

## 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

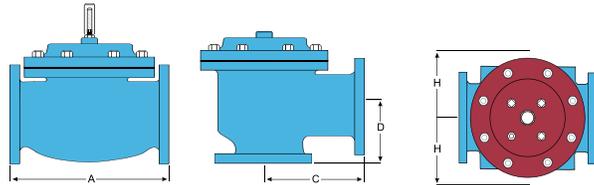
- Screwed Ends: 1-1/4" - 3"
- Grooved Ends: 1-1/2" - 6"
- Flanged Ends: 1-1/4" - 24" (globe)  
1-1/4" - 16" (angle)

### STANDARD MATERIALS LIST

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