

## **ZZV REGULATOR**

### **Self-Operated Tiny Pressure Regulating Valve**

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

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ZZV REGULATOR is a self-operated tiny pressure regulating valve which automatically regulates the medium pressure at the desired set point without the use of external power, it has all the advantages of which ZZY REGULATORS self-operated pressure regulating valve possesses (Please refer to the details of our ZZY REGULATOR),

especially, it also has the following advantages: 1. it's convenient and quick for pressure setting and it can be reset without stopping the system working; 2. The actuator reaction is particularly sensitive, a little pressure change can be perceived; 3. it's suitable for the occasion of very low pressure regulating.

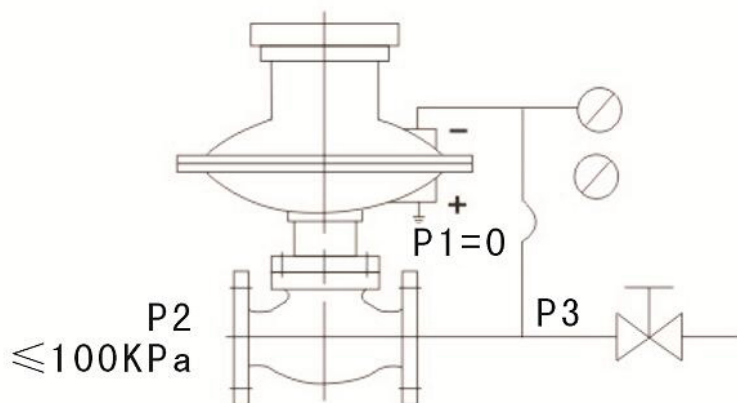
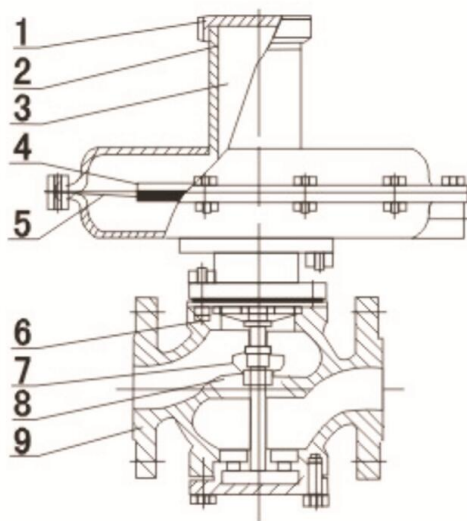
This regulator applies for the following particular working conditions: 1. The closure-oil system for Hydrogen Cooling Generators; 2. The Cycling fan flow regulating for fan heating system; 3. The regulating of the two different gas flow ratio; 4. Bypass regulating for the pump.

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



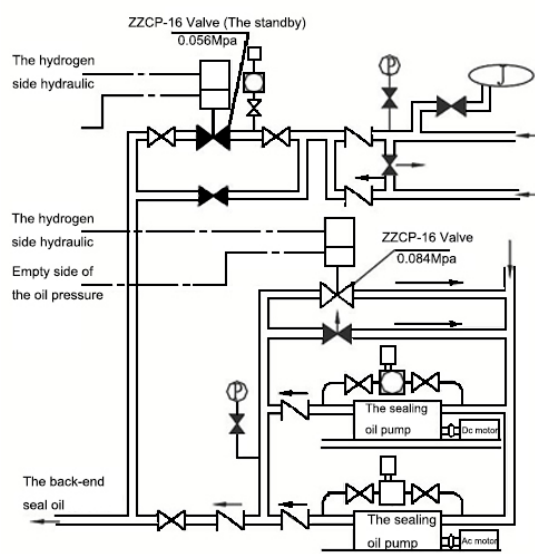
# 杭州富阳金嘉流体设备有限公司

## Hangzhou Fuyang Jinjia Fluid Equipment Co., LTD

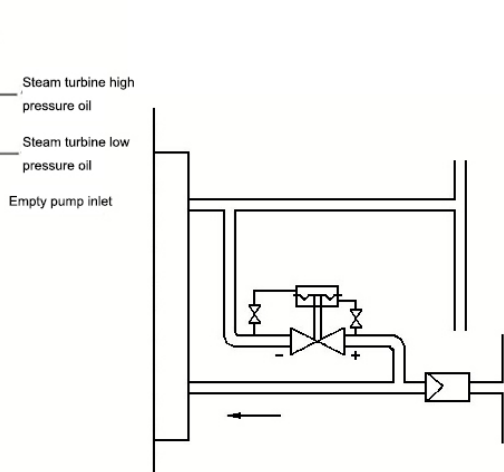


Tiny Pressure Regulating Principle

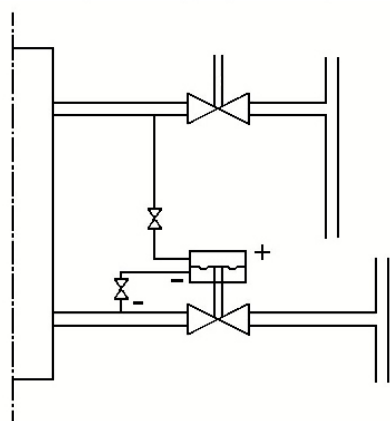
1. Cover 2. Spring seat 3. Spring 4. Tray 5. Diaphragm 6. Small diaphragm  
7. Valve core 8. Valve seat 9. Body



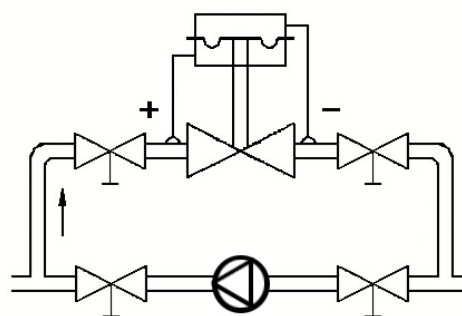
A: The closure-oil system for Hydrogen Cooling Generators



B: The Cycling fan flow regulating for fan heating system



C: The regulating of the two different gas flow ratio



D: Bypass regulating for the pump

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**Valve Parameters**

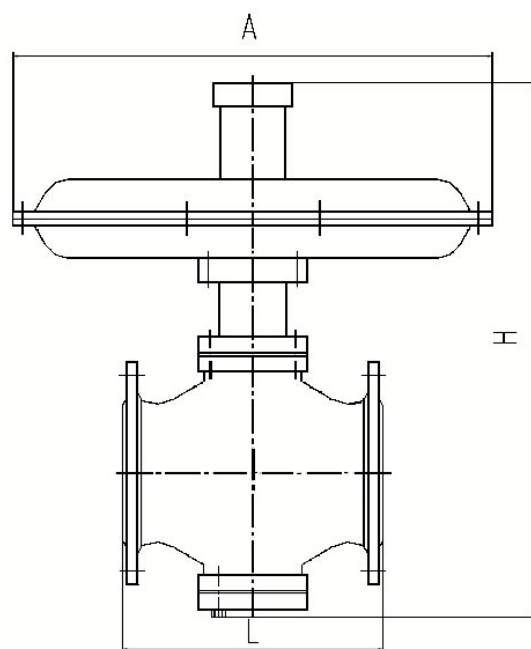
|                             |                    |       |        |       |       |       |    |     |
|-----------------------------|--------------------|-------|--------|-------|-------|-------|----|-----|
| Nominal diameter<br>DN(mm)  | 20                 | 25    | 32     | 40    | 50    | 65    | 80 | 100 |
| Coefficient(KV)             | 5                  | 8     | 12.5   | 20    | 32    | 50    | 80 | 125 |
| Rated stroke(mm)            | 8                  |       | 10     |       | 12    | 15    | 18 | 20  |
| Nominal pressure<br>PN(MPa) | 0.10      1.0      |       |        |       |       |       |    |     |
| pressure range<br>KPa       | 0.5~5.5            | 5~10  | 9~14   | 13~19 | 18~24 | 22~28 |    |     |
|                             | 26~33              | 31~38 | 36~44  | 42~51 | 49~58 | 56~66 |    |     |
|                             | 64~78              | 76~90 | 88~100 |       |       |       |    |     |
| Working<br>TemperatureT(℃)  | ≤80                |       |        |       |       |       |    |     |
| Adjust the accuracy         | ≤10                |       |        |       |       |       |    |     |
| Leakage                     | Class IV; Class VI |       |        |       |       |       |    |     |

**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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Overall Dimensions



Units: mm

| DN                              | 20      | 25  | 32  | 40  | 50  | 65  | 80  | 100 |
|---------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|
| A                               | 308     | 394 | 308 | 394 | 308 | 394 | 394 | 394 |
| H                               | 376     | 465 | 365 | 445 | 445 | 490 | 490 | 510 |
| L                               | 150     | 160 | 180 | 200 | 230 | 290 | 310 | 350 |
| Weight (Kg) (PN16)              | 12      | 18  | 25  | 32  | 45  | 58  | 68  | 76  |
| Pressure pipe thread connection | M16×1.5 |     |     |     |     |     |     |     |