

VA-1164 LLC PILOT HEAD **INSTALLATION AND OPERATION**



APPLICATION:

The Cordova VA-1164 by Clippard is a standalone level control head used to replace common cantilever or torque tube level control heads that either don't perform consistently, or are high bleed controllers. The VA-1164 is snap acting and simply screws on any Wellmark® or McAfee (MMI®) displacer tube with standard ¾"-16 threads. No need to blow down the production unit or even stop production to replace the Wellmark® or McAfee (MMI®) pilot heads as the VA-1164 "switch out" takes less than 5 minutes. The VA-1164 pilot head includes a threaded sight glass for visual inspection of the set point. The threaded sight glass helps keep dust out of the "nozzle" area which contributes to overall performance of the controller unlike the Wellmark® or McAfee (MMI®) versions. The VA-1164 also includes an integral filter for the supply pressure, a manual dump button, as well as a threaded port for vent gas piping upon dump blow downs.

SPECIFICATIONS:

Supply Pressure	20 psi Minimum – 30 psi Maximum
Manifold Material	Black Anodized Aluminum
Input/Output Supply Connections	¾" NPT
Vent Connection	1/8" NPT
All Seal Materials	Viton
Valve Components	ENP
Operating Temperature	-13° F to +185° F (-25° C to +85° C)
Inlet filter	Stainless
Dimensions	See: "VA-1164 Drawing and Dimensions" @ www.cordovaflow.com

INSTALLATION & OPERATION:

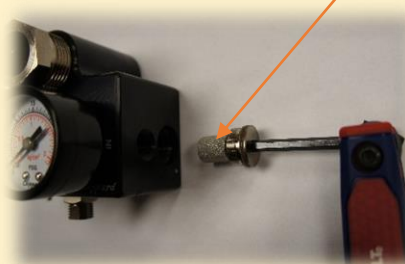
1. The Cordova VA-1164 pilot head can be installed without blowing down the production unit and in most cases while the production unit is flowing. It takes approximately five minutes to switch out a **Wellmark® or McAfee (MMI®)** pilot head and install a Cordova VA-1164, however it is the sole responsibility of the installer to decide if there is enough time to complete the installation while fluid is flowing. If the installer feels that there is not enough time or fluid is constantly flowing, shut the production unit in, but do not blow down the unit. Proceed to step 2.
2. Isolate supply pressure to the **Wellmark® or McAfee (MMI®)** pilot head. This can usually be accomplished by backing off the regulator that supplies the pilot head until there is no pressure, or simply shut a valve if there is one present.
3. In most cases, simply disconnect the tubing on the inlet and outlet of the **Wellmark® or McAfee (MMI®)** pilot heads, remove the tubing fittings from the pilot head to be replaced, re-tape the threads with thread tape or thread sealant and thread to the inlet and outlet ports of the VA-1164. **Use caution to ensure no thread tape, sealant, or foreign particles enter the ports of the VA-1164 when threading connections.** If the inlet and outlet of the ports are hard piped, follow the same procedure allowing for more time for installation.
4. Loosen the jam nut securing the adjustment nozzle on the **Wellmark® or McAfee (MMI®)** pilot head and turn the adjustment nozzle counter clockwise to ensure clearance between nozzle and actuation pad when spinning the pilot head off of the torque tube. Loosen ¼"-16 jam nut behind existing pilot head and unscrew the pilot head from the torque tube.
5. Screw the VA-1164 on to the torque tube until the adjustment nozzle lines up internally with the actuation pad on the torque tube (make sure adjustment nozzle on the VA-1164 is adjusted out as well so the nozzle does not hit the actuation pad). Hold in place and tighten ¼"-16 jam nut to secure pilot head. Adjust the adjustment nozzle as you would for the **Wellmark® or McAfee (MMI®)** pilot heads to find and maintain level.
6. Re-connect supply and output lines.
7. Set supply pressure at 25psi for optimum operation.
8. Screw the adj. nozzle up or down to find desired level and secure adjustment nozzle jam nut.
9. Observe a couple of dump cycles for repeatability of liquid level.

MANUAL DUMP AND INLET FILTER:

Manual Dump Button



Supply Gas Inlet Filter (3/16" Allen head)



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