

Figures 7100-DM, 7100-UM

Normally Open Solenoid Operated Valve

Description

GA Industries Figures 7100-D and 7100-U are self-contained, pilot-operated, differential piston actuated solenoid valves. The main valve fully opens when the solenoid pilot is de-energized and closes tight when the solenoid pilot is energized.

The rugged full port main valve provides maximum capacity and is available in either globe or angle body for piping versatility. Its unique V-port trim provides an excellent flow characteristic. Closing speed is controlled by a needle valve to minimize pressure surge and waterhammer.

Product Features

- Heavy-duty cast iron body with lead-free bronze internals for long term dependable service
- V-port trim provides excellent low flow control plus full port capacity
- Standard visual position indicator
- Pilot system standard with closing speed needle valve, wye strainer and pilot isolating valves
- 120VAC Watertight Solenoid standard (other voltages available)
- Conforms with American Water Works Association (AWWA) Standard C530
- American Iron & Steel (AIS) and Build America/Buy America (BABA) Compliant

Standard Construction

- Body Cast Iron, ASTM A126 Class B
- Cover Steel, ASTM A36
- Internal Trim Lead-free Bronze
- Renewable Seat Buna-N
- Internal Fasteners Stainless Steel
- External Fasteners Steel, A307, Zinc Plated
- Pilot System Lead Free Brass, Bronze or Copper
- Coating Internal and External NSF-61 Certified Epoxy

Options/Accessories

- Option C Stop-Check Piston – prevents return flow upon pressure reversal
- Option M Manual override on solenoid
- Option 1S Single Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 SPDT Limit Switch to indicate closed
- Option 2S Dual Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 SPDT Limit Switches to indicate closed and full open
- Option SE: 316 SS External Fasteners

Amount of Water Discharged from Pilot Each Time Valve Opens

Size	2" – 3"	4"	6"	8"	10"	12"	14"	16"	18"-20"
US Gallons	0.08	.016	.050	1.12	2.07	3.73	6.29	10.56	16.54

Data Sheet 7100.01E



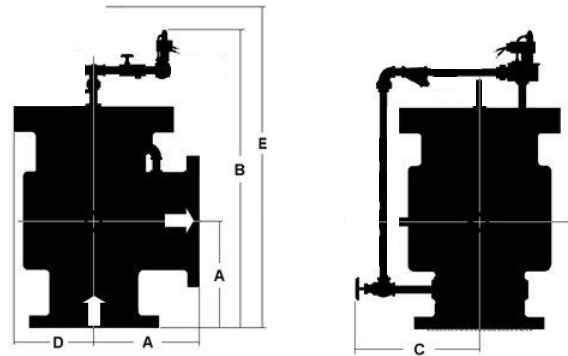
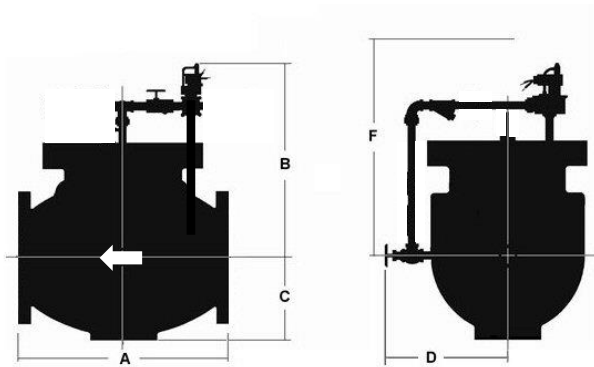
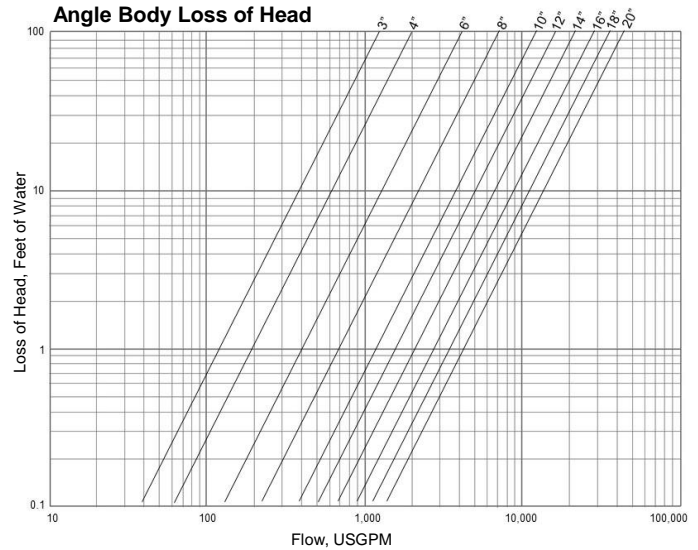
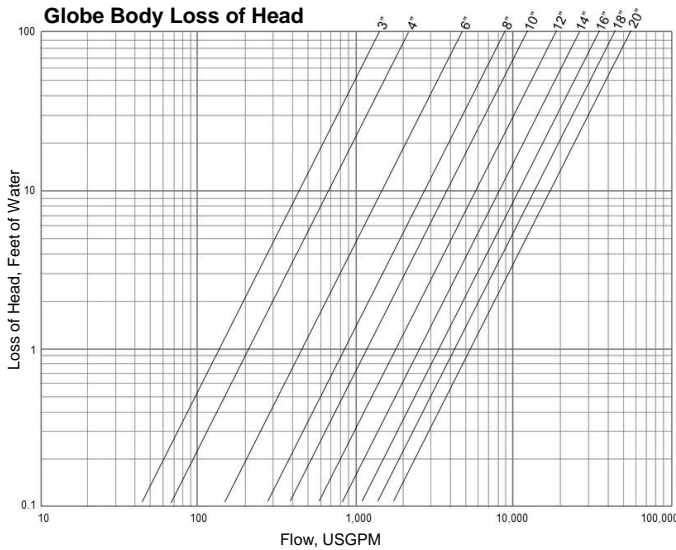
Non-Shock Working Water Pressure Up to 125F (52C)				
Figure No.	7100-DM	7100-DAM	7100-UM	7100-UAM
Body Style	Globe	Angle	Globe	Angle
Flanges	ANSI B16.1 Class 125		ANSI B16.1 Class 250	
Size	2" – 12"	14" to 20"	2" – 20"	
Max Inlet Pressure	200 PSI	150 PSI	300 PSI	
Hydro Test	300 PSI	225 PSI	450 PSI	

2" and 2½" Sizes are 3" valves with flanges drilled to the smaller sizes.
24" and larger size valves available, consult factory
Maximum working pressure may be limited by solenoid pilot

Ordering Data

- Figure Number
- Size
- Installation Orientation
- Options

Data Sheet 7100.01E



Globe Body Installation Dimensions

	A	B	C	D	F	WGT
2" to 3"	12	12	4¼	15	10	290
4"	13	13	5¼	16	12	420
6"	18	14	6½	20	14	600
8"	24½	18	8¼	22	18	800
10"	26	21	9¼	24	21	1,175
12"	31	24	13	26	25	1,850
14"	33	26	12¼	27	28	2,000
16"	36	30	13½	30	33	2,530
18"	40	33	17	32	38	3,700
20"	40	33	17	32	38	3,900

Angle Body Installation Dimensions

	A	B	C	D	E	WGT
2" to 3"	6	18	15	5	16	290
4"	6½	19½	16	5	17½	420
6"	8¾	22¾	20	6	22¾	600
8"	11¼	29¼	22	9	29¼	800
10"	14¼	25¼	24	11	35¼	1,175
12"	15½	39½	27	12	38½	1,850
14"	16½	42½	30	15	43½	2,000
16"	18	48	32	16	50	2,530
18"	20½	53½	33	18	57½	3,700
20"	20½	53½	33	18	57½	3,900

- Dimension A same for both Class 125 and Class 250 flanged valves, Class 250 supplied with flat face
- Dimensions are in inches, weight in pounds and are approximate. Consult factory if critical.
- Angle body valves can be configured for vertical or horizontal inlet, advise orientation at time of order
- Dimensions E and F are distance needed to disassemble main valve after removal of pilot piping.
- 24" and larger valves available, consult factory