

- a** 3- way selector valve
- b** Ball Valves
- c** In-line Finger Filter
- d** Differential Pressure Sustaining Pilot
- e** Pressure Gauge

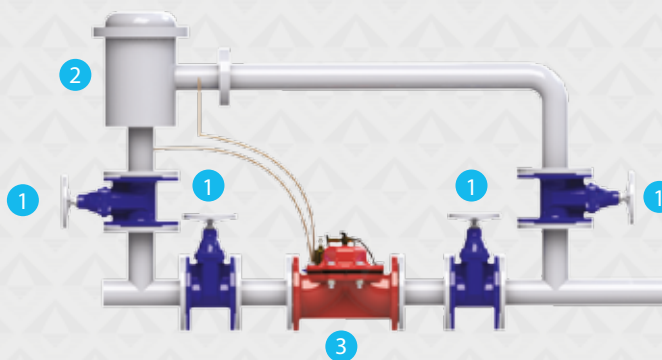
Description

Armaş "DIF" model Differential Pressure Sustaining Valve is the hydraulic control valve which maintains a preset pressure differential between its upstream and downstream sides. Required upstream pressure can be adjusted by the pilot easily. The valve can control heating and cooling systems, booster pump discharge, bypass lines, filters and other similar systems.

Installation

- When connect the valve to the pipeline, please make sure that it should be same position with the pipeline.
- Mount valve in direction of arrow indicated on it.
- When connect the valve to the pipeline, please add a gasket for providing leak proofing between valve's flange and pipe's flange and tighten the bolts cross.
- It is recommended that insulation valves (butterfly or gate valves etc.), air relief valve, quick pressure relief valve (QR) and strainer valves will be used in line-mounting of valve.

Typical Application



- 1** Isolation Valve (Gate, Butterfly Valve etc.)
- 2** Strainer
- 3** Differential Pressure Sustaining Valve
- 4** Pump
- 5** Check Valve

Adjustment

- Open ball valves (b1) and (b2) which are located on the valve.
- Operate pump, open main valve on network and deliver water to the system.
- Turn the adjustment bolt which is located on the pilot valve (d) to anticlockwise. Upstream and downstream pressure will be equal.
- Make sure that the air inside of the system has discharged.
- Adjust upstream and downstream pressure difference by use adjustment bolt which is located on the pilot valve.
- When adjustment bolt is tighten to clockwise, upstream and downstream pressure difference is increased. If the bolt is tighten to anticlockwise, upstream and downstream pressure difference is decreased.

Troubleshooting

| Failure | Causes | Correcting/Repair |
|-------------------------|---|---|
| Valve not opening | <ul style="list-style-type: none"> • Ball valves in valve upstream and downstream may be closed. • Valve upstream pressure may be too low. • Adjustment pressure of the pilot valve can be higher than line pressure. • Needle valve which is located on the pilot valve can be closed. | <ul style="list-style-type: none"> • Check ball valves and open them if they are closed. • Check your system. • Bring pressure value into adjusting value by means of adjustment bolt. • Open needle valve one or two tours according to system adjustment. |
| Valve not closing | <ul style="list-style-type: none"> • Diaphragm may be punctured. • Foreign substances may exist in diaphragm seat. • Connections of pilot valve may be clogged because of foreign substances. • Finger filter may be clogged. | <ul style="list-style-type: none"> • Check diaphragm and replace with the new one if it is punctured. • Check diaphragm seat and remove foreign substances if any. • Check connections and clean them. • Clean if it is clogged. |
| Valve does not regulate | <ul style="list-style-type: none"> • Movable parts of pilot valve may be clogged because of calcification. • Needle valve adjusting point may be wrong. • Pressure gauge may be failed. | <ul style="list-style-type: none"> • Replace with new one. • Close needle valve fully and open it one to two tours. • Replace with new one. |

Order Information

Please submit following information to our sales department while ordering.

Maximum flow rate _____ m³/h
 Maximum network/line pressure _____ bar
 Main line size _____ mm
 Valve connection type _____
 Maximum upstream pressure _____ bar
 Minimum upstream pressure _____ bar
 Desired pressure difference value _____ bar

Sample order form

| Model | Connection | Size | Control Feature | Additional Features | Options |
|-----------|------------------------|-----------|----------------------------------|-----------------------------|--------------------|
| 67-67D | F: Flanged (ISO-ANSI) | 2"-16" | Differential Pressure Sustaining | SV-3: 3-Way Selector Valve | Position Indicator |
| 66-66D-64 | TH: Threaed (BSPT-NPT) | 1½"-3" | | NV: On/Off Speed Adjustment | |
| 63-63D | VIC: Grooved End | 2"-4" | | EL: Electric Control | |
| 67 | F | 6" | DIF | EL | PIR |