
Aurora®

CBV-NPT5 models are tapped with NPT threaded connections. All threaded connections should be sealed using an approved pipe sealant per industry standards. Once the CBV installation has been completed and the system has been filled and purged,

Connect pressure measuring device to the CBV metering ports as follows:

- Remove protective cap from metering ports (1/4" NPT connection).
- Insert the meter probe into the metering ports. The hose with red fitting, up stream; the hose with blue fitting downstream. Refer to Fig. 6.



When inserting probe, do not bend, as this will cause permanent damage to the probe, adversely affecting the pressure measurement. Do not use any lubrication on the probes when inserting them. If necessary, simply wet the probes with clean water.

The probe should not be left inserted into the fitting for prolonged periods of time, overnight, etc., as leakage of the P.M.P. may occur when the probe is removed.

The locking nut on the probe is designed to hold it in the P.M.P. when taking readings. As sealing is accomplished internally on the probe stem, it is only necessary to tighten the locking nut FINGER-TIGHT. Overtightening may cause damage to the P.M.P. or locking nut threads.

Before taking a measurement reading, set the valve to its fully open position (5.0) or at a preset position. Read the pressure drop across the venturi with a digital meter. Determine flow rate by use of Venturi C_v Performance Curves (Fig. 8).

The handle of the CBV is not designed to be removable. Do not try to take it off the valve, or it may become damaged. If for any reason the handle is damaged, replace the entire handle/stem assembly with the appropriate replacement part indicated below.

- 571155-225 for size 1/2"-2"
- 570155-105 for size 2-1/2"-6"
- 570155-015 for size 8"-12"

After valve has been properly adjusted and without moving the handwheel, the locking memory stop should be set. The memory stop will allow the valve to be fully closed for isolation and then reopened to the preset flow position.

Insert a 2.5 mm (or 3/32") Allen key through the hole provided in the valve's handle cap. (Fig. 7)

Turn the setscrew in a clockwise direction until it stops. It is not necessary to tighten. The memory has now been set. This establishes the maximum opening position for this particular valve.

The valve may now be closed tightly, as needed, for isolating the piping during system maintenance.

To return the valve to its preset "balanced" position, simply open the valve by turning the handwheel counterclockwise until the handle stops turning (the valve stem inside the handle has hit the memory set screw).

Valve is leaking: <ul style="list-style-type: none"> • At the bonnet / body joint. • At the pipe connection. 	Bonnet O-ring has been damaged.	Remove the handle/stem assembly and replace with the appropriate replacement and hydrotest (refer to PHDC Graphic 11)0 fracture plate
	If solder joint – the joint has failed, or was not soldered properly.	Resolder the connection and recheck for leakage.
	If threaded – the connection is not sufficiently tight, or	Tighten and recheck for leakage.
	the valve was overtightened during installation and the valve body has cracked (fractured).	Remove and reinstall a new valve, being careful not to overtighten.
Valve does not shut off completely when closed		

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WARRANTY

Seller warrants equipment (and its component parts) of its own manufacture against defects in materials and workmanship under normal use and service for one (1) year from the date of installation or start-up, or for eighteen (18) months after the date of shipment, whichever occurs first. Seller does not warrant accessories or components that are not manufactured by Seller; however, to the extent possible, Seller agrees to assign to Buyer its rights under the original manufacturer's warranty, without recourse to Seller. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the serial number, the type of equipment, and the date of purchase) within thirty (30) days of the discovery of such defect during the warranty period. No claim made more than 30 days after the expiration of the warranty period shall be valid. Guarantees of performance and warranties are based on the use of original equipment manufactured (OEM) replacement parts. Seller assumes no responsibility or liability if alterations, non-authorized design modifications and/or non-OEM replacement parts are incorporated. If requested by Seller, any equipment (or its component parts) must be promptly returned to Seller prior to any attempted repair, or sent to an authorized service station designated by Seller, and Buyer shall prepay all shipping expenses. Seller shall not be liable for any loss or damage to goods in transit, nor will any warranty claim be valid unless the returned goods are received intact and undamaged as a result of shipment. Repaired or replaced material returned to customer will be shipped F.O.B., Seller's factory. Seller will not give Buyer credit for parts or equipment returned to Seller, and will not accept delivery of any such parts or equipment, unless Buyer has obtained Seller's approval in writing. The warranty extends to repaired or replaced parts of Seller's manufacture for ninety (90) days or for the remainder of the original warranty period applicable to the equipment or parts being repaired or replaced, whichever is greater. This warranty applies to the repaired or replaced part and is not extended to the product or any other component of the product being repaired. Repair parts of its own manufacture sold after the original warranty period are warranted for a period of one (1) year from shipment against defects in materials and workmanship under normal use.