

### PN 16 - DN 40...150

KAT-A 2042-G



#### Product characteristics and benefits

- Resilient seated
- Face-to-face length acc. to EN 558-1, basic series 1 (DIN 3202, F1)
- With flange ends on both sides acc. to EN 1092-2
- Control valve in globe valve design for level control in water tanks
- Control devices individually replaceable depending on operating conditions
- Float operated from closed tank
- With body flange

#### Materials

- Body: Ductile cast iron EN-JS 1030 (GGG-40)
- Bonnet: Ductile cast iron EN-JS 1030 (GGG-40)
- Bonnet bolts: Stainless steel A2 (DIN EN ISO 3506)
- Piston guide, stem extension: Bronze
- Piston: Stainless steel 1.4301
- Seat bush: Stainless steel 1.4021
- Valve sealing: NBR
- Float: Stainless steel 1.4571
- Fastening bolt: Stainless steel A4 (DIN EN ISO 3506)
- Floater rods: Stainless steel 1.4571

#### Corrosion protection

- Inside and outside epoxy coating

#### Versions

- Standard version as described
- With angle lever for vertical valve installation

#### Field of Application

- Installation in plants

#### Tests and approvals

- Final inspection test acc. to EN 12266 (DIN 3230 Part 4, final pressure test according to DIN 3230 Part 3, leakage rate 1)

#### Operation data

- Specify operating pressure when inquiring/ordering.:
  - Maximum flow rate and minimum differential pressure
  - Minimum flow rate and maximum differential pressure
  - Static pressure upstream of valve
  - Static pressure downstream of valve
  - Dynamic pressure upstream of valve
  - Dynamic pressure downstream of valve

#### Note

For proper installation and safe operation please follow the installation and operation instructions:

“Installation and Operating Instructions for Valves”

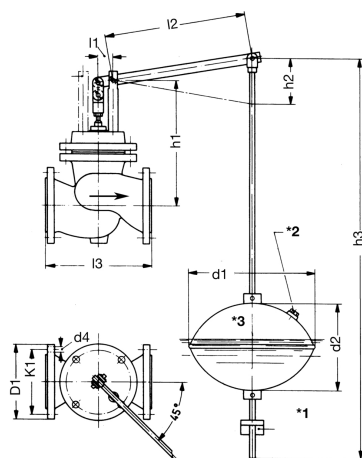
#### Field of application

| DN       | PN | Maximum operating pressure<br>[bar] | Maximum operating temperature for neutral liquids<br>[°C] |
|----------|----|-------------------------------------|-----------------------------------------------------------|
| 40...150 | 16 | 16                                  | 50                                                        |

#### Pressure test acc. to EN 12266

| Test pressure body with water<br>[bar] | Test pressure seat with water<br>[bar] |
|----------------------------------------|----------------------------------------|
| 24                                     | 18                                     |

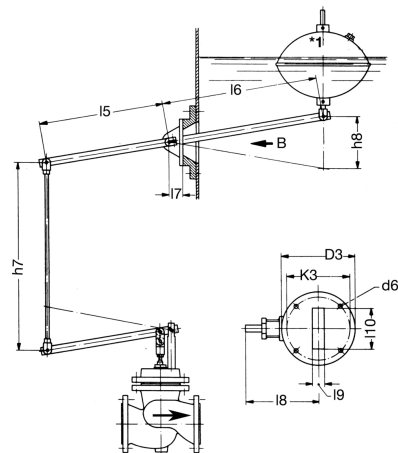
### Drawing



- \*1: Erect rod guidance on site
- \*2: Filling plug
- \*3: Valve closed at maximum water level.

### Type E

With seal body flange for float operation from closed tanks



### Technical data

#### PN 16

| DN                           |        | 40     | 50     | 65     | 80     | 100    | 125    | 150    |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| D1                           | [mm]   | 150    | 165    | 185    | 200    | 220    | 250    | 285    |
| D3                           |        | 140    | 140    | 160    | 160    | 160    | 190    | 190    |
| K1                           | [mm]   | 110    | 125    | 145    | 160    | 180    | 210    | 240    |
| K3                           | [mm]   | 110    | 110    | 125    | 125    | 125    | 150    | 150    |
| d1                           | [mm]   | 285    | 310    | 335    | 335    | 390    | 500    | 500    |
| d2                           | [mm]   | 210    | 220    | 230    | 230    | 230    | 245    | 300    |
| d4                           | [mm]   | 4 x 18 | 4 x 18 | 4 x 18 | 8 x 18 | 8 x 18 | 8 x 18 | 8 x 22 |
| d6                           | [mm]   | 4 x 14 | 4 x 18 | 4 x 18 | 4 x 18 | 4 x 18 | 4 x 18 | 4 x 18 |
| h1                           | [mm]   | 250    | 280    | 310    | 335    | 390    | 420    | 440    |
| h2                           | [mm]   | 210    | 260    | 370    | 415    | 420    | 495    | 600    |
| h3                           | [mm]   | 1000   | 1000   | 1000   | 1000   | 1250   | 1500   | 1500   |
| h7                           | [mm]   | 1000   | 1000   | 1000   | 1000   | 1250   | 1500   | 1500   |
| h8                           | [mm]   | 210    | 260    | 370    | 415    | 420    | 495    | 600    |
| l1                           | [mm]   | 65     | 70     | 85     | 90     | 102    | 90     | 80     |
| l2                           | [mm]   | 600    | 650    | 700    | 750    | 800    | 800    | 800    |
| l3                           | [mm]   | 200    | 230    | 290    | 310    | 350    | 400    | 480    |
| l5                           | [mm]   | 600    | 650    | 700    | 750    | 800    | 800    | 800    |
| l6                           | [mm]   | 600    | 650    | 700    | 750    | 800    | 800    | 800    |
| l7                           | [mm]   | 35     | 55     | 55     | 55     | 55     | 70     | 70     |
| l8                           | [mm]   | 115    | 150    | 150    | 150    | 150    | 160    | 160    |
| l9                           | [mm]   | 20     | 30     | 30     | 30     | 30     | 35     | 35     |
| l10                          | [mm]   | 75     | 120    | 120    | 120    | 120    | 135    | 135    |
| Kvs value FSL 100            | [m³/h] | 23     | 36     | 61     | 92     | 144    | 225    | 325    |
| Kvs value FSL 30             | [m³/h] | 13     | 20     | 33     | 50     | 78     | 122    | 176    |
| Kvs value FSL 15             | [m³/h] | 9      | 14     | 24     | 36     | 56     | 88     | 127    |
| Valve stroke                 |        | 285    | 310    | 335    | 335    | 390    | 500    | 500    |
| Weight version E approx.     | [kg]   | 18.0   | 28.0   | 37.0   | 43.0   | 57.0   | 90.0   | 130.0  |
| Volume for version E approx. | [m³]   | 0.180  | 0.180  | 0.200  | 0.220  | 0.260  | 0.270  | 0.480  |