

# 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)

### Standard Materials

- 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

### Corrosion Protection

- Standard: Internal and External Carboline 891 NSF-61 Certified Epoxy, min 6 mil DFT

### Options

- Option C With Integral "Stop-check" to Prevent Flow Reversal
- Option M Manual override on solenoid
- Option P2: 316 SS External Fasteners
- Option 1S With single Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 SPDT Limit Switch to indicate closed
- Option 2S With dual Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 SPDT Limit Switches to indicate closed and full open

### Ordering Data

- Figure Number
- Size
- Installation Orientation
- Options

### Data Sheet 7100.01C



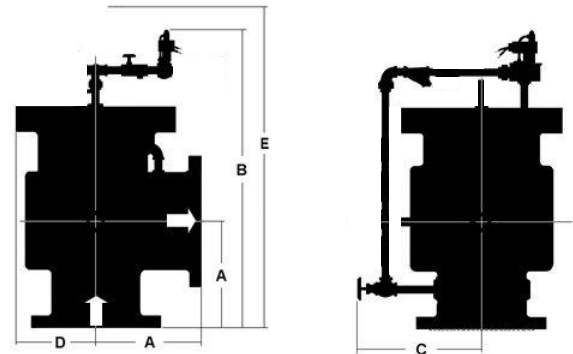
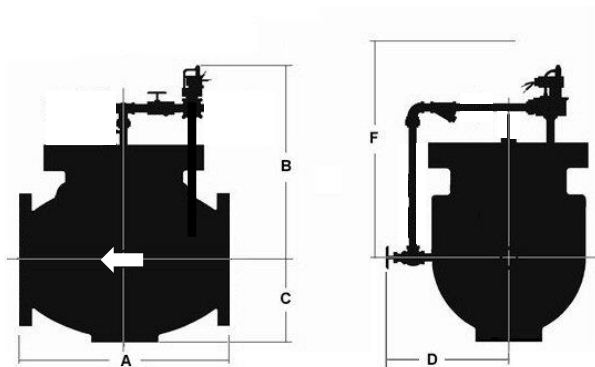
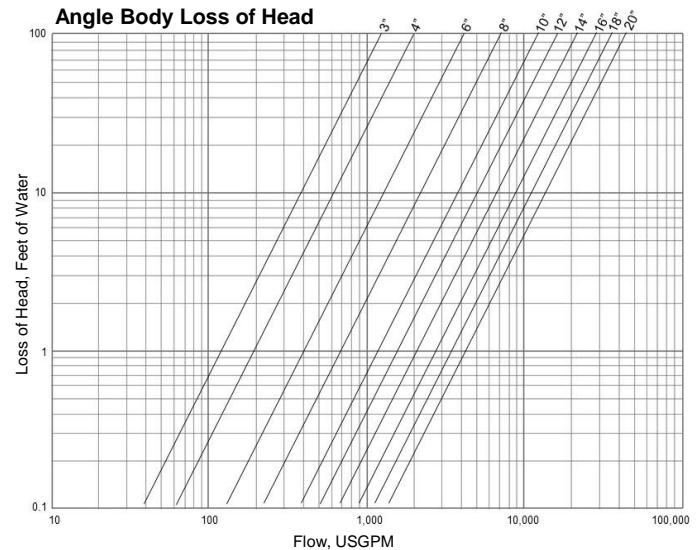
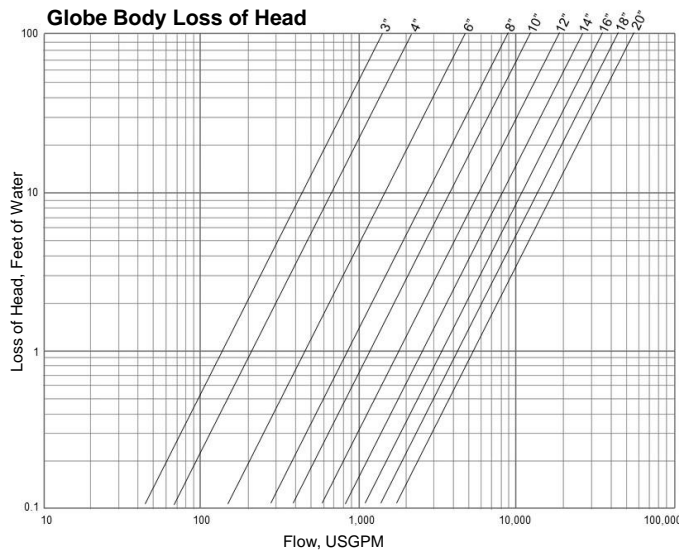
Non-Shock Working Water Pressure Up to 125F (52C)				
Figure No.	7100-DM	7100-DAM	7100-UM	7100-UAM
Body Style	Globe	Angle	Globe	Angle
Flanges	ANSI B16.1 Class 125		ANSI B16.1 Class 250	
Size	3" – 12"	14" to 20"	3" – 20"	
Max Inlet Pressure	200 PSI	150 PSI	300 PSI	
Hydro Test	300 PSI	225 PSI	450 PSI	

Note: Maximum working pressure may be limited by the solenoid pilot.

### Variations

- Normally Closed – See Data Sheet 7300.01

### Data Sheet 7100.01C



**Globe Body Installation Dimensions**

	A	B	C	D	F	WGT
3"	12	25	4¼	15	10	290
4"	13	26	5¼	16	12	420
6"	18	28	6½	20	14	600
8"	24½	30	8¼	22	18	800
10"	26	31	9¼	24	21	1,175
12"	31	32	13	26	25	1,850
14"	33	34	12¼	27	28	2,000
16"	36	37	13½	30	33	2,530
18"	40	40	17	32	38	3,700
20"	40	40	17	32	38	3,900

**Angle Body Installation Dimensions**

	A	B	C	D	E	WGT
3"	6	25	15	5	16	290
4"	6½	26½	16	5	18½	420
6"	8¾	29¾	20	6	22¾	600
8"	11¼	34¼	22	9	29¼	800
10"	14¼	43¼	24	11	35¼	1,175
12"	15½	45½	27	12	40½	1,850
14"	16½	50½	30	15	44½	2,000
16"	18	54	32	16	51	2,530
18"	20½	60½	33	18	58½	3,700
20"	20½	60½	33	18	58½	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
- 24" and larger valves available, consult factory