

# Preparation unit—Filter & regulator



## GFR Series

### Specification

| Model                  | GFR200-06  | GFR200-08 | GFR300-08 | GFR300-10 | GFR300-15 | GFR400-10 | GFR400-15 | GFR600-20 | GFR600-25 |
|------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Fluid                  | Air  |           |           |           |           |           |           |           |           |
| Port size              | 1/8"   | 1/4"      | 1/4"      | 3/8"      | 1/2"      | 3/8"      | 1/2"      | 3/4"      | 1"        |
| Filtering grade        | 40 μm or 5 μm  |           |           |           |           |           |           |           |           |
| Pressure range         | Semi-auto and automatic drain: 0.15~0.9MPa(20~130psi); Manual drain: 0.05~0.9MPa(7~130psi) |           |           |           |           |           |           |           |           |
| Max. pressure          | 1.0MPa(145psi)   |           |           |           |           |           |           |           |           |
| Proof pressure         | 1.5MPa(215psi)   |           |           |           |           |           |           |           |           |
| Temperature range      | -20~70°C   |           |           |           |           |           |           |           |           |
| Capacity of drain bowl | 10CC   |           |           | 40CC      |           |           | 80CC      |           | 230CC     |
| Weight                 | 220g   |           |           | 500g      |           |           | 1030g     |           | 2400g     |

### Ordering code

GFR200 08 M L   F 1 W P K

**Model**

- GFR200: G200 Series filter-regulator
- GFR300: G300 Series filter-regulator
- GFR400: G400 Series filter-regulator
- GFR600: G600 Series filter-regulator

**Port size**

| Model | Port size |
|-------|-----------|
| GC200 | 06: 1/8"  |
|       | 08: 1/4"  |
| GC300 | 08: 1/4"  |
|       | 10: 3/8"  |
|       | 15: 1/2"  |
| GC400 | 10: 3/8"  |
|       | 15: 1/2"  |
| GC600 | 20: 3/4"  |
|       | 25: 1"    |

**Code of reflux valve**

- Blank: No reverse flow valve is attached
- K: Reverse flow valve is attached

**Thread type**

- P: PT
- T: NPT
- G: G

**Filtering grade**

- Blank: 40 μm
- W: 5 μm

**Scale**

- 1: MPa
- 2: psi
- 3: bar

**Pressure gauge shape**

- F: Square
- C: Circular

**Pressure gauge**

- Blank: Pressure gauge
- N: No pressure gauge

**Accessories**

- Blank: Bracket
- J: No bracket

**Drain type**

| Drain type             | Adaptable product's series |
|------------------------|----------------------------|
| Blank: Semi-auto drain | GFR200, GFR300             |
| M: Manual drain        | GFR400, GFR600             |
| A: Automatic drain     | GFR300, GFR400, GFR600     |

**Type code**

- Blank: Standard
- L: Lower pressure ①

① The maximum work pressure of lower pressure type is 0.4MPa(58psi). ② Please refer to page 148 for details of reflux valve.

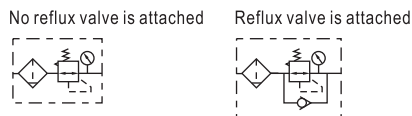
### Inner structure and material of major parts

| No. | Item                     | Material   |
|-----|--------------------------|--|
| 1   | Drain bowl               | Aluminum alloy(GFR600)\PC(others)                                |
| 2   | Umbrella baffle          | High viscosity POM   |
| 3   | Filter core              | GFR600 Agglomerated by brass grain                               |
|     |                          | others: 40 μm Agglomerated by brass grain<br>5 μm Makrolon fiber |
| 4   | Air guider               | High viscosity POM   |
| 5   | O-ring                   | NBR  |
| 6   | Body of filter-regulator | Aluminum alloy   |
| 7   | Adjusting spool          | Brass (GFR600)\POM(others)                                       |
| 8   | O-ring                   | NBR  |
| 9   | Diaphragm                | SUS304 & Rubber  |
| 10  | Fixation ring cap        | Aluminum alloy(GFR600)\POM(others)                               |
| 11  | Adjusting spindle        | Steel  |
| 12  | Regulator nut            | Steel  |
| 13  | Pressure knob            | POM  |
| 14  | Spring                   | SWC  |
| 15  | Adjusting seat           | Aluminum alloy(GFR600)\POM(others)                               |
| 16  | Feedback tube            | POM  |
| 17  | Adjusting plug           | Brass & Rubber   |
| 18  | O-ring                   | NBR  |
| 19  | Spring                   | SUS304   |
| 20  | Liquid meter cover       | SPCC   |
| 21  | Liquid meter seal        | VITON  |
| 22  | Liquid meter inside      | PC   |



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### Symbol



### Product feature

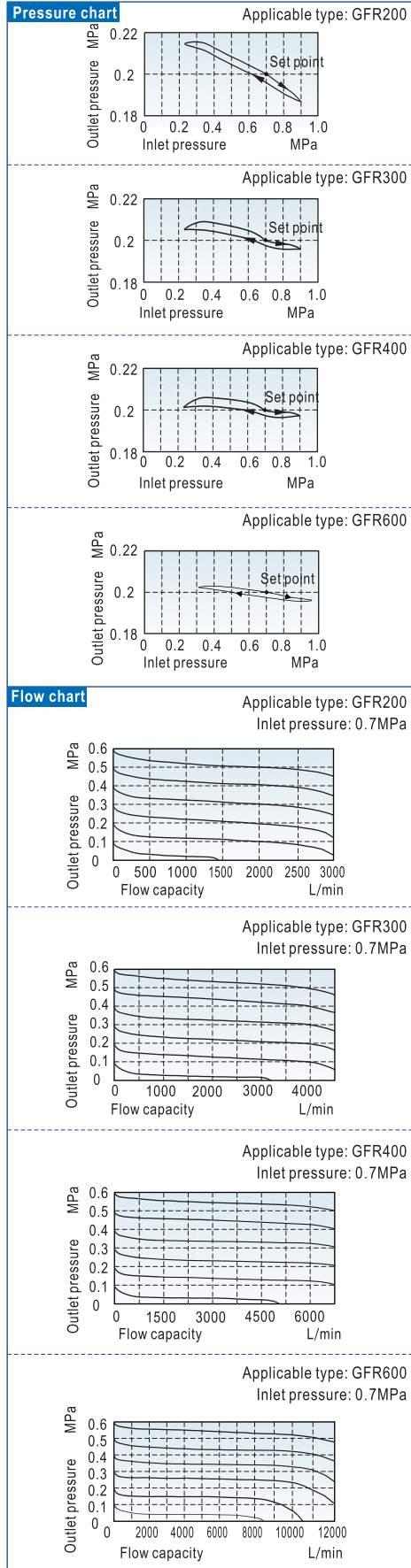
1. Embedded square pressure gauge is used to save installation space. (External circular pressure gauge is also optional).
2. The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
3. Balanced design is adopted for the pressure adjustment mechanism.
4. In addition to standard type, lower pressure type is optional (The highest adjustable pressure is 0.4MPa).
5. Unique diversion structure spins the air flowing through to effectively separate the liquid from the air and reliably filter the solid grain.
6. The filtering grade includes 5 μm and 40 μm (optional).
7. Three drain types are available: manual drain, semi-auto drain and automatic drain.
8. The bracket can be selected for installation.

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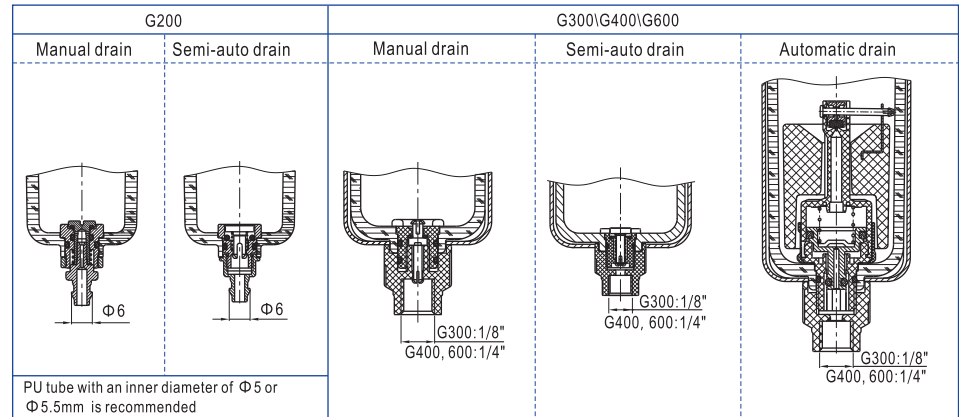


## GFR Series

### Pressure and feature of flow



### Selection of drain mode



### Dimensions

