

- a** 3- way selector valve
- b** Ball Valves
- c** In-line Finger Filter
- d** Plug
- e** Differential Level Control Pilot Valve

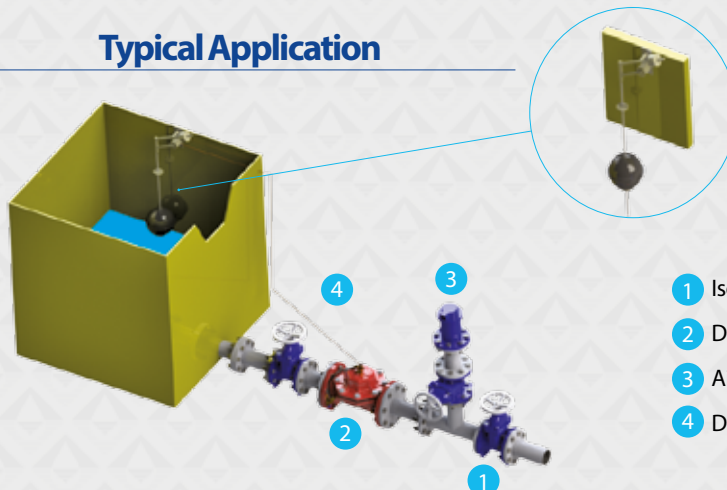
Description

Armaş "DIFL" model float control valve is the hydraulic control valve designed to control water level in reservoirs and tanks in desired ranges. Main valve is closed as wholly sealed without surge when water reach desired level thanks to 4/3 way differential control pilot. Max. and min. water level in reservoir may be adjusted to desired value in a wide range. Thanks to this feature, pump does not put into/out of service frequently during level control of reservoir fed by pump. Valve controls water level and keeps it in desired range without being affected from flow rate and pressure changes. It may be used easily in reservoirs and tanks fed from both top and bottom.

Installation

- Make sure that valve is on a level with the pipeline while mounting it.
- Mount valve in direction of arrow indicated on it.
- While connecting valve on pipeline, place gasket between valve flange and pipe flange to ensure sealing and tighten the bolts as crosswise.
- Mount valve body in reservoir upstream and float components as fixed in desired level interval.
- 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.

Typical Application



- 1** Isolation Valve (Gate, Butterfly Valve etc.)
- 2** Differential Float Level Control Valve
- 3** Air Valve
- 4** Differential Float Assemble

Adjustment

- Mount differential float pilot valve indicated with "e" as fixed according to water level in reservoir or tank.
- Mount hydraulic pressure signal pipe on 3-way selector valve as described below;

Auto → T Close → P Relief → V

- Open spherical valve indicated with "b1".

Pilot Valve Differential Level Range

Standard Pressure Range	5 - 120 cm	2" - 48"
Medium Pressure Range	5 - 180 cm	2" - 70"
High Pressure Range	10 - 240 cm	4" - 95"

Pilot Valve Pressure Range

Minimum Working Pressure	0,5 bar - 7 psi
Standard	16 bar - 230 psi
Maximum Working Pressure	25 bar - 360 psi

Troubleshooting

Failure	Causes	Correcting/Repair
Valve not opening	<ul style="list-style-type: none"> • 3-Way selector valve may be closed. • Montage of differential float pilot valve may be loose. • 3-way selector valve connection of differential pilot valve may be wrong. • Line pressure may be low. 	<ul style="list-style-type: none"> • Check 3-Way selector valve and bring it into "Auto" position. • Mount differential float pilot valve as fixed. • Check hydraulic connections and correct them. • Check valve upstream pressure and ensure necessary upstream pressure.
Valve not closing	<ul style="list-style-type: none"> • Diaphragm may be punctured. • Foreign substances may exist in diaphragm seat. • Movable parts of differential float pilot valve may be clogged due to calcification. • 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. • Replace differential float pilot valve. • Clean if it is clogged.

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 _____
 Desired level control range _____ m

Sample order form

Model	Connection	Size	Control Feature	Additional Features	Options
67-67D	F: Flanged (ISO-ANSI)	2"-16"	Differential Level 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"		PS: Pressure Sustaining EL: Electric Control	
67	F	6"	DIFL	NV	PIR