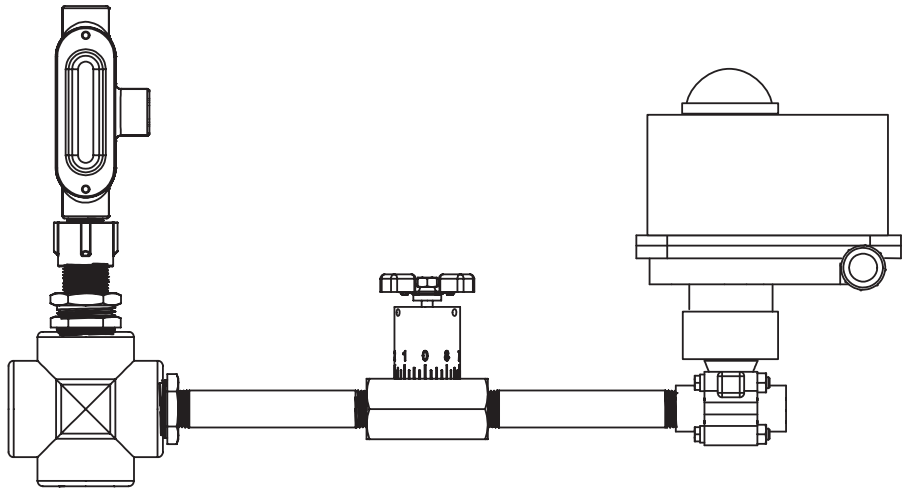


AVP

Boiler Blowdown Valve Packages



AVP valve packages take the guess work out of blowdown plumbing configurations. AVP's are factory pre-assembled to meet your boiler application pressure requirements complete with the probe cross (probe not included) and correct pipe lengths between components. Make installations even easier using prefabricated option P and we will pre-wire and mount your controller.

Model Number

AVP- _____ - _____

Electric Blowdown Valve

- 20** = SVB-050 ½" brass solenoid valve, 0-140 psi max
- 50** = MBV-050 motorized ball valve SS, 325 psi max
- 60** = SOB-½ brass solenoid valve, 0-140 psi max

Flow Restricting Device

- 00** = AOU-1 orifice union with 4 plates, 1000 psi
- 30** = NFC-½ needle flow control valve, 5000 psi max

Optional Features

- A** = Adds second flow restricting device for continuous sampling
- C** = ¾" probe tee instead of 1"
- F** = Add a ¾" flush ball valve on bottom of probe cross
- Y1** = Add Y-strainer with flush valve before blowdown valve
- P** = Mount AVP and separately ordered controller onto poly board and pre-wire
- P1** = Mount AVP and separately ordered controller & sample cooler onto poly board & pre-wire

Note: Change 2nd digit of code to 1 for ¾" connection, if available add individual valve price difference: AVP-61-11

Specifications

The specifications of your AVP will depend on the individual items selected. The total shipping weight will be the total of the two valves selected plus approximately 9 pounds (Option P will be more).

MBV

Max Fluid Temp. 459°F
Max Boiler Pressure 325 PSIG
Valve Body..... Carbon Steel
Ball & Stem..... 316 SS
Seals..... Teflon
Shipping Weight 9 lbs.
Actuator Ambient Max. 150°F
Standard Electrical .. 120 VAC 2.3 Amp
Sizes Available ½", ¾" & 1"



SOB

Max Fluid Temp. 356°F
Max Boiler Pressure 0-140 PSIG
Valve Body..... Brass
Seals..... Teflon
Shipping Weight 3 lbs.
Standard Electrical 120 VAC
Sizes Available ½" & ¾"



SVB-050

Max Fluid Temp. 366°F
Max Boiler Pressure 0-140 PSIG
Valve Body..... Brass
Seals..... Teflon
Shipping Weight 3 lbs.
Standard Electrical 120 VAC
Size Available ½"



NFC

Max Fluid Temp 600°F
Max Boiler Pressure 5,000 PSIG
Body Carbon Steel
Stem 304 Stainless Steel
Shipping Weight 4 lbs.
Sizes Available ½" & ¾"



AOU-1

Max Fluid Temp. 500°F
Max Boiler Pressure 1000 PSIG
Body Carbon Steel
Plates..... 316 Stainless Steel
Orifice Sizes ⅛", ⅜", ¼", ⅝"
Shipping Weight 3 lbs.
Sizes Available ¾" & 1"



Boiler Blowdown Requirement Calculation

A boiler's blowdown configuration (timed or continuous) is determined by the blowdown requirement in pounds of steam per hour. Using the following information:

1. Boiler steam output H.P. x 34.5 = steam output/hour
2. Make-up of water in pounds/hour based on percentage of return condensate
3. Cycles of conductivity concentration

$$\text{Steam output/hr} \times \left(1 - \frac{\% \text{ Condensate}}{100\%} \right) = \text{Make-up water (lbs/hr)}.$$

$$\text{Make-up} \times \left(\frac{1}{\text{Cycles} - 1} \right) = \text{Blowdown required (lbs/hr)}.$$

Boilers under 5,000 lbs/hr blowdown use timed sampling. If over 5,000 lbs/hr, continuous sampling is recommended.

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