

## A127 Series

Pressure Reducing Automatic Control Valve

### LEAD FREE



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

### DESCRIPTION

The A127 reduces a higher upstream pressure to a constant, lower downstream pressure regardless of fluctuations in supply or demand.

The normally open, spring loaded pilot, sensing downstream pressure, responds to changes in pressure and causes the main valve to do the same. The net result is a constant modulating action of the pilot and main valve to hold the downstream pressure constant. The pilot system is equipped with an opening speed control that fine tunes the valve response to the system variables. **Proudly made in the USA.**

### FEATURES

- Reduces a Higher Inlet Pressure to a Lower Outlet Pressure
- Constant Outlet Pressure Over Wide Flow Range
- Pilot-Operated Main Valve Not Subject to Pressure Fall Off
- Outlet Pressure is Adjustable with Single Screw
- Can be Maintained without Removal from the Line
- Adjustable Opening/Response Speed
- Factory Tested and Can be Preset to Your Requirements

### APPROVALS

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

### SIZES

#### GLOBE/ANGLE

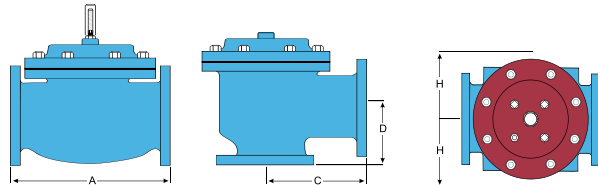
- Screwed Ends: 1-1/4" - 3"
- Grooved Ends: 1-1/2" - 6"
- Flanged Ends: 1-1/4" - 24" (globe)  
1-1/4" - 16" (angle)

### 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>	Bronze, Stainless Steel Other pilot system components: Bronze/Brass -All Stainless Steel
<b>TUBING &amp; FITTINGS</b>	Copper/Brass, Stainless Steel

### MAXIMUM PRESSURE

END CONNECTIONS	DUCTILE IRON	STEEL/SS	BRONZE
Threaded	640 psi	640 psi	500 psi
Grooved	300 psi	300 psi	300 psi
150# Flanged	250 psi	285 psi	225 psi
300# Flanged	640 psi	740 psi	500 psi



### DIMENSIONS (IN.)

DIM	END CONN.	1-1/4 - 1-1/2	2	2-1/2	3	4	6	8	10	12	14	16	24
A	Screwed	8-3/4	9-7/8	10-1/2	13	--	--	--	--	--	--	--	--
	Grooved	8-3/4	9-7/8	10-1/2	13	15-1/4	20	--	--	--	--	--	--
	150# Flanged	8-1/2	9-3/8	10-1/2	12	15	17-3/4	25-3/8	29-3/4	34	39	40-3/8	62
	300# Flanged	8-3/4	9-7/8	11-1/8	12-3/4	15-5/8	18-5/8	26-3/8	31-1/8	35-1/2	40-1/2	42	63-3/4
B	Screwed	1-7/16	1-11/16	1-7/8	2-1/4	--	--	--	--	--	--	--	--
	Grooved	1*	1-3/16	1-7/16	1-3/4	2-1/4	3-5/16	--	--	--	--	--	--
	150# Flanged	2-5/16 - 2-1/2	3	3-1/2	3-3/4	4-1/2	5-1/2	6-3/4	8	9-1/2	10-5/8	11-3/4	16
	300# Flanged	2-5/8 - 3-1/16	3-1/4	3-3/4	4-1/8	5	6-1/4	7-1/2	8-3/4	10-1/4	11-1/2	12-3/4	18
C	Screwed	4-3/8	4-3/4	6	6-1/2	--	--	--	--	--	--	--	--
	Grooved	4-3/8*	4-3/4	6	6-1/2	7-5/8	--	--	--	--	--	--	--
	150# Flanged	4-1/4	4-3/4	6	6	7-1/2	10	12-11/16	14-7/8	17	--	20-13/16	--
	300# Flanged	4-3/8	5	6-3/8	6-3/8	7-13/16	10-1/2	13-3/16	15-9/16	17-3/4	--	21-5/8	--
D	Screwed	3-1/8	3-7/8	4	4-1/2	--	--	--	--	--	--	--	--
	Grooved	3-1/8*	3-7/8	4	4-1/2	5-5/8	--	--	--	--	--	--	--
	150# Flanged	3	3-7/8	4	4	5-1/2	6	8	11-3/8	11	--	15-11/16	--
	300# Flanged	3-1/8	4-1/8	4-3/8	4-3/8	5-13/16	6-1/2	8-1/2	12-1/16	11-3/4	--	16-1/2	--
E	ALL	6	6	7	6-1/2	8	10	11-7/8	15-3/8	17	18	19	27
F	ALL	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	6-3/8	6-3/8	6-3/8	6-3/8	6-3/8	8
G	ALL	6	6-3/4	7-11/16	8-3/4	11-3/4	14	21	24-1/2	28	31-1/4	34-1/2	52
H	ALL	10	11	11	11	12	13	14	17	18	20	20	28-1/2

\* Grooved end not available in 1-1/4".

\*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.

#### PART NUMBER MATRIX

A127	G	003	020	1	1	1	3
MODEL NUMBER	VALVE TYPE/ CONNECTION FULL PORT	SERIES EXTENSION	VALVE SIZE FULL PORT	BODY & BONNET MATERIAL	SEAT RING MATERIAL	PILOT, FITTINGS, TUBE	ELASTOMERS
A127 - STANDARD	A - ANGLE/FLANGED ANSI CLS 150	002 - PRESSURE REDUCING/ PRESSURE SUSTAINING	012 - 1-1/4" 015 - 1-1/2"	1 - DUCTILE IRON NSF 61-EPOXY COATED	1 - BRONZE B61 2 - STAINLESS STEEL	1 - PILOT: SS FITTINGS: BRASS TUBE: CU	3 - EPDM (STANDARD NSF-61)
	B - ANGLE/FLANGED ANSI CLS 300	003 - PRESSURE REDUCING VALVE	020 - 2"	2 - CAST STEEL		8 - PILOT: SS FITTINGS: SS TUBE: SS	
	C - ANGLE/THREADED (1-1/4" - 3")	3LF - PRESSURE REDUCING WITH LOW FLOW BYPASS	025 - 2-1/2" 030 - 3"	5 - B61 BRONZE 7 - STAINLESS STEEL		9 - PILOT: BRONZE FITTINGS: SS TUBE: SS	
	E - ANGLE/GROOVED ENDS (1-1/2" - 4")	004 - PRESSURE REDUCING AND CHECK VALVE	040 - 4" 060 - 6"				
	F - ANGLE/FLANGED CLS 300 X CLS 150	005 - PRESSURE REDUCING AND SURGE CONTROL	080 - 8" 010 - 10"				
	G - GLOBE/FLANGED ANSI CLS 150 (FULL & REDUCED PORT)	080 =PRESSURE REDUCING AND SOLENOID SHUT-OFF	120 - 12" 140 - 14" 160 - 16" 240 - 24"				
	H - GLOBE/FLANGED ANSI CLS 300 (FULL & REDUCED PORT)						
	J - GLOBE/THREADED ENDS (1-1/4" - 3")						
	V - GLOBE/GROOVED ENDS (1-1/2" - 6")						

#### HOW TO ORDER YOUR A108 VALVE

When Ordering Please Provide:

- Fluid to be Controlled
- Model Number
- Size
- Trim Material
- Pressure Setting or Spring Range
- Special Requirements / Installation Requirements

For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician.