"Apollo"® Valves
SUBMITTAL SHEET

A108 Series

Pressure Relief/Pressure Sustaining Automatic Control Valve

LEAD FREE

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

DESCRIPTION

The **A108 Series Pressure Relief/Pressure Sustaining Automatic Control Valve** has a wide range of applications: anywhere a system must be protected from pressures that are too high (relief) or too low (sustaining).

The normally closed, spring-loaded pilot, sensing upstream 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 upstream pressure constant. The pilot system is equipped with a closing speed control that fine tunes the valve response to the system variables. Proudly made in the USA.

FEATURES

- Relief Valve: Limits Inlet Pressure by Relieving Excess Pressure
- Pressure Sustaining: Prevents Inlet Pressure from Dropping Below a Predetermined Minimum
- Operates Over a Wide Flow Range
- Inlet Pressure is Adjustable with Single Screw
- Quick Opening and Adjustable Closing Speed
- Can be Maintained without Removal From the Line
- Factory Tested and can be Preset to Your Requirements

APPROVALS

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

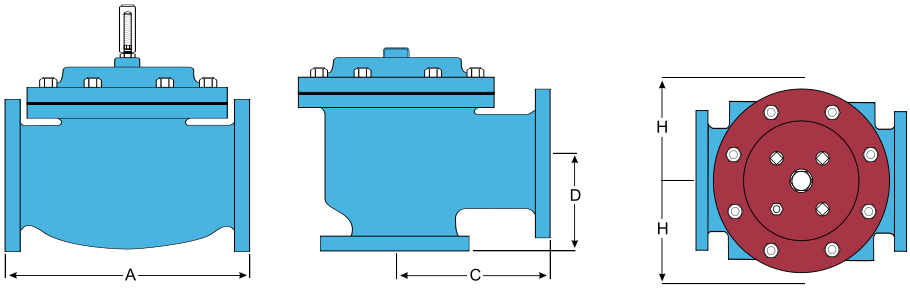
SIZES

GLOBE/ANGLE

- Screwed Ends: 1-1/4" - 3"
- Grooved Ends: 1-1/2" - 4"
- Flanged Ends: 1-1/4" - 24" (Globe)
  1-1/4" - 16" (Angle)

STANDARD MATERIALS LIST

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



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
C Angle	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 Angle	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	-
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.*

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PART NUMBER MATRIX

A108	G	002	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
A108 - STANDARD	A - ANGLE/FLANGED ANSI CLASS 150	002 - PRESSURE RELIEF/ PRESSURE SUSTAINING	012 - 1-1/4"	1 - DUCTILE IRON NSF 61-EPOXY COATED	1 - BRONZE B61	1 - PILOT: SS FITTINGS: BRASS TUBE: CU	3 - EPDM (STANDARD NSF-61)
			015 - 1-1/2"		2 - STAINLESS STEEL		
	B - ANGLE/FLANGED ANSI CLASS 300	003 - PRESSURE RELIEF/ PRESSURE SUSTAINING AND CHECK VALVE	020 - 2"	2 - CAST STEEL		8 - PILOT: SS FITTINGS: SS TUBE: SS	
			025 - 2-1/2"	5 - B61 BRONZE			
	C - ANGLE/THREADED (1-1/4" – 3")		030 - 3"	7 - STAINLESS STEEL		9 - PILOT: BRONZE FITTINGS: SS TUBE: SS	
		004 - PRESSURE RELIEF/ PRESSURE SUSTAINING AND SOLENOID SHUTOFF VALVE	040 - 4"				
	E - ANGLE/GROOVED ENDS (1-1/2" – 4")		060 - 6"				
			080 - 8"				
	F - ANGLE/FLANGED CLASS 300 X CLASS 150		010 - 10"				
			120 - 12"				
	G - GLOBE/FLANGED ANSI CLASS 150 (FULL & REDUCED PORT)		140 - 14"				
			160 - 16"				
			240 - 24"				
	H - GLOBE/FLANGED ANSI CLASS 300 (FULL & REDUCED PORT)						
	J - GLOBE/THREADED ENDS (1-1/4" – 3")						
	V - GLOBE/GROOVED ENDS (1-1/2" – 4")						

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.