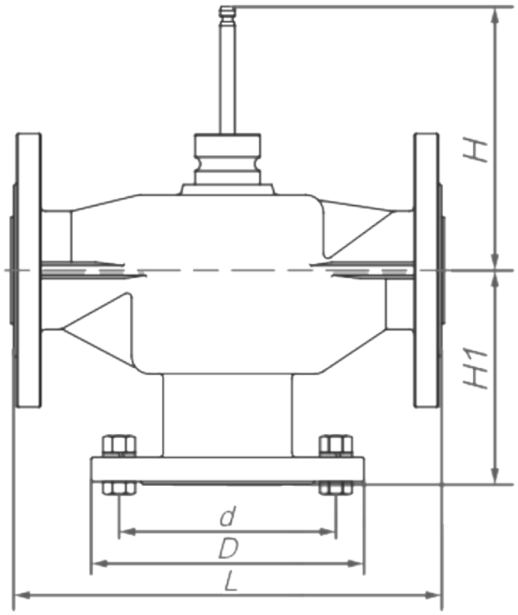
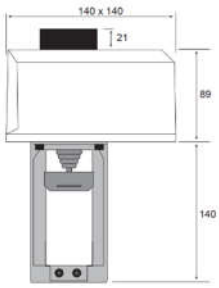
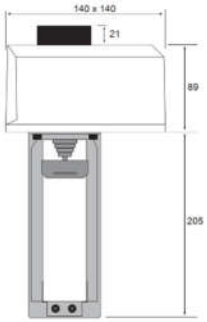


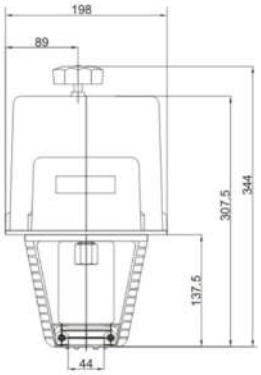

**DN 65-80**




**DN 100**




**DN 125-200**




## Materials

| | Component | Material |
|---|---|---|
| 1 | Body | Grey cast iron |
| 2 | Stem | Stainless steel |
| 3 | Stem packing | PTFE |
| 4 | Actuator | ABS Cover – self-extinguishing Aluiminium bracket |

## Dimensions (mm)

| DN | 65 | 80 | 100 | 125 | 150 | 200 |
|---|---|---|---|---|---|---|
| L | 290 | 310 | 350 | 400 | 480 | 600 |
| d | 145 | 160 | 180 | 210 | 240 | 295 |
| D | 185 | 200 | 220 | 250 | 285 | 340 |
| H | 154 | 158 | 200 | 213 | 229 | 259 |
| H1 | 176 | 178 | 210 | 240 | 280 | 340 |

## KVs

| | | | | | | |
|---|---|---|---|---|---|---|
| | 54 | 67 | 120 | 180 | 256 | 330 |

## Max differential pressure (bar) (*)

| | | | | | | |
|---|---|---|---|---|---|---|
| | 2.0 (6) | 1.5 (6) | 1.5 (6) | 2.0 (5) | 2.0 (5) | 1.5 (4) |

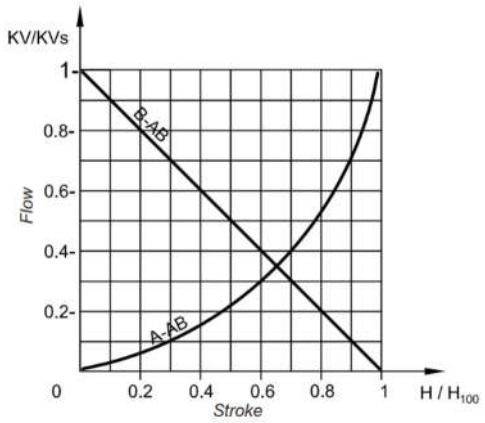
Note: The values in the brackets are the max. dfferential pressure when valve is fully closed and actuator is still able to open or close the valve with security. In order to avoid wear between plug and seat, we recommend not to overcome the nominal values

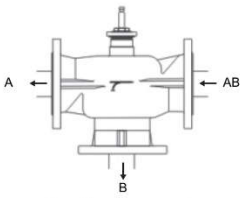
**Certificates**

**Standards**

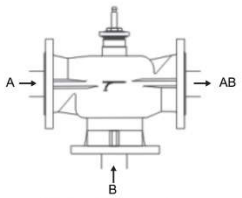
Face to face : EN558-1
Flanges: EN1092
Tests : TS EN 12266-1
Nominal Pressure: PN16
Temperature: -10 ~ 120°C
Valve leakage: less than 0.03% of KVs

## FLOW CHARACTERISTICS:

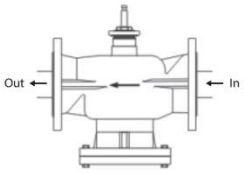


Diverting 3-way-valve



Mixing 3-way-valve



2-way-valve

- A-AB equal-percentage way
- B-AB bypass linear way
- 3-way used as mixing inlet in A and B, outlet AB
- 3-way used as diverting inlet in AB, outlet from A and B

## STORING

- Keep in a dry and closed place.
- While stored, the valve must be fully open to avoid damage to the seats.

## RECOMMENDATIONS

Before carrying out maintenance or dismantling the valve: ensure that the pipes, valves and fluids have cooled down, that the pressure has decreased and that the lines and pipes have been drained in case of toxic, corrosive, inflammable and caustic liquids. Temperatures above 50°C and below 0°C might cause damage to people.

## INSTALLATION

- Do not lift the valve by the actuator.
- Handle with care. The valve must be installed in either the ON or OFF position.
- Before installing, check that:
  - the piping is clean,
  - the valve is clean and undamaged,
  - the flange are clean and undamaged.
  - Ensure that the electrical data of the valve's actuator corresponds to the electrical data of the supply.
- Do not use with fluids which are petroleum based or containing mineral oil, hydrocarbons, or solvents. Do not use with abrasive fluids.
- Suitable for antifreeze solutions (with minimum 50% water dilution diethylene glycol, ethylene glycol, and propylene glycol).
- Use piping of the same nominal size of the valve.
- The valve can be mounted in any position except upside-down.
- The valve must be installed with flow direction same as the arrow on the valve body.
- Place the valve between the flanges of the pipe and install the seal between the pipe and valve flanges. Check the correct position of the seals.
- The distance between the counter flanges should be equal to the valve's face to face distance. Do not use bolts of the counter flanges to bring the piping close to the valve. The bolts should be cross ightened.
- Do not weld the flanges to the piping after installing the valve.
- Water hammers might cause damage and ruptures. Inclinations, torsions and misalignments of the piping may subject the installed valve to excessive stresses. It is recommended that elastic joints be used in order to reduce such effects as much as possible.
- It is recommended that the valve be operated periodically, to prevent the build-up of materials on the wedge and the seats, particularly in the presence of limestone.

## Actuator

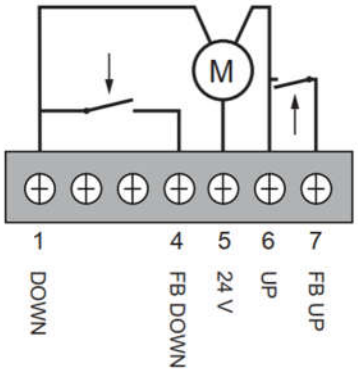
### Specification

| | |
|---|---|
| Enclosure | IP54 |
| Power | Single phase 24V AC |
| Working range | -10 ~ +50°C |
| Torque | DN65~DN80: 1200 N; DN100: 1800 N; DN125: 3000 N; DN150~200: 7000 N |
| Running time | DN65~DN80: 114s ; DN100: 210s ; DN125: 105s ; DN150~200: 240s |
| Function | On/Off, Floating (Option: proportional) |
| Signal (Proportional) | 0(2)-10V / 0(4)-20mA |

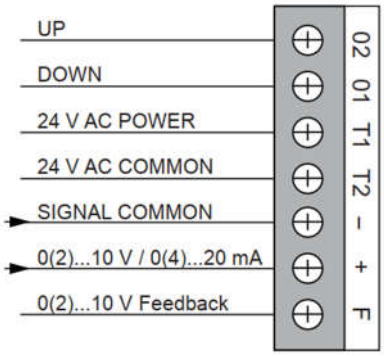
### Wiring Diagram

**DN 65-100**

**On/Off, Floating**

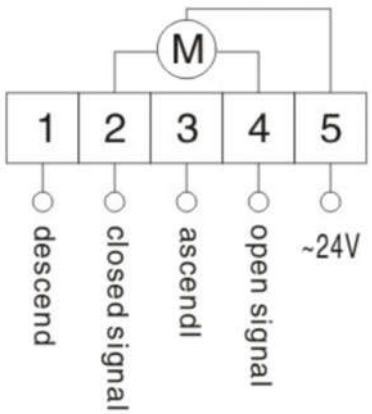



**Proportional**




**DN 125-200**

**On/Off, Floating**




**Proportional**