

Figure 1730 Globe Electric Check Valve for Water with Normal and Emergency Controls

Data Sheet 1730.01

The GA Industries Electric Check Valve is used to control surges associated with the starting and stopping of water pumps. The valve is pilot-operated, self-contained, and uses line pressure for operation. A system of solenoids and needle valves control the opening and closing speed of the rugged differential piston globe or angle main valve. The pilot controls are factory piped to the main valve and are tested as an assembly.

The Figure 1730 Electric Check Valve will:

- Open slowly after the pump is up to pressure to control start-up surges
- Close slowly against the running pump to control shutdown surges
- Turn off the pump motor after the valve is closed
- Close at an independently adjustable "fast" speed upon power outage or other "emergency" situations



Product Features

- Differential Piston Main Valve (See Bulletin GA-DPCV)
- Full Port Globe or Angle Body
- Normal Solenoid with Manual Operator and Independently Adjustable Open/Close Speed Control Valves
- Emergency Solenoid with Separate, Adjustable "Fast Close" Speed Control Valve
- Limit Switch and Visual Position Indicator

Standard Materials

- Body Cast Iron, ASTM A126 Class B
- Piston and Liner No-Lead Bronze, Alloy C89833
- Internal Seals Buna-N Rubber or other suitable material
- Renewable Seat Buna-N Rubber or other suitable material

Coatings

- Internal and External NSF-61 Certified 2-Part Epoxy per AWWA C550

Options and Accessories

- Stop-Check Internal Check Feature, Closes to Prevent Reverse Flow, Independent of Controls
- Pump Director™ Model 7700 PLC Pre-wired Control Panel
- Pressure Switch Confirms Pump Pressure (Included with 7700)

Ordering Data

- Fluid
- Size
- Figure Number/Flange/Body Style:
 - 1730-D ANSI Class 125 Globe
 - 1730-U ANSI Class 250 Globe
- Minimum/Maximum Inlet Pressure
- Solenoid Voltage

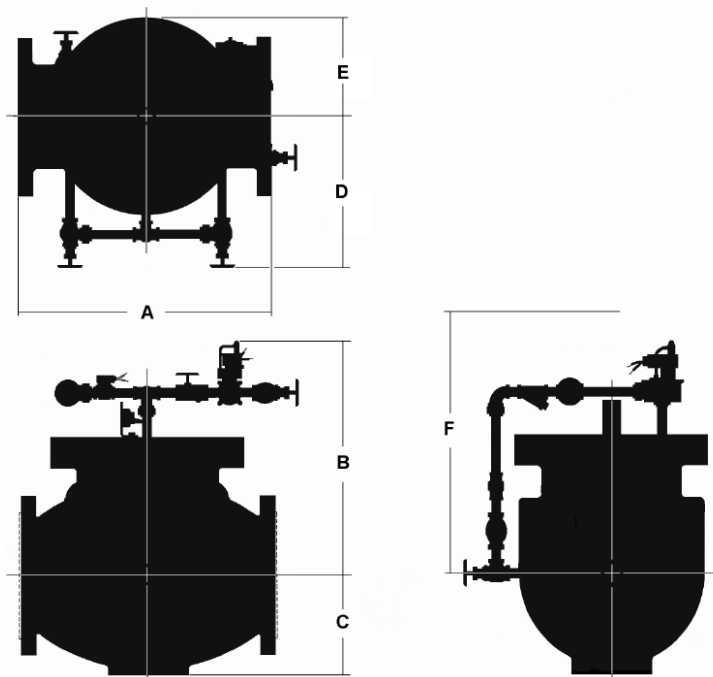
Product Application

Size Range	ANSI Flange	Std. Max. Operating Pressure	Max. Operating Temperature	Main Valve Pressure Rating	Main Valve Hydrostatic Test Pressure
2" to 12"	ANSI Class 125	150 PSI	100°F	200 PSI	300 PSI
	ANSI Class 250	250 PSI	100°F	400 PSI	600 PSI
14" to 36"	ANSI Class 125	150 PSI	100°F	150 PSI	225 PSI
	ANSI Class 250	250 PSI	100°F	300 PSI	450 PSI

Operating pressure limited by standard solenoids. Higher operating pressures available, consult factory.

Figure 1730 Globe Electric Check Valve for Water

with Normal and Emergency Controls



Dimensions (inches)

Size	A	B	C	D	E	F	Displacement per Stroke (gallons)	Approximate Weight (lbs.)
2-1/2	12	25	4	14	5	10	0.08	275
3	12	25	5	15	5	10	0.08	290
4	13	26	6	16	5	12	0.164	420
6	18	28	7	20	7	14	0.503	600
8	24 1/2	30	10	22	9	18	1.124	800
10	26	31	11	24	10	21	2.083	1,175
12	31	32	13	26	12	25	3.73	1,850
14	33	34	15	27	15	28	6.29	2,000
16	36	37	16	30	15	33	10.56	2,530
18	40	40	20	32	18	38	16.54	3,700
20	40	40	20	34	18	38	16.54	3,900
24	48	45	22	36	24	45	29.31	6,300
30	60	60	24	42	29	60	54.4	10,000
36	63	65	30	50	34	70	113.2	13,650

- Note:**
1. Dimension applicable to ANSI Class 125 and Class 250 flanged cast iron valves. Class 250 flanged valves are normally supplied flat faced, raised face height not included in the "A" dimension.
 2. Dimension F is distance required to disassemble valve.
 3. Displacement is the volume of water discharged from the pilot system every time the valve opens.
 4. Globe body can be configured for installation in a vertical pipe, specify at time of order.

Figure 1740 Angle Electric Check Valve for Water with Normal and Emergency Controls

Data Sheet 1740.01

The GA Industries Electric Check Valve is used to control surges associated with the starting and stopping of water pumps. The valve is pilot-operated, self-contained, and uses line pressure for operation. A system of solenoids and needle valves control the opening and closing speed of the rugged differential piston globe or angle main valve. The pilot controls are factory piped to the main valve and are tested as an assembly.

The Figure 1740 Electric Check Valve will:

- Open slowly after the pump is up to pressure to control start-up surges
- Close slowly against the running pump to control shutdown surges
- Turn off the pump motor after the valve is closed
- Close at an independently adjustable "fast" speed upon power outage or other "emergency" situations

Product Features

- Differential Piston Main Valve (See Bulletin GA-DPCV)
- Full Port Globe or Angle Body
- Normal Solenoid with Manual Operator and Independently Adjustable Open/Close Speed Control Valves
- Emergency Solenoid with Separate, Adjustable "Fast Close" Speed Control Valve
- Limit Switch and Visual Position Indicator

Standard Materials

- Body Cast Iron, ASTM A126 Class B
- Piston and Liner No-Lead Bronze, Alloy C89833
- Internal Seals Buna-N Rubber or other suitable material
- Renewable Seat Buna-N Rubber or other suitable material

Coatings

- Internal and External NSF-61 Certified 2-Part Epoxy per AWWA C550

Product Application

Size Range	ANSI Flange	Std. Max. Operating Pressure	Max. Operating Temperature	Main Valve Pressure Rating	Main Valve Hydrostatic Test Pressure
2" to 12"	ANSI Class 125	150 PSI	100°F	200 PSI	300 PSI
	ANSI Class 250	250 PSI	100°F	400 PSI	600 PSI
14" to 36"	ANSI Class 125	150 PSI	100°F	150 PSI	225 PSI
	ANSI Class 250	250 PSI	100°F	300 PSI	450 PSI

Operating pressure limited by standard solenoids. Higher operating pressures available, consult factory.



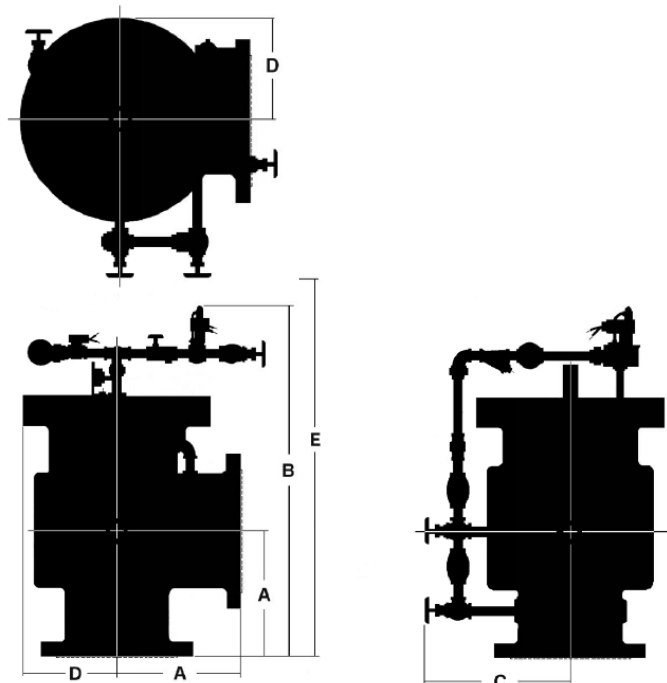
Options and Accessories

- Stop-Check Internal Check Feature, Closes to Prevent Reverse Flow, Independent of Controls
- Pump Director™ Model 7700 PLC Pre-wired Control Panel
- Pressure Switch Confirms Pump Pressure (Included with 7700)

Ordering Data

- Fluid
- Size
- Figure Number/Flange/Body Style:
 - 1740-D ANSI Class 125 Angle
 - 1740-U ANSI Class 250 Angle
- Minimum/Maximum Inlet Pressure
- Solenoid Voltage
- Installation Orientation

Figure 1740 Angle Electric Check Valves for Water with Normal and Emergency Controls



Dimensions (inches)

Size	A	B	C	D	E	Displacement per Stroke (gallons)	Approximate Weight (lbs.)
2-1/2	6	25	14	4	16	0.08	275
3	6	25	16	5	16	0.08	290
4	6 1/2	26 1/2	16	5	17 1/2	0.164	420
6	8 3/4	29 3/4	20	6	22 3/4	0.503	600
8	11 1/4	34 1/4	22	9	29 1/4	1.124	800
10	14 1/4	43 1/4	26	11	35 1/4	2.083	1,175
12	15 1/2	45 1/2	27	12	38 1/2	3.73	1,850
14	16 1/2	50 1/2	30	15	43 1/2	6.29	2,000
16	18	54	32	16	50	10.56	2,530
18	20 1/2	60 1/2	33	18	57 1/2	16.54	3,700
20	20 1/2	60 1/2	36	18	57 1/2	16.54	3,900
24	24	69	37	24	68	29.31	6,300
30	30	90	44	29	90	54.4	10,000
36	31 1/2	96 1/2	54	34	118	113.2	13,650

- Note:**
1. Dimension applicable to ANSI Class 125 and Class 250 flanged cast iron valves. Class 250 flanged valves are normally supplied flat faced, raised face height not included in the "A" dimension.
 2. Dimension E is distance required to disassemble valve.
 3. Displacement is the volume of water discharged from the pilot system every time the valve opens.
 4. Angle body can be built in five different orientations to accommodate installation. Specify at time of order.