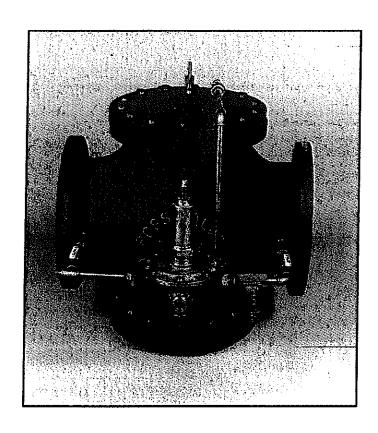
SINGLE ACTING ALTITUDE VALVE

INSTRUCTIONS

Installation - Operation - Inspection - Maintenance



4" - 16" ROSS MODEL - 30AWR FIGURE 29 SINGLE ACTING ALTITUDE VALVE

GLOBE FLAT SEAT STYLE

Serial # L09437

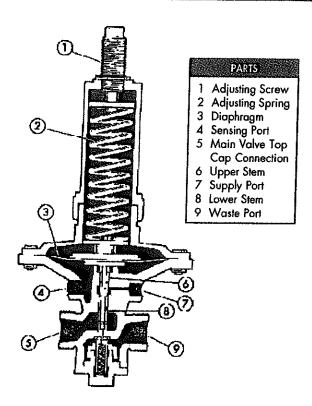
ROSS VALVE Mfg. Co., Inc.

PO BOX 595, TROY, NY 12181 - PHONE 518/274-0961 - FAX 518/274-0210

SINGLE ACTING ALTITUDE VALVE

Pilot Valves

Model Number: 30AWR



Pilot: External Sensing Port

Primarily Controlled By: Hydraulic pressure
Located: On external piping which is connected to the
inlet side, the outlet side and the operating chamber
Purpose: To prevent high storage from exceeding a preset
maximum level

Operation

- 1. When the pressure in storage reaches its high water level, the
 - a. Storage pressure backs up into the pilot valve, pushing the diaphragm up.
 - b. Pilot seat between upper and lower stems opens letting water flow from the supply side into the operating chamber.
 - c. Main valve closes.
- When the pressure in storage reaches its low water level, the
 - Top spring loading pushes the pilot diaphragm down.
 - b. Seat that controls the supply flow closes.
 - Another seat that leads to waste opens and water flows out of the operating chamber.
 - d. Main valve opens.

STRAINERS

Purpose: Protect external piping and control devices

Model Number: 5F-2

Sizes: 1/2" - 1"

Located: On any external piping

Purpose: To protect external piping and control devices from fouling or damage

from foreign particles

Screen: Cylindrical Dutch weave stainless

steel wire mesh

Piping Connection: Standard pipe thread

Option

Installed in parallel with the appropriate isolation valves to permit uninterrupted service while cleaning debris

Caution

- 1. Strainer should be "blown down" frequently to remove collected foreign material from the sediment chamber.
- 2. Strainer screens should be removed occasionally for inspection and thorough cleaning.

Note

- To clean without shutting down the line, open the flush cock in the bottom cap for several seconds.
- 2. To remove the screen, which requires shutting down the line, unscrew the bottom cap assembly.

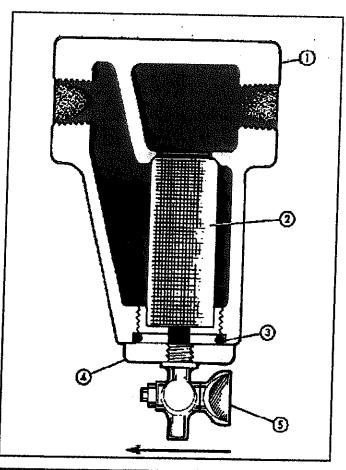
ROSS ADVANTAGE

Based on the configuration of the wire mesh screens, these strainers filter out particularly fine specks of debris.

Basic Application

Protect external piping and control devices, or any related size devices, from unwanted particles and debris.

Factory: Telephone (518) 274-0961 Fax (518) 274-0210



PARTS

- 1. Body Bronze
- 4. Cap Brass
- 2. Screen Stainless Steel
- 5. Flushing Cock Brass
- 3. Cap Gasket Rubber

Operation

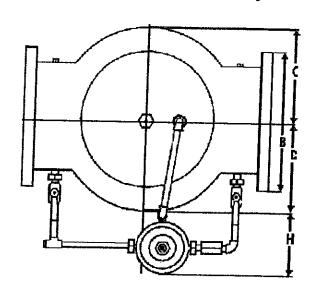
- 1. Water enters the cylindrical screen from the top and passes out through the sides of the cylinder.
- 2. Any particle too large to pass through .012 inch openings gets trapped in the cylinder, where, unless there is unusual turbulence, they settle at the bottom.

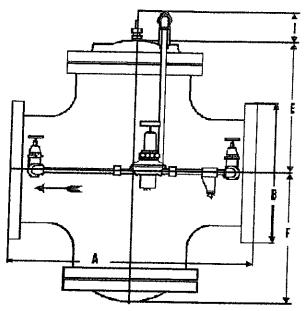
Approximate Shipping Weights (lbs.)

Size	1/2"	3/4"	1"
	3	3	4

For Model Numbers

30AWR - Single Acting Altitude - Nonthrottling **40DAWR** - Double Acting Altitude - Nonthrottling





Size (Inches)	4"	6"	8″	10"	12"	14"	16"	18"	20"	24"	30"	36"
125 AUSI	1, 123 is 4 is 14										1 30 1 3 4 4	1 30
Α	14	173/4		247/8	30	34 1/4	37 7/8	417/8	Section Edward Control	47	63 3/4	65
В	9	11	13 1/2	16	19	21	23 1/2	25	27 1/2	32	383/4	46
C&D	43/4	6 ⁵ /8	83/4	10	12	14	15	18	18	24	26 1/4	261/4
E&F	7	9	12 1/2	14 1/4	15 1/2	18	211/2	24	24	25	34	34
Н	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16
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A	145/8	173/4	24 13/16	261/4	311/2	35 ³ / ₄	39 1/4	417/8	42 3/8	47	65 1/16	65
В	10	12 1/2	15	17 1/2	20 1/2	23	25 1/2	28	30 1/2	36	43	50
C&D	43/4	65/8	83/4	10	12	14	15	18	18	24	26 1/4	26 1/4
E&F	7	9	12 1/2	14 1/4	15 1/2	18	211/2	24	24	25	34	34
Н	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16	11-16
1	12	12	12	12	12	12	12	12	12	12	12	12

Note

- Dimension "!" includes maximum stem travel.
 Dimensions "A" "F" are on page EN-8.