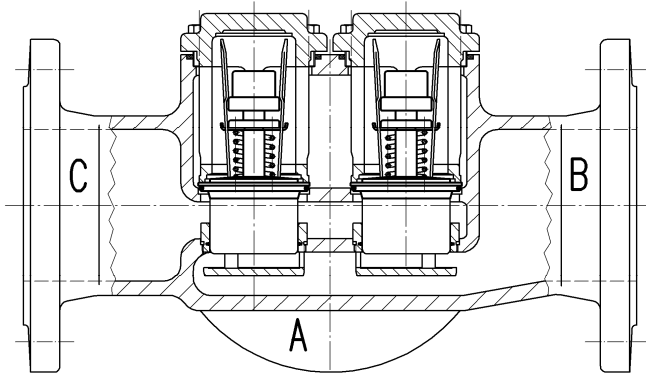


# AKO Temperature Regulator self-actuated

BT 226.0420-GB

**AKO**  
Regelungstechnik

AKO Three-Way-Temperature Regulator  
Type Series 226.0420  
Deliverable sizes: 40, 50, 80, 100 mm



## Technical Data:

|                            |                         |
|----------------------------|-------------------------|
| Material:                  |                         |
| - Body                     | GP240GH                 |
| - Inner Parts              | SS / Brass              |
| Thermostat                 | 237.0120-xxx-0          |
| Sealing Kit                | NBR                     |
| Operating Pressure         | up to 16 bar            |
| adm. Differential Pressure | up to 16 bar            |
| Nominal Pressure           | PN 16                   |
| Connection                 | Flange EN 1092-1 form B |

## Installation:

The installation can be done selectively as follows:

### as divider

path A: from motor  
path B: to bypass  
path C: to cooler

### as mixing valve

path C: from cooler  
path B: from bypass  
path A: to motor

The paths have been marked on the connections.  
The temperature regulator may be installed in all position.

## Deliverable temperature ranges

|            |            |            |             |               |
|------------|------------|------------|-------------|---------------|
| 05 - 15 °C | 35 - 43 °C | 57 - 66 °C | 74 - 82 °C  | 93 - 103 °C*  |
| 14 - 26 °C | 37 - 47 °C | 60 - 69 °C | 77 - 85 °C  | 102 - 113 °C* |
| 20 - 30 °C | 39 - 50 °C | 62 - 71 °C | 79 - 88 °C  |               |
| 27 - 37 °C | 43 - 54 °C | 66 - 74 °C | 82 - 93 °C  |               |
| 29 - 40 °C | 51 - 60 °C | 68 - 78 °C | 85 - 96 °C* |               |
| 32 - 41 °C | 54 - 63 °C | 71 - 79 °C | 88 - 99 °C* |               |

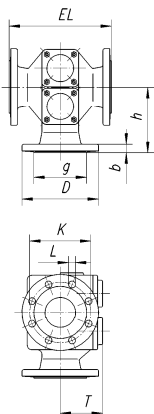
Max. continuous temperature 25 °C above fully open temperature.  
\*maximal operating temperature 120 °C

## Application

AKO Temperature Regulators are suitable for the stabilization of temperatures of media (e. g. water, oils, etc.) and are even applicable as dividing units or mixing valves. Depending on their construction they are distinguished by their low need of maintenance, particular operating convenience and resistance to pressure. A replacement of inner parts is possible on the spot without having to remove the regulating valve from the piping. A faulty assembly can be excluded. The temperature regulators could be assembled in each fitting position.

## Function

AKO Temperature Regulators are being equipped with easily replaceable internal wax-filled thermostats that absorb the temperature of the medium surrounding them at the measurement point namely into expansion and thus a change in path or length (the valve stroke). AKO Temperature Regulators do not require any auxiliary energy. At rising temperature and on excess of the opening temperature, the tube slider is being lifted off on the valve seat and opening path A to C, with the path A to B locking simultaneously in the same ratio. The change is being performed in proportion to the change of temperature of the passing medium.



| order-no.    | DN  | D [mm] | g [mm] | b [mm] | h [mm] | T [mm] | EL [mm] | K [mm] | L [mm] | pieces of thermostats | weight [kg] | KVs [m³/h] |
|--------------|-----|--------|--------|--------|--------|--------|---------|--------|--------|-----------------------|-------------|------------|
| 226.0420-040 | 40  | 155    | 88     | 20     | 102    | 142    | 178     | 110    | 4x18   | 1                     | 13,0        | 24,64      |
| 226.0420-050 | 50  | 165    | 102    | 23     | 150    | 135    | 225     | 125    | 4x18   | 1                     | 18,5        | 38,80      |
| 226.0420-080 | 80  | 209    | 138    | 28     | 171    | 108    | 267     | 160    | 8x18   | 2                     | 34,0        | 85,95      |
| 226.0420-100 | 100 | 254    | 158    | 32     | 217    | 125    | 403     | 180    | 8x18   | 4                     | 58,0        | 156,70     |