



The DFCM is designed for two position (on/off) control of hot or cold water in heating and cooling HVAC systems. The actuator has a long-life motor and spring return mechanism.

- \* Spring return mechanism
- \* Tight shut-off
- \* Detachable actuator part
- \* Close-off pressure up to 250 kpa
- \* Supply voltage 230 V AC
- \* Two-wire connection

## Function

The DFCM series two position valves are designed to control temperature in heating- and cooling systems. The valves are designed to withstand high moisture conditions.

### Function

On demand, a normally closed valve is opened by a signal from a thermostat. When the temperature reaches set level, the spring return function will force the valve to closed position.

The paddle assemblies close against the flow on 2-way valves. 3-way valves are normally closed to the coil side (See Dimensions overleaf)

### Actuator

The actuator is detachable from the valve and has a plastic casing.

### Installation

The valves are to be mounted according to the flow direction marks on the valves. To ensure tight closure and prevent noise when closing, the valves are to be mounted on the return line of a coil. The 3-way valve is of diverting type and should be mounted on the supply line at the diverting point. The valves are recommended to be mounted with the actuator in an upright or side position.

## Models

2-way models	Connection	Kv	Max. diff. press.	3-way models	Connection	Kv	Max. diff. press.
DFCM-215/3.2	DN15	Kv3.2	200kPa	DFCM-315/3.2	DN15	Kv3.2	150kPa
DFCM-220/4.6	DN20	Kv4.6	150kPa	DFCM-320/4.6	DN20	Kv4.6	100kPa
DFCM-225/5.7	DN25	Kv5.7	100kPa	DFCM-325/5.7	DN25	Kv5.7	100kPa

## Technical data

### Actuator

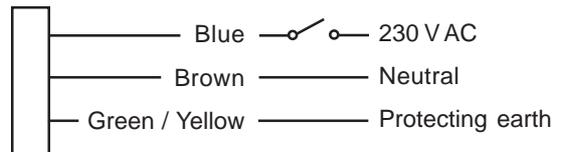
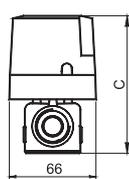
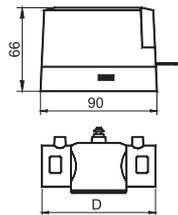
Supply voltage	230 Vac, 50...60 Hz)
Power consumption	6 VA
Actuator type	Synchronous motor
Opening time	9...11 seconds
Closing time (spring)	4...5 seconds
Housing material	Plastic

### Valve

Fluid temperature	-10...+94°C
Operating pressure limits	PN16 (240psi)
Hydraulic test pressure	PN25
Connections	Female thread BSP
Body material	Forged brass
Valve flap material	NBR

## Dimensions, wiring and pressure drop diagram

Model	Dimensions(mm)	
	C	D
DN15,2way	108	80
DN15,3way	118	80
DN20,2way	108	89
DN20,3way	120	89
DN25,2way	110	93
DN25,3way	132	93



## Pressure drop diagram

