

The New CVS 110

- ▶ **Reduce the risk of a reportable spill**
- ▶ **Simplify your API coupler maintenance and reduce the risk of non-intentionally short-changing customers**
- ▶ **Protect the loading arm contents from intentional draining**



The **LIQUIP** CVS110 is the latest in protective bottom loading technology, helping to reduce reportable spills, ensuring customers get the complete metered volume of fuel, helping to simplify API coupler maintenance and protecting the coupler contents from opportunistic and intentional loading arm draining.

The bottom loading checkvalve fits immediately upstream of the API coupler, serving a multitude of functions which benefit bottom loading arm terminal operators.

The valve is designed to hold back the product in the loading arm so that the pipework will not drain when the API coupler is opened. For example if the arm is accidentally connected to the wrong compartment and the coupler opened, a volume of product can spill into the tanker pipework prior to pumping starting. This can contaminate the correct product when the correct arm is finally connected.



CVS 110 Check Valve for Loading Arm

REDUCE THE RISK OF A REPORTABLE SPILL



Should the API coupler fail for any reason upon disconnection from the vehicle after loading, the CVS110 will hold back the contents of the bottom loading arm, preventing an otherwise almost certain spill.

SIMPLIFY YOUR API COUPLER MAINTENANCE AND REDUCE THE RISK OF NON-INTENTIONALLY SHORT-CHANGING CUSTOMERS



To perform API coupler maintenance it is common practice to drain the contents from the loading arm before removing the coupler. When the API coupler is then replaced and the arm put back into service, the next user of the arm will be shortchanged the contents of the loading arm from his load. Because the metering system is calibrated with a full loading arm, essentially each truck takes the product in the arm from the last load and leaves the arm full for the next truck. An empty arm shortchanges the first user of the arm after the arm is put back into service. The arm is also balanced with a full load and will be difficult to operate until it is filled again. With a CVS110 in place, the arm contents do not need to be drained to remove the coupler, eliminating this issue. A handy drain boss on the API side of the poppet allows the fuel inside the API to be cleanly drained off before removing the coupler. Another drain boss on the loading arm side of the poppet enables sampling of the loading arm contents, or complete draining of the arm if required.



PROTECT THE LOADING ARM CONTENTS FROM INTENTIONAL DRAINING



By activating the locking latch on some couplers, it is possible to open the coupler and drain the arm contents without removing the API coupler. The CVS110 protects the fuel within the bottom loading arm in this situation, making it more difficult for pilferage to occur.

TECHNICAL DATA

MATERIALS OF CONSTRUCTION	Aluminium body, poppet and spider. Stainless steel spring & shaft. Viton product seal. Brass drain plugs and over pressure valve.
MOUNTING	4" TTMA flanges.
WEIGHT	4.0 kg
TECHNICAL DATA	Opening pressure in flow direction = 45kPa Over pressure in non-flow direction = 250kPa (emergency relief in reverse direction to allow for thermal expansion).

