

# HYDRAULIC CONTROL VALVES

## FAF 7400 Series



### PRODUCTION STANDARTS

DN50 → DN300

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

### Features

- Due to rubber diaphragm in closed valve, it ensures positive seal.
- Provides minimum pressure loss and free flow in open valve at demanded flow amounts.
- The only moving part that regulates open/closed and modulation positions in valve is the diaphragm.
- Line pressure in valve can be controlled by exterior pressure weld equivalent to line pressure.
- 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.

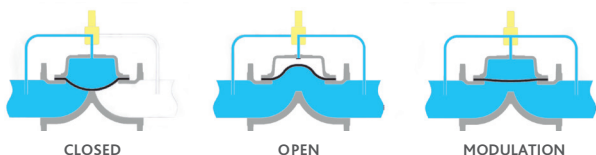
### Temperature

- -10 °C +80 °C

### Control by a pilot valve bound to the valve;

- Open Position: Trapped pressure in the actuator suppresses the pressure on the diaphragm and valve is opened when the relief port on pilot valve is completely opened.
- Modulation Position: Pilot valve ensures the diaphragm to stay in a fixed position in adjusting position by balancing the pressure and flow in and out of the actuator.

### Working Principle



### Product Description

FAF7400 Hydraulic Control Valve Series are designed to assume control for pressure, flow and water level, are automatic hydraulic control valves running by network pressure. These valves running by network pressure are used for agricultural irrigation, supply of water fire extinguishing, and various applications of industrial systems.

### Working Principle

#### Control by three-way selector valve that is bounded

- Closed Position: Flow over the actuator is provided by inlet port or an exterior pressure supplier and valve is closed by applying pressure onto the diaphragm.
- Open Position: Once the trapped pressure in valve actuator is relieved, interior line pressure moves the diaphragm upward, valve is opened and free flow is provided.
- Modulation Position: It ensures the diaphragm to stay in a fixed position by balancing the flow in and out of the actuator.

### Scope of Application

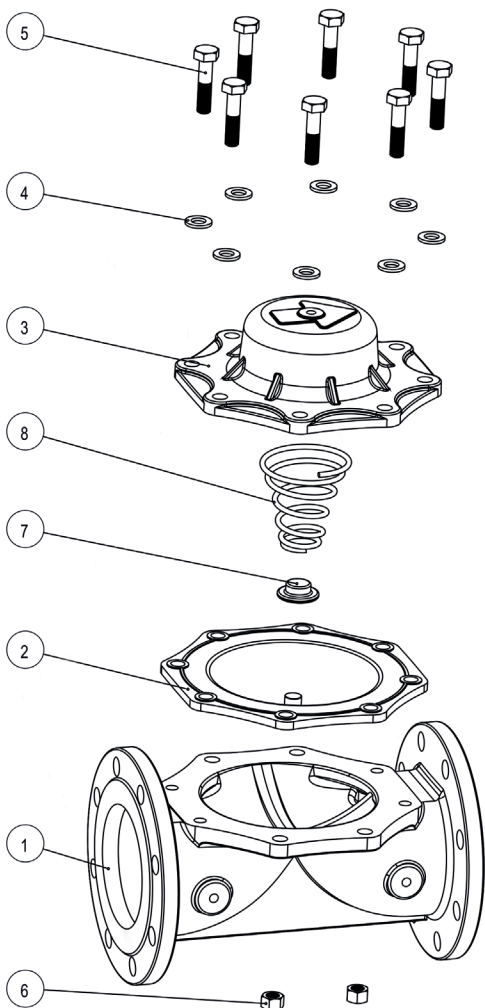
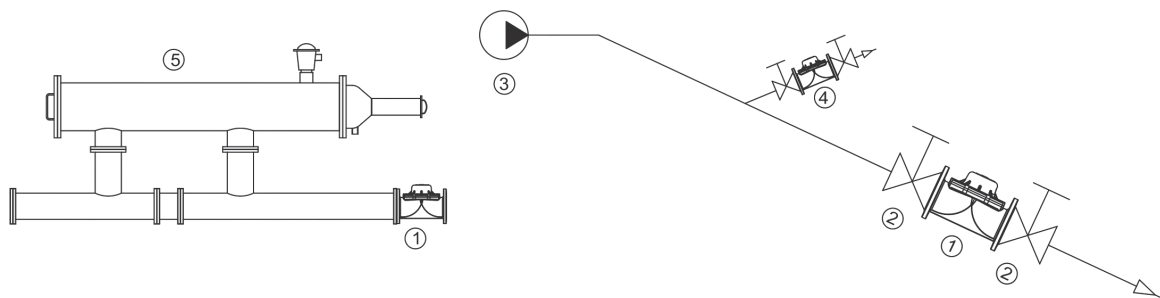
- Agricultural irrigation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Oil & gas applications
- Household implementation

# HYDRAULIC CONTROL VALVES

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### Model Application



NO	PARTS
1	Pressure Sustaining Control Valve
2	Insulating Valve
3	Pump
4	Line Valve
5	Automatic Filter

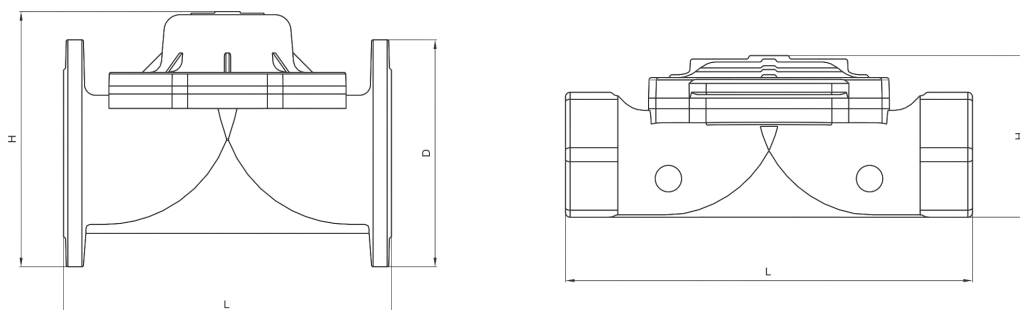
CONTROL VALVES MODEL CODES	
FAF 7410	Pressure Reducing Control Valve
FAF 7420	Solenoid Controlled Pressure Reducing Control Valve
FAF 7430	Pressure Sustaining Control Valve
FAF 7440	Pressure Sustaining - Pressure Reducing Control Valve
FAF 7450	Pressure Relief Control Valve
FAF 7460	Float Level Control 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.		



### 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 Values

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