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| a 3- way selector valve | d Plug |
| b Ball Valve | e Flow Rate Control Pilot Valve |
| c In-line Finger Filter | f Orifice Plate |

Description

Armaş "FR" modell flow rate control valve is designed to limit desired flow rate. The orifice on main valve upstream creates pressure difference and 3/way differential pressure set pilot mounted in control chamber of valve senses this pressure difference and ensures that main valve opens in desired flow rate. Valve thereby limits desired flow rate automatically and keeps it fixed. It eliminates over flow by preventing excessive flow during reverse washing in filtration systems.

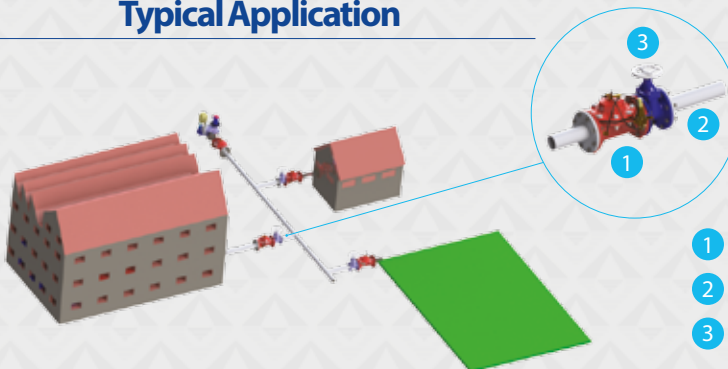
Features

- Valve adjusts by itself automatically even in changing flow rates.
- Valve is closed by itself as fully sealed in case no flow exists in the system.
- Valve is opened fully when nominal flow rate decreases below limited flow rate.
- Valve may be used in the system by mounting it vertical or horizontal positions

Installation

- Make sure that valve is on a level with the pipeline while mounting it.
- Mount valve in direction of arrow indicated on it.
- When orifice is connected to pipeline, mount in such a way that tightness between upstream flange and pipe flange will be ensured.
- Mount hydraulic control lever of pilot valve before valve and orifice conveniently.
- It is recommended that insulation valves (butterfly or gate valves etc.), air relief valve and strainer valves will be used in line-mounting of valve (see sample montage illustration).

Typical Application



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| 1 Flow Rate Control Valve |
| 2 Hydraulic Signal Line |
| 3 Isolation Valve (Gate, Butterfly Valve etc.) |

Adjustment

- Start pump or open main valve of network and deliver water to system.
- Open ball valve indicated with "b1".
- Bring 3-way selector on valve into "auto" position.
- Adjustment bolt of pilot valve is factory adjusted. Do not make any processes with it. Consult us if valve does not perform regulation function

Maintenance

- Check finger filter indicated with "c" according to water quality and clean it. Do not make cleaning more than one within a few months unless water is too dirty.
- Drain water within actuator and pilot valves of valves not used in winter.
- Check downstream pressure value continuously.
- Consult us if valve does not perform regulation function.

Pilot Valve Pressure Adjustment Range

Standard Differential Pressure Range	3 - 8 m	2 - 12 psi
Medium Differential Pressure Range	10 - 40 m	14 - 56 psi
High Differential Pressure Range	14 - 100 m	10 - 140 psi

Troubleshooting

Failure	Causes	Correcting/Repair
Valve not opening	<ul style="list-style-type: none"> • 3-Way selector valve may be closed. • Line pressure may be low. • Upstream ball valve may be closed. 	<ul style="list-style-type: none"> • Check 3-Way selector valve and bring it into "Auto" position. • Check valve upstream pressure and ensure necessary upstream pressure. • Open ball valve.
Valve not closing	<ul style="list-style-type: none"> • Diaphragm may be punctured. • Foreign substances may exist in diaphragm seat. • Connections of pilot valves 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. • Clean if it is clogged.
Valve does not regulate	<ul style="list-style-type: none"> • Movable parts of differential float pilot valve may be clogged due to calcification. • Orifice plate used before valve may be mounted wrongly. 	<ul style="list-style-type: none"> • Replace it with the new one. • Ensure sealing between flanges and plate by mounting orifice plate according to sample moutage illustration.

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
 Desired flow rate _____ m³/h

Sample order form

Model	Connection	Size	Control Feature	Additional Features	Options
67-67D	F: Flanged (ISO-ANSI)	2"-16"	Flow Rate Control	NV: On/Off Speed Adjustment	Position Indicator
66-66D-64	TH: Threaded (BSPT-NPT)	1½"-3"		PG: Pressure Gauge	
63-63D	VIC: Grooved End	2"-4"		EL: Electric Control	
67	F	6"	FR	NV	PIR