

S.A. Armstrong Limited
 23 Bertrand Avenue
 Toronto, Ontario
 Canada, M1L 2P3
 Tel: (416) 755-2291
 Fax: (416) 759-9101

Armstrong Pumps Limited
 Peartree Road, Stanway
 Colchester, Essex
 United Kingdom, C03 5JX
 Tel: 01206-579491
 Fax: 01206-760532

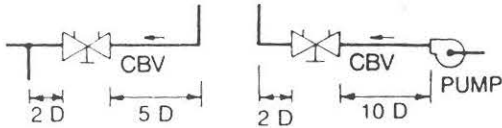


Armstrong Pumps Inc.
 93 East Avenue
 Buffalo, New York
 U.S.A. 14120-6594
 Tel: (716) 693-8813
 Fax: (716) 693-8970
 1-800-FLOW-845

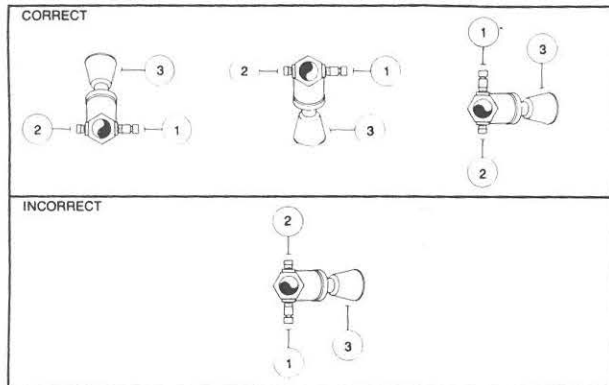
Armstrong Darling Inc.
 2200 Place Transcanadienne
 Montreal, Quebec
 Canada, H9P 2X5
 Tel: (514) 421-2424
 Fax: (514) 421-2436

INSTALLATION

- To ensure accuracy of measurement, this CBV should be located at least five pipe diameters downstream from any fitting and at least ten pipe diameters downstream from a pump. Two pipe diameters downstream from the CBV should be free of any fittings (as illustrated).



- CBV valves must be installed with flow in the direction of the arrow on the valve body. Easy access to the probe metering ports (P.M.P's), drain ports and handwheel must be provided.
- CBV valves can be installed in horizontal or vertical piping. The metering ports should never be installed below the pipe (pointing down), as this will allow system sediment to accumulate in the ports. (Illustrated below for horizontal and vertical piping).



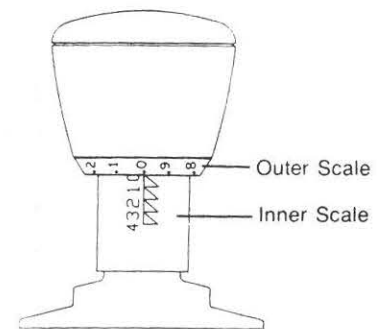
(1) Metering Port (2) Body Plug & Drain (3) Handwheel

- Metering ports and body/drain plugs may be interchanged for improved accessibility.
- Drain valves are available as an accessory. When required, two 1/4" NPT connections, with plugs, are provided for drain valve installation.
- The valve operates from closed to fully open by a counterclockwise rotation of the red handwheel using four 360-degree turns.

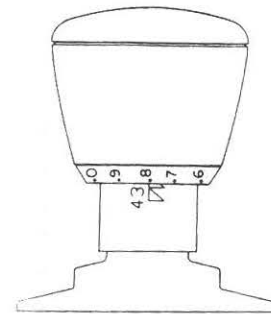
The position of the valve is indicated by two scales.

Inner Scale — This scale is printed on a black sleeve which moves linearly within the red handwheel. This sleeve has an arrowed scale marked 0 - 4, (0) denoting closed and (4) being fully opened.

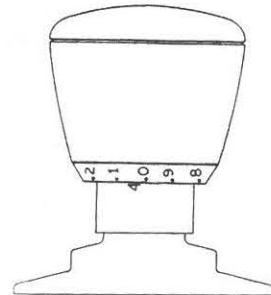
Outer Scale — This scale is a micrometer type scale 0 - 9 marked at the tapered base of the red handwheel. Each gives 1/10th indications for each 360-degree turn of opening against the indicator line of the Inner Scale.



(FIG. 1) With all arrows visible, the Inner Scale set at 0 on the indicator line aligned with the 0 on the Outer scale; the valve is closed.



(FIG. 2) Shows a valve setting of 2.8 indicating that the valve is partially open.



(FIG. 3) With no arrows visible, the Inner Scale set at 4 and the indicator line aligned with Outer Scale 0; the valve setting is 4.0 and the valve is fully open.