

## **ZZLP REGULATOR**

### **Self-Operated Flow Regulating Valve**

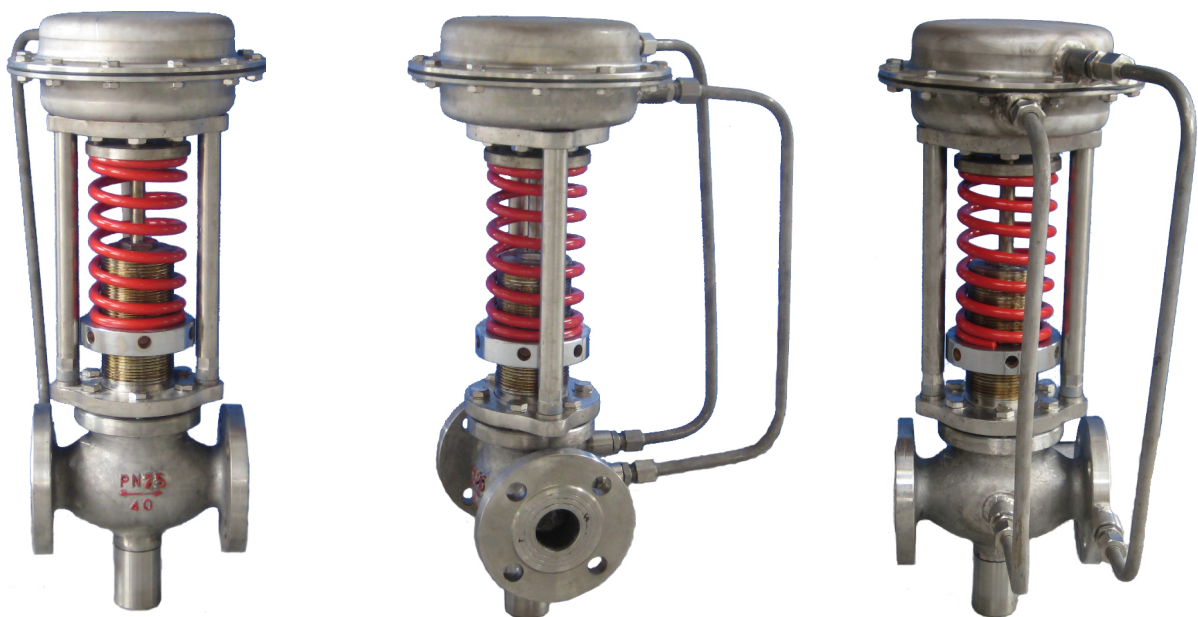
#### **Valve description and operation**

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**ZZLP REGULATOR** is a self-operated flow regulating valve which automatically regulates the flow of the medium by it's own pressure change at the desired set point without the use of external power, it has the function of measuring, execution and regulating.

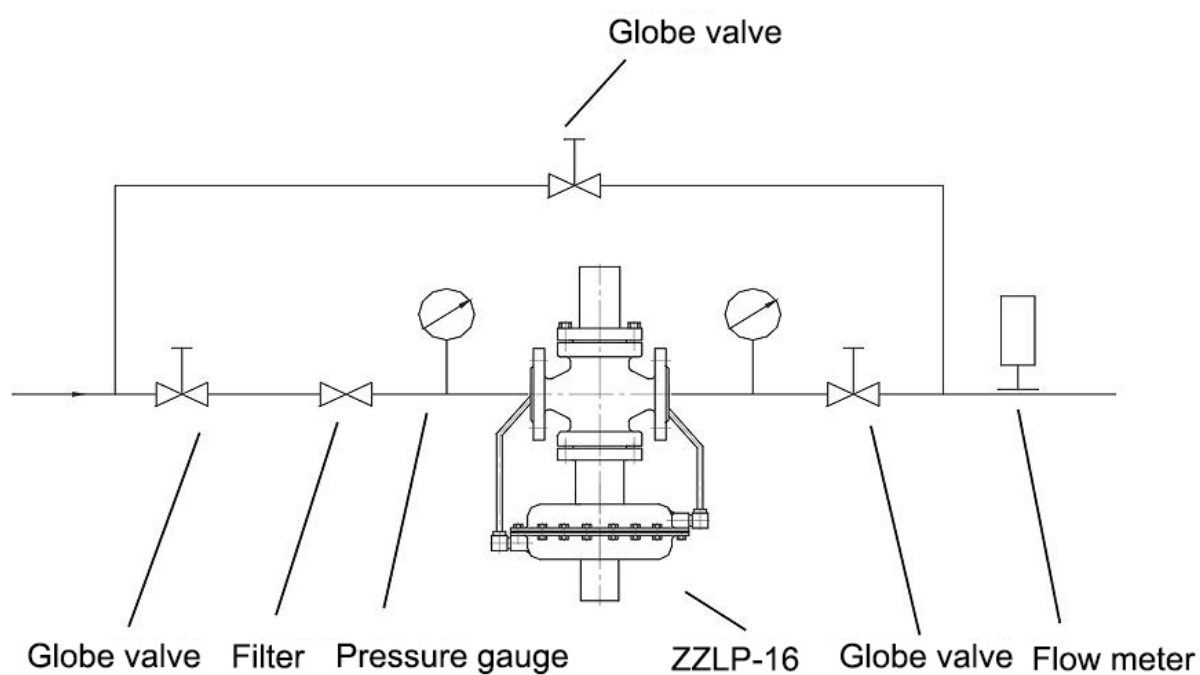
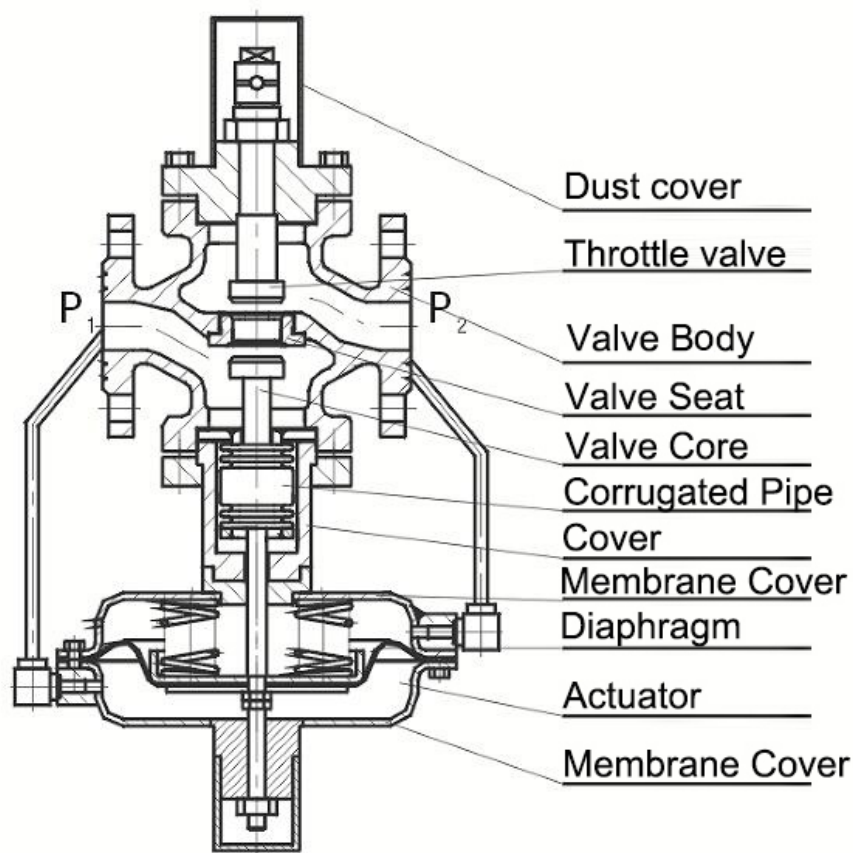
This regulator is widely used in urban heating-supply system, hotel heating-supply system and petroleum, chemical, metallurgy, light industry and other industrial department of automatic control system. Especially suitable for the flow control of non-corrosive, high temperature (up to 200 °C) liquid, gas and steam.

This regulator is designed and manufactured according to the standard of AMSE/API/BS/DIN/GB.



杭州富阳金嘉流体设备有限公司  
Hangzhou Fuyang Jinjia Fluid Equipment Co., LTD

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# 杭州富阳金嘉流体设备有限公司

## Hangzhou Fuyang Jinjia Fluid Equipment Co., LTD

### Valve Parameters

|                                                                      |                         |                                                                     |            |            |            |            |            |            |            |           |           |     |     |     |
|----------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----|-----|-----|
| Nominal diameter<br>DN(mm)                                           |                         | 15                                                                  | 20         | 25         | 32         | 40         | 50         | 65         | 80         | 100       | 125       | 150 | 200 | 250 |
| Kvs                                                                  |                         | 3.2                                                                 | 5          | 8          | 12.5       | 20         | 32         | 50         | 80         | 125       | 160       | 320 | 450 | 630 |
| The effective<br>pressure<br>Force of the<br>Heavy traffic<br>(m3/h) | 0.02<br>MPa             | 1.5                                                                 | 2.5        | 3.5        | 5.5        | 9.0        | 14         | 22         | 36         | 55        | 70        | 140 | 200 | 280 |
|                                                                      | 0.05<br>MPa             | 2.5                                                                 | 3.5        | 5.5        | 9.0        | 12         | 22         | 36         | 55         | 85        | 110       | 220 | 320 | 450 |
| PN16<br>Maximum differential<br>pressure $\Delta P$ (MPa)            |                         | 1.6                                                                 | 1.6        | 1.6        | 1.6        | 1.6        | 1.6        | 1.6        | 1.6        | 1.5       | 1.5       | 1.2 | 1.0 | 1.0 |
| PN40<br>Maximum differential<br>pressure $\Delta P$ (MPa)            |                         | 2.0                                                                 | 2.0        | 2.0        | 2.0        | 2.0        | 2.0        | 2.0        | 2.0        | 1.5       | 1.5       | 1.2 | 1.0 | 1.0 |
| Working<br>Temperature T(°C)                                         |                         | liquid: $\leq 140^{\circ}\text{C}$ ; gas: $\leq 80^{\circ}\text{C}$ |            |            |            |            |            |            |            |           |           |     |     |     |
|                                                                      |                         | With isolation tank: $\leq 200^{\circ}\text{C}$                     |            |            |            |            |            |            |            |           |           |     |     |     |
| Leakage                                                              |                         | Class IV; Class VI                                                  |            |            |            |            |            |            |            |           |           |     |     |     |
| Nominal pressure                                                     |                         | PN16(1.6MPa) PN40(4.0MPa)                                           |            |            |            |            |            |            |            |           |           |     |     |     |
| Set the flow<br>Scope of<br>quantity m3/P<br>Medium:<br>water        | $\Delta P_s$<br>0.02MPa | 0.15<br>~2                                                          | 0.15<br>~2 | 0.15<br>~5 | 0.15<br>~5 | 1.5<br>~12 | 1.5<br>~12 | 2.5<br>~30 | 2.5<br>~30 | 4<br>~70  | 4<br>~70  | /   | /   | /   |
|                                                                      | $\Delta P_s$<br>0.05MPa | 0.15<br>~3                                                          | 0.15<br>~3 | 0.2<br>~8  | 0.2<br>~8  | 2<br>~20   | 2<br>~20   | 4<br>~50   | 4<br>~50   | 6<br>~100 | 6<br>~100 | /   | /   | /   |

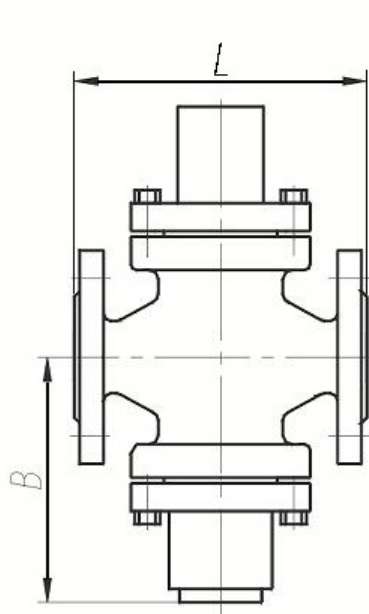
### Valve Material

| Parts                | Material                                                                                |
|----------------------|-----------------------------------------------------------------------------------------|
| Body/Cover           | WCB(ZG230-450);WCC(ZG270-500);WC6(ZG15CRMO);<br>CF8(304);CF8M(316);CF3(304L);CF3M(316L) |
| Core/Seat            | 304(0Cr18Ni9);316(0Cr17Ni12Mo2);316L(00Cr17Ni14Mo2)                                     |
| Packing              | PTFE;R.TFE;Graphite                                                                     |
| Sealing Gasket       | XB350;PTFE;                                                                             |
| Membrane Cover       | A3;304                                                                                  |
| Corrugated Diaphragm | Nitrile Butadiene Rubber                                                                |
| Spring               | 60Si2Mn;50CrVA                                                                          |
| STem                 | 304;316;316L;17-4PH                                                                     |

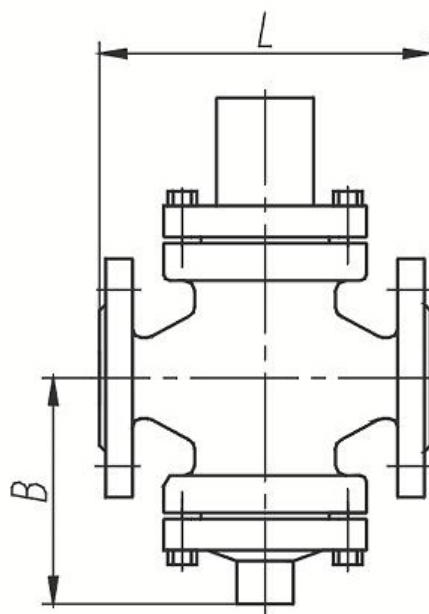
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## Hangzhou Fuyang Jinjia Fluid Equipment Co., LTD

### Overall Dimensions



DN15-125



DN150-250

Units: mm

| Nominal diameter<br>DN(mm) | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| B(mm)                      | 200 | 200 | 200 | 220 | 220 | 260 | 280 | 298 | 330 | 330 | 300 | 330 | 380 |
| L(mm)                      | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 |
| Wight (kg)                 | 17  | 18  | 18  | 21  | 38  | 62  | 93  | 108 | 138 | 175 | 185 | 248 | 530 |

Units: mm

|                                       |        |         |
|---------------------------------------|--------|---------|
| Effective area<br>A(cm <sup>2</sup> ) | 280    | 600     |
| φR(mm)                                | 282    | 394     |
| H(mm)                                 | 150    | 520     |
| Wight (kg)                            | 15     | 27      |
| Nominal diameter<br>DN(mm)            | 15-125 | 150-250 |

