



1. Designed to prevent air bubble accumulation ensuring smooth flow inside suction filter with case.
2. Perfectly suited for variable displacement pumps as a suction filter.
3. Detachable magnet attracts metal particles resulting in extending life of pump and spool valve.
4. Detachable magnet enables quick and easy cleaning. (See Fig. A)
5. Indicator (Additional Option) detects negative pressure at the outlet of filter (inlet of pump), visual or electric indicator is available.
6. Relief valve (Additional Option) installed at the bottom of element is actuated by differential pressure.
7. Stainless steel wire elements of 60,100,150 and 200 mesh are provided as standard.
8. Please contact us for use of fluids other than mineral oil on O-rings and other parts.

4-1. Detachable magnet must be pulled out from element after taking out the element with upper cover.

4-2. When the magnet is pulled out, metal particles fall down.

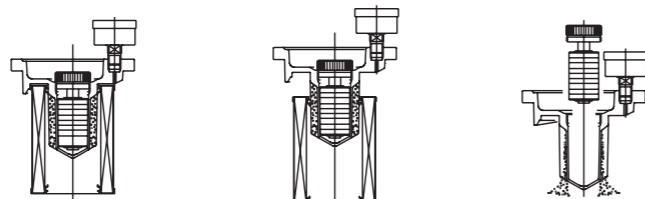
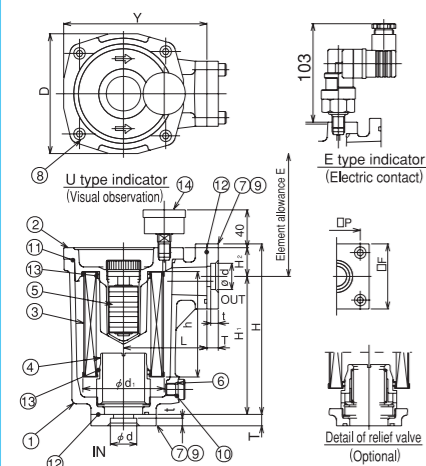


Fig. A

### Part List

| Part No. | Part Name        | Material | Qty | Remarks       |
|----------|------------------|----------|-----|---------------|
| 14       | Indicator        |          | 1   | Option        |
| 13       | O-ring           | NBR      | 2   | JISB 2401. 1A |
| 12       | O-ring           | NBR      | 2   | JISB 2401. 1A |
| 11       | O-ring           | NBR      | 1   | JISB 2401. 1A |
| 10       | O-ring           | NBR      | 1   | JISB 2401. 1A |
| 9        | Cap bolt         | SCM435   | 8   |               |
| 8        | Cap bolt         | SCM435   | 4   |               |
| 7        | Companion flange | SS400    | 2   |               |
| 6        | Drain plug       | SCM435   | 1   | G1/4          |
| 5        | Magnet           |          | 1   |               |
| 4        | Element holder   | A5056    | 1   |               |
| 3        | Element          | SUS SECC | 1   |               |
| 2        | Upper cover      | ADC12    | 1   |               |
| 1        | Body             | AC2B     | 1   |               |



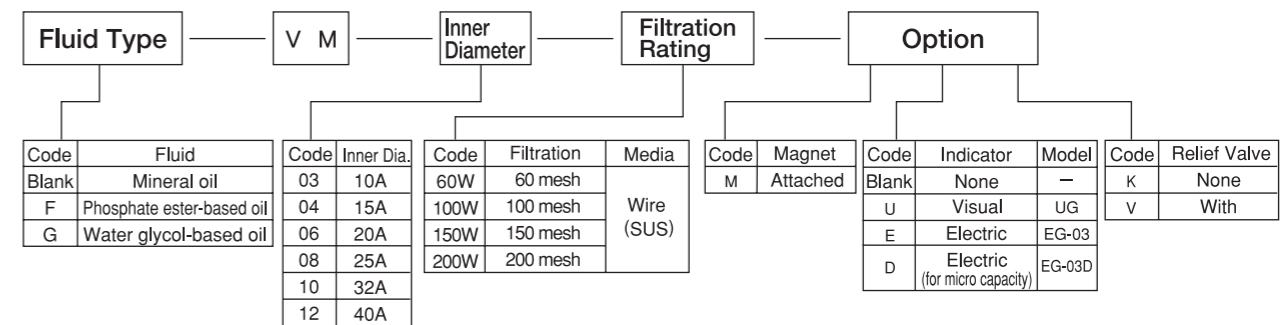
### Dimensions and Standard Flow Rates

| Model | Symbol | Inner Dia. | H   | H <sub>1</sub> | H <sub>2</sub> | L   | D   | Y     | Companion Flange |    |      |    | Bolt 8,9 | Element Allowance E | Element h | Element d <sub>i</sub> | Mass (kg) | Standard Flow Rate (ℓ/min) |     |
|-------|--------|------------|-----|----------------|----------------|-----|-----|-------|------------------|----|------|----|----------|---------------------|-----------|------------------------|-----------|----------------------------|-----|
|       |        |            |     |                |                |     |     |       | d                | F  | P    | T  |          |                     |           |                        |           |                            |     |
| VM-03 |        | 10A        |     |                |                |     |     |       | 18               | 60 | 39.6 | 12 | 8        | M8×25               | 150       | 90                     | 65        | 2.3                        | 18  |
| VM-04 |        | 15A        | 155 | 125            | 28             | 77  | 104 | 129   | 22               | 68 | 50   | 12 | 8        | M8×25               | 170       | 110                    | 85        | 3.3                        | 30  |
| VM-06 |        | 20A        | 177 | 143            | 31.5           | 87  | 125 | 149.5 | 27.5             | 82 | 60.8 | 14 | 9        | M10×30              | 230       | 160                    | 100       | 5.8                        | 45  |
| VM-08 |        | 25A        |     |                |                |     |     |       | 34.5             |    |      |    |          |                     |           |                        |           |                            | 90  |
| VM-10 |        | 32A        | 234 | 192            | 41             | 105 | 150 | 180   | 43               |    |      |    |          |                     |           |                        |           |                            | 150 |
| VM-12 |        | 40A        |     |                |                |     |     |       | 49               |    |      |    |          |                     |           |                        |           |                            | 205 |

### O-ring

| Part No. | 10 | 11   | 12  | 13  |
|----------|----|------|-----|-----|
| VM-03    |    | G80  | G30 | G35 |
| VM-04    |    |      |     |     |
| VM-06    |    | G100 | G45 | G50 |
| VM-08    |    |      |     |     |
| VM-10    |    | G125 | G55 | G65 |
| VM-12    |    |      |     |     |

### Model Code



Coding Example F-VM-08-150W-MUK

### Spares

#### Element



Coding example: P-F-VM-08-150W

#### Sealing parts set

● For element replacement (Part No. with © in "O-ring".)



Coding example: SP-F-VM-08

● For overhaul

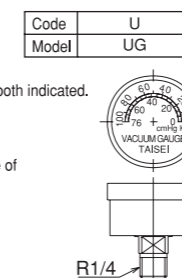


Coding example: SA-F-VM-08

### Indicator

#### U type indicator (Visual)

- Unit of pressure "kPa" and "cmHg" both indicated.
- U type indicator is auto reset type.
- Relief valve opens at a differential pressure of 40 kPa.



#### E type indicator (Electric)

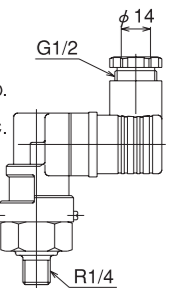
- Operating pressure Switch pressure: 30 kPa
- Wire outlet uses DIN connector and price-tube of G(PF)1/2 can also be installed.
- DIN connector allows wire outlet to be set in any direction at intervals of 90 degrees.
- Terminal block is provided in DIN connector.
- E type indicator is auto reset.

| Code  | E/D          |
|-------|--------------|
| Model | EG-03/EG-03D |

DIN Connector Standard IEC529 (EN60529) IP65 compatible.

- Indicator wiring and terminal No. ○2, NO. ○3, NC.

| Rated Voltage | Micro switch electric rating |                |
|---------------|------------------------------|----------------|
|               | Resistance Load              | Inductive Load |
| 250V AC       | 3A                           | 2A             |
| 30V DC        | 3A                           | 2A             |



### Flow Rate Chart

- ISO VG32
- Viscosity: 32 cSt (40°C)

