

# PRESSURE REDUCING CONTROL VALVES

## FAF 7410

7410



### PRODUCTION STANDARTS

DN50 → DN300

|                             |   |
|-----------------------------|---|
| <b>Operation Pressure</b>   | 0,7 - 16 bar (10 - 240 psi)                         |
| <b>Connection</b>           | Flanged EN1092-2<br>Threaded ISO (BSP) - ANSI (NPT) |
| <b>Corrosion Protection</b> | Electrostatic Powder Epoxy                          |

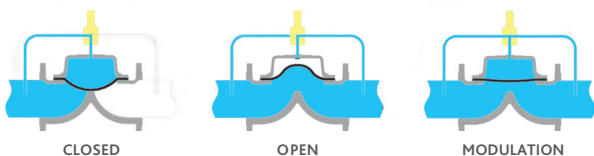
### Features

- No need for extra energy by running on pressure network
- Easy and zero adjustment to demanded pressure
- Pressure reduction without being affected by pressure and flow changes in network
- Manual switch on/off
- Easy maintenance provides minimum pressure loss and free flow in open valve at demanded flow amounts.
- Easy use and maintenance due to simple design.
- There is no corroding shaft, palier or gasket in valves.
- Does not require maintenance in operation for a long time due to its corrosion resistant components.
- Has a long working life in operation since coating has been made with phosphorization and over-dried epoxy powder paint.
- Performs perfect modulation in variable flows and even too low flow rates close to zero.
- Has a wide range of application with use of different pilot valves.

### Temperature

- -10 °C +80 °C

### Working Principle



### Product Description

FAF7410 Pressure Reducing Control Valve regulates the outlet pressure. The pilot installed on it adapts high inlet pressure to stay fixed as demanded outlet pressure value. it is not affected by pressure and flow changes.

### Adjustment

- Small globe valve on outlet side is closed on main valve. When pilot valve tappet on the valve is rotated clockwise, adjusting pressure rises and when rotated counterclockwise, adjusting pressure decreases. Small globe valve on outlet side is opened by screwing the lock nut under the adjusting bolt when demanded pressure value is maintained.

### Scope of Application

- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications
- Household implementation

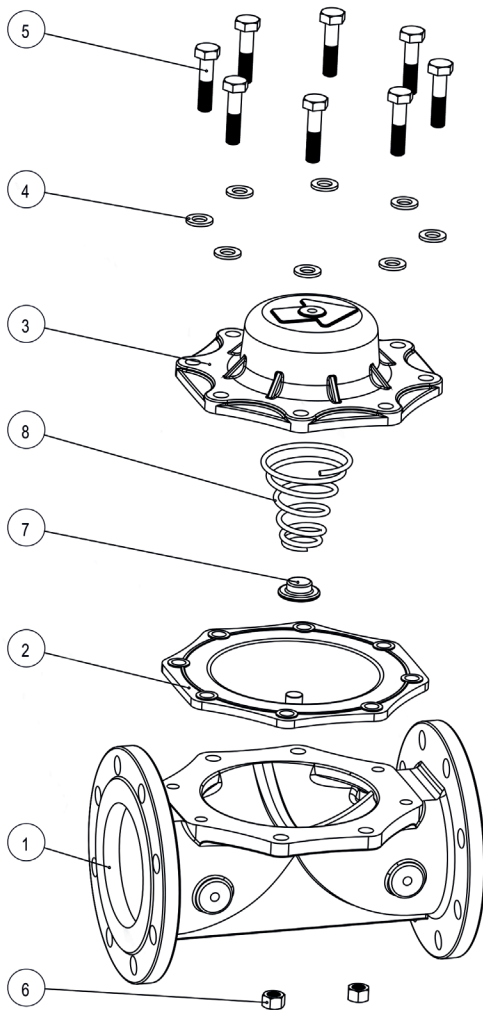
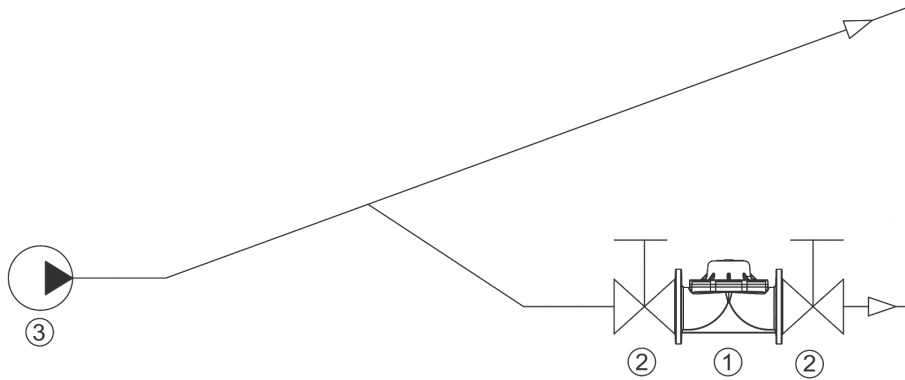
### Note

- For proper use and safety precautions please follow the installation and operating instructions.

# PRESSURE REDUCING CONTROL VALVES

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### Model Application



| NO | PARTS                   |
|----|-------------------------|
| 1  | Pressure Reducing Valve |
| 2  | Insulating Valve        |
| 3  | Pump                    |

### CONTROL VALVES MODEL CODES

|          |   |
|----------|---|
| FAF 7410 | Pressure Reducing Control Valve                       |
| FAF 7420 | Solenoid Controlled Pressure Reducing Control Valve   |
| FAF 7430 | Pressure Sustaining Control Valve                     |
| FAF 7440 | Pressure Sustaining - Pressure Reducing Control Valve |
| FAF 7450 | Pressure Relief Control Valve                         |
| FAF 7460 | Float Level Control Valve                             |
| FAF 7470 | Electric Float Level Control Valve                    |
| FAF 7480 | Surge Anticipating Control Valve                      |
| FAF 7490 | Flow Control Valve                                    |
| FAF 7500 | Horizontal Pump Control Valve                         |
| FAF 7510 | Vertical Pump Control Valve                           |
| FAF 7520 | Solenoid Control Valve                                |
| FAF 7530 | Manual Control Valve                                  |

| NO | ITEM               | MATERIALS                              |
|----|--------------------|--|
| 1  | BODY               | EN-GJL-250 CAST IRON (GG25)            |
| 2  | DIAPHRAM           | COURT FABRIC-REINFORCED NATURAL RUBBER |
| 3  | COVER              | EN-GJL-250 CAST IRON (GG25)            |
| 4  | WASHER             | PLATED STEEL                           |
| 5  | BOLT               | PLATED STEEL                           |
| 6  | NUT                | PLATED STEEL                           |
| 7  | SPRING THRUST RING | POLYAMID                               |
| 8  | SPRING             | SST 302                                |

### VALVE TEST PRESSURE (Bar)

| MAX. OPERATING PRESSURE | BODY / SHELL TEST | SEAT TEST |
|-------------------------|-------------------|-----------|
| 16                      | 24                | 17,6      |

100% of the valves are subjected to leakiness tests at FAF facilities.

7410

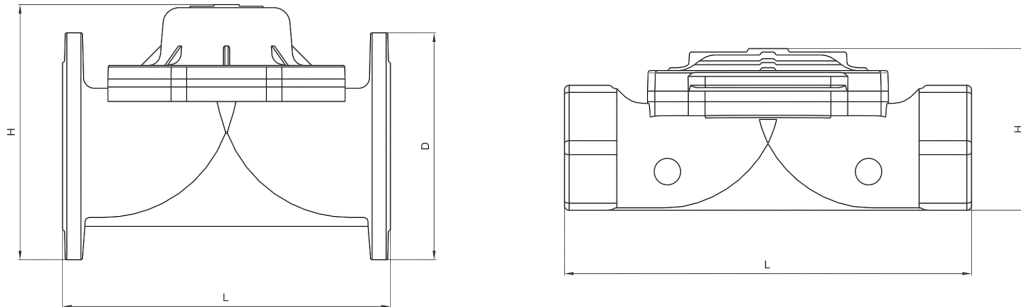
# PRESSURE REDUCING CONTROL VALVES

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### Dimensions And Weight



### Flanged Valves

| DN   |     | L    |     | D    |     | H    |     | WEIGHT |      |
|------|-----|------|-----|------|-----|------|-----|--------|------|
| inch | mm  | inch | mm  | inch | mm  | inch | mm  | lbs    | kg   |
| 2"   | 50  | 8    | 204 | 6.4  | 165 | 6.4  | 165 | 33     | 15   |
| 2½"  | 65  | 8.1  | 206 | 7.2  | 185 | 7.2  | 185 | 36     | 16.5 |
| 3"   | 80  | 11.4 | 290 | 7.8  | 200 | 7.8  | 200 | 57     | 26   |
| 4"   | 100 | 11.6 | 296 | 8.6  | 220 | 8.6  | 220 | 61     | 28   |
| 5"   | 125 | 12.3 | 314 | 9.8  | 250 | 9.8  | 250 | 72     | 33   |
| 6"   | 150 | 16.2 | 413 | 11.2 | 285 | 12.6 | 321 | 125    | 57   |
| 8"   | 200 | 18.5 | 470 | 13.3 | 340 | 18.8 | 403 | 187    | 85   |
| 10"  | 250 | 18.5 | 470 | 16   | 407 | 17   | 433 | 226    | 103  |
| 12"  | 300 | 20.8 | 530 | 18.3 | 466 | 19.5 | 497 | 316    | 145  |

### Threaded Valves

| DN   |    | L    |     | H    |     | WEIGHT |    |
|------|----|------|-----|------|-----|--------|----|
| inch | mm | inch | mm  | inch | mm  | lbs    | kg |
| 2"   | 50 | 8.1  | 206 | 4.2  | 107 | 28.6   | 13 |
| 2½"  | 65 | 9    | 230 | 4.3  | 110 | 30.8   | 14 |
| 3"   | 80 | 13.7 | 350 | 5.7  | 145 | 44     | 20 |

### Suggested Operating Valves

|                    |                               |                             |
|--------------------|-------------------------------|-----------------------------|
| Operating Pressure | Standard                      | 0,7 - 16 bar (10 - 240 psi) |
| Temperature        | Minimum Operating Temperature | -10°C                       |
|                    | Maximum Operating Temperature | +80°C                       |
| Connec tion        | Flanged                       | EN1092-2 ISO 7005-2         |
|                    | Threaded                      | ISO (BSP) - ANSI (NPT)      |
| Coating            | Standard                      | Polyester                   |
|                    | Optional                      | Epoxy                       |