

A110 Series

Differential Pressure Control Automatic Control Valve

LEAD FREE



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

DESCRIPTION

The A110 Differential Pressure Control Automatic Control Valve controls the pressure difference between two points in a system. It has a wide range of applications: anywhere an increase in the sensed pressure differential causes the valve to open.

The normally closed, spring-loaded pilot, sensing two pressure points, responds to changes in the pressure difference and causes the main valve to do the same. The valve opens on increased differential. The net result is a constant modulating action of the pilot and main valve to hold the pressure differential constant. The pilot system is equipped with a needle valve response speed control that fine tunes the valve response to the system variables. The high pressure sensing point is typically at the valve inlet, while the low pressure sensing point can be valve outlet or remotely connected, e.g., pump suction. **Proudly made in the USA.**

FEATURES

- Valve Opens on Increased Pressure Differential
- Operates Over a Wide Flow Range
- Pressure Differential is Adjustable with Single Screw
- Adjustable Response 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

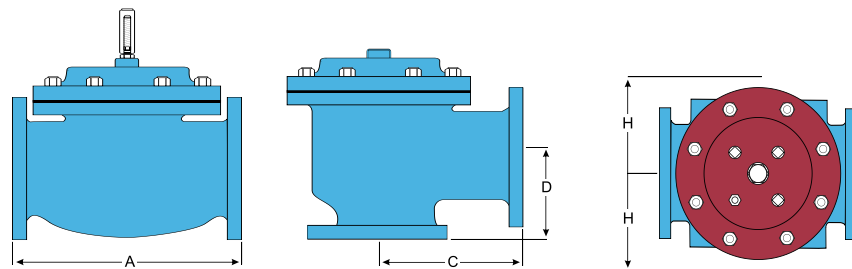
- Screwed Ends: 1-1/4" - 3"
- Grooved Ends: 1-1/2" - 4"
- Flanged Ends: 1-1/4" - 24" (globe)
1-1/4" - 16" (angle)

STANDARD MATERIALS LIST

BODY/BONNET	Ductile Iron (epoxy coated), Carbon Steel (epoxy coated), Stainless Steel, Bronze <i>-Others available (consult factory)</i>
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

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
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	--
E	ALL	6	6	7	6-1/2	8	10	11-7/8	15-3/8	17	18	19	27
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

A110	G	000	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
A110 - STANDARD	A - ANGLE/FLANGED ANSI CLASS 150	000 - DIFFERENTIAL PRESSURE CONTROL	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 CLASS 300		020 - 2" 025 - 2-1/2"	2 - CAST STEEL 5 - B61 BRONZE		8 - PILOT: SS FITTINGS: SS TUBE: SS	
	C - ANGLE/THREADED (1-1/4" - 3")		030 - 3" 040 - 4"	7 - STAINLESS STEEL		9 - PILOT: BRONZE FITTINGS: SS TUBE: SS	
	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.