



Job Name:	
Job Location:	
Engineer:	
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Wholesale Dist.:	

### DESCRIPTION

The Models A127LF and A727LF Pressure Reducing Automatic Control Valve have a wide range of applications: anywhere a pressure must be reduced to a manageable level under a wide range of demand that cannot normally be provided by a single valve. The bypass regulator, typically set 5-10 psi higher than the main valve pilot, controls the pressure under low flow conditions while the main valve remains closed. When the flow capacity of the regulator is exceeded, the pressure drops to the set point of the main valve pilot, causing the main valve to open and provide the higher flow. Response of the main valve is adjusted by an opening speed control. **Proudly made in the USA.**

### FEATURES

- Ductile Iron Body & Bonnet, ASTM A536 Grade 65-45-1
- NSF Epoxy Coated
- Bronze / Stainless Steel Internals
- EPDM Elastomers 40°F - 180°F
- Lead Free Components Used Throughout
- Lead Free Wye Strainer Protects Pilot System from Debris
- Isolation Ball Valves Simplify Maintenance and Troubleshooting
- Each Valve is 100% Factory Tested and Can be Set to Your Requirements
- Wide Range of Control Pilots and Functions
- Opening Speed Control is Standard
- Automatically Reduces a Higher Upstream Pressure to a Constant Lower Downstream Pressure
- Constant Outlet Pressure Regardless of Variations in Upstream Pressure or Flow
- Pilot Operated Main Valve is Not Subject to Pressure Falloff
- Outlet Pressure is Adjustable with a Single Screw
- Low-Flow Bypass Models A127-LF or A727-LF (when wide extremes in flow demand are anticipated)

### APPROVALS

- NSF/ANSI 372 Lead Free
- NSF/ANSI 61 Water Quality: 4" - 24"

### MATERIAL OPTIONS

- Body: Ductile Iron (NSF 61 Epoxy Coated), Cast Steel, Stainless Steel, Bronze
  - Pilot/Fittings: Bronze/Brass, Stainless Steel
  - Tubing: Copper, Stainless Steel
  - Elastomers: EPDM, Buna N, Viton
- \*For use with potable water, use ductile iron (NSF 61 epoxy coated) body, lead free bronze/brass pilot and fittings, copper tubing and EPDM elastomers.**

### STANDARD MATERIALS LIST

<b>BODY/BONNET</b>	Ductile Iron (epoxy coated), Carbon Steel (epoxy coated), Stainless Steel, Bronze <i>-Others available (consult factory)</i>
<b>SEAT RING</b>	Bronze, Stainless Steel
<b>STEM</b>	Stainless Steel, Monel
<b>SPRING</b>	Stainless Steel
<b>DIAPHRAGM</b>	Nylon Reinforced Buna-N, Viton, EPDM
<b>SEAT DISC</b>	Buna-N, Viton, EPDM
<b>PILOT</b>	Stainless Steel Other pilot system components: Bronze/Brass -All Stainless Steel
<b>TUBING &amp; FITTINGS</b>	Copper/Brass, Stainless Steel

### VALVE SIZES

Globe Flanged	1-1/4" - 24"
Angle Flanged	1-1/4" - 16"
Globe / Angle Threaded	1-1/4" - 3"
Globe / Angle Grooved	1-1/2" - 6"*
<b>SERVICE RATINGS - DUCTILE IRON</b>	
150# Flanged	250 psi MAWP
300# Flanged	640 psi MAWP
Threaded	640 psi MAWP
Grooved	300 psi MAWP

\*6" grooved globe style only

### OTHER CONTROL FUNCTIONS

<b>A94</b>	Diaphragm Check Valve
<b>A108-2</b>	Pressure Relief/Pressure Sustaining
<b>A110</b>	Differential Control
<b>A115-2</b>	Solenoid Control
<b>A115-4</b>	Solenoid Control/High Capacity Pilot
<b>A120</b>	Rate of Flow Control
<b>A127LF</b>	Pressure Reducing with Low Flow Bypass
<b>A727</b>	Pressure Reducing with Reduced Port
<b>A727LF</b>	Pressure Reducing with Reduced Port and Low Flow Bypass
<b>A800</b>	Float Controlled On/Off Service
<b>A810</b>	Float Controlled, Modulating
<b>A22 / A88</b>	Digital Electronic Control, Regulates Pressure, Flow or Level

\*Contact customer service for assistance with sizing, selection and model numbers

\*LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

### DIMENSIONS

SIZE (IN.)	END CONNECTIONS A				END CONNECTIONS C				END CONNECTIONS D				E	H
	SCREWED	GROOVED	150# FLANGED	300# FLANGED	SCREWED	GROOVED	150# FLANGED	300# FLANGED	SCREWED	GROOVED	150# FLANGED	300# FLANGED	ALL	ALL
1-1/4 - 1-1/2	8-3/4	8-3/4	8-1/2	8-3/4	4-3/8	4-3/8*	4-1/4	4-3/8	3-1/8	3-1/8*	3	3-1/8	6	10
2	9-7/8	9-7/8	9-3/8	9-7/8	4-3/4	4-3/4	4-3/4	5	3-7/8	3-7/8	3-7/8	4-1/8	6	11
2-1/2	10-1/2	10-1/2	10-1/2	11-1/8	6	6	6	6-3/8	4	4	4	4-3/8	7	11
3	13	13	12	12-3/4	6-1/2	6-1/2	6	6-3/8	4-1/2	4-1/2	4	4-3/8	6-1/2	11
4	—	15-1/4	15	15-5/8	—	7-5/8	7-1/2	7-13/16	—	5-5/8	5-1/2	5-13/16	8	12
6	—	20	17-3/4	18-5/8	—	—	10	10-1/2	—	—	6	6-1/2	10	13
8	—	—	25-3/8	26-3/8	—	—	12-11/16	13-3/16	—	—	8	8-1/2	11-7/8	14
10	—	—	29-3/4	31-1/8	—	—	14-7/8	15-9/16	—	—	11-3/8	12-1/16	15-3/8	17
12	—	—	34	35-1/2	—	—	17	17-3/4	—	—	11	11-3/4	17	18
14	—	—	39	40-1/2	—	—	—	—	—	—	—	—	18	20
16	—	—	40-3/8	42	—	—	20-13/16	21-5/8	—	—	15-11/16	16-1/2	19	20
24	—	—	62	63-3/4	—	—	—	—	—	—	—	—	27	28-1/2

\*Grooved End Not Available in 1-1/4"

