

Vapor recovery systems consist of two flow passage lines, one to convey the product and the other to recover the product vapors. Separate product and vapor arms can be installed at the loading rack but systems that incorporate the product and vapor lines into a single system are preferred because both connections can then be conveniently moved out to the transporter simultaneously. Two basic designs with many variations are available:

The OPW Engineered Systems “piggyback” style arm is simple in design yet very functional. It has the vapor line welded to the product arm. This versatile arm can also serve as an unloader by using the “vapor” line to pressurize a railcar or tank truck equipped with a permanent deep pipe.

The Dual Arm or Siamese configuration is the most widely used style vapor recovery assembly. It features separate arms for product and vapor that are joined together at the inner boom structure. One of the more popular variations of this design also has the two counterbalance swivels and the outer arms joined together in a side-by-side arrangement to minimize the overall vertical dimension of the outboard assembly. On most dual arm designs the product line feeds from beneath and the vapor line from overhead.

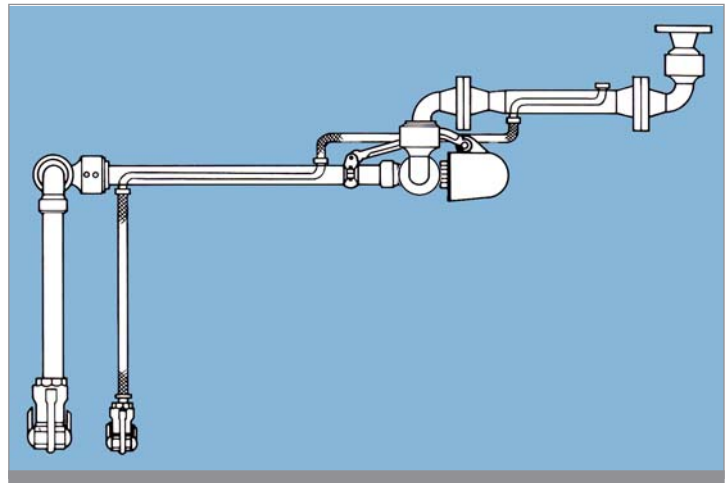
When loading tank trucks and railcars that are equipped with permanent product and vapor connections, the end fittings on the loading arm are typically quick disconnect couplings, dry disconnect couplings, unions, or flanges.

A variety of vapor recovery components are available for those applications where loading takes place through an open dome. These include cover plates, tapered hatch plugs/cones, and the OPW inflatable hatch seal.

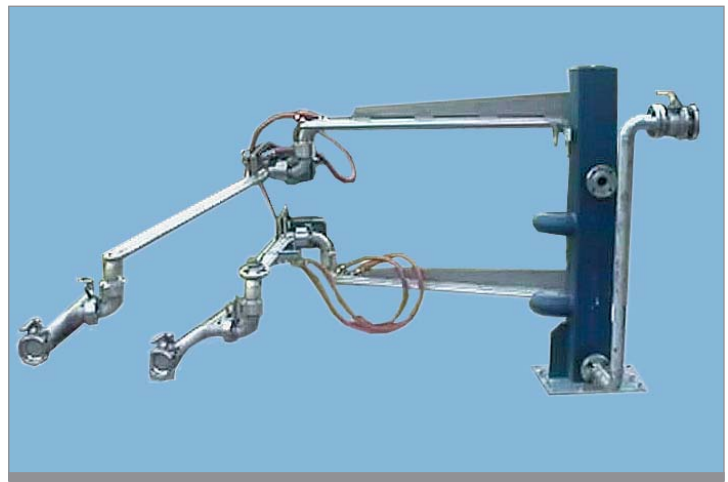
Vapor recovery loading and unloading systems can be steam jacketed or traced, equipped with automatic shut-off controls, or outfitted with whatever additional equipment might be needed for your particular application.

OPW Engineered Systems vapor recovery assemblies are available in 2”, 3”, 4”, and 6”. They are also available in steel, stainless steel, aluminum, and specialty alloys.

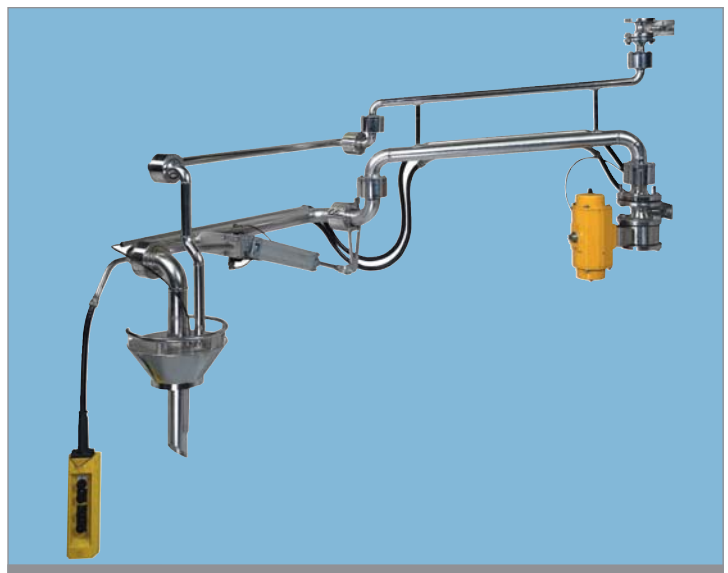
Please consult the factory with your specifications and we will design a vapor recovery loading system to meet your needs.



“Piggyback” Arm



Dual Arm Configuration



Pneumatically Actuated Arm