



Volume 3

An application review of Hex Primary Orifice Valves used for primary shutoff on DP flow measurement impulse piping.

On the following pages you will find detail drawings of traditionally piped, orifice flanges for differential pressure, flow applications.

The slide following each traditional installation demonstrates the piping simplicity that Hex Valve can bring to the same application.

The benefits will become obvious as you go through these pages; less risk and cost because of fewer connections and smaller installations.

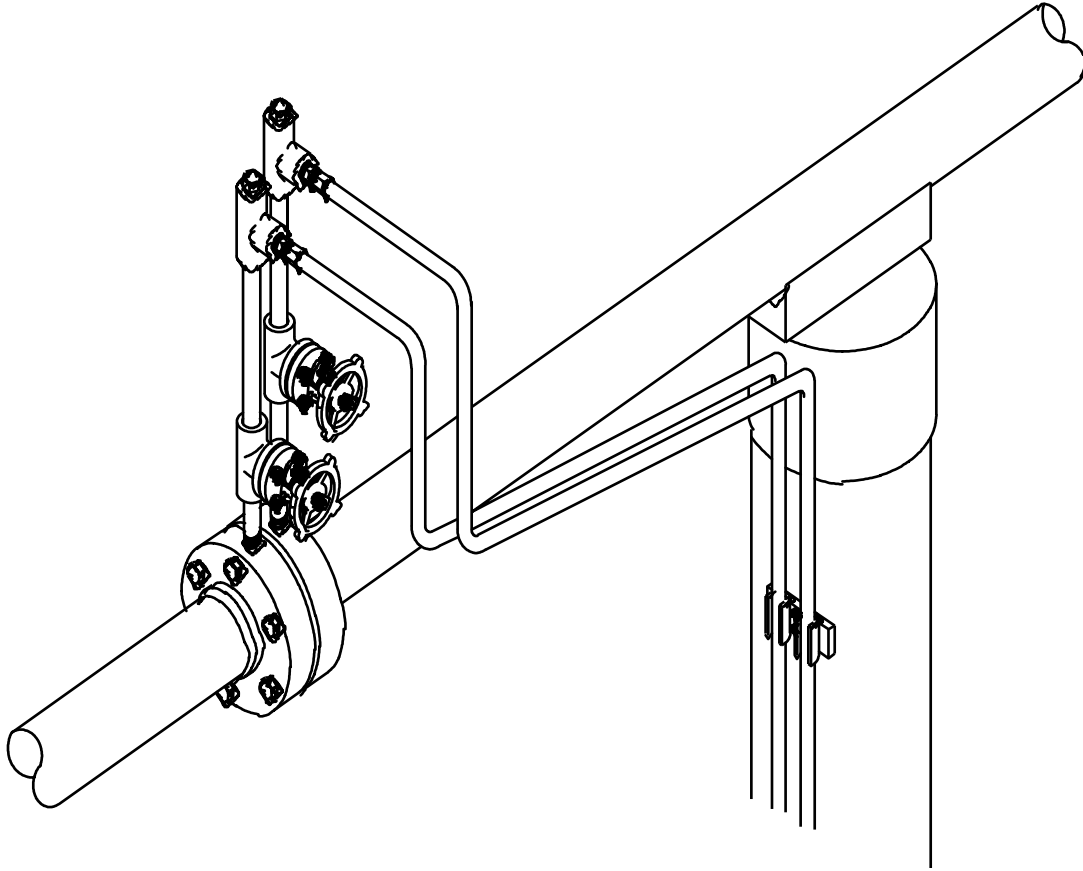
Note: These application reviews were created to illustrate instrument piping simplification techniques, not the position of the instrument relative to the primary tap.

Good Selling,

Karl Lutkewitte



Orifice Flange Installations

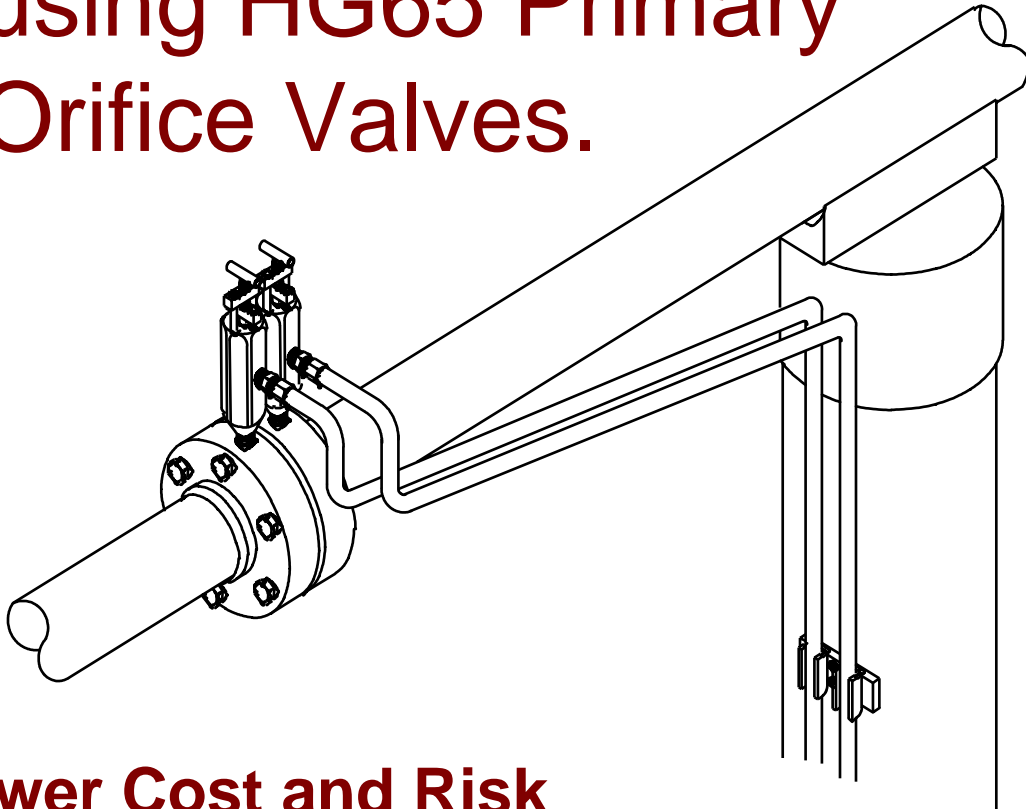


Conventional orifice flange pipe and valve arrangement with multiple staggered valves, nipples, and tees.



Hex Solution #1

Simplified orifice flange pipe and valve arrangement using HG65 Primary Orifice Valves.



Lower Cost and Risk

- * Nine fewer threaded connections
 - Less potential for leaks or fugitive emissions
- * $\frac{1}{2}$ the installation radius
 - Less moment arm, i.e. deflection stress



Hex Solution #2, for “rod-out” installations

Simplified orifice flange pipe and valve arrangement for dirty, viscous or high pour point service using matched pair of Hex HG47 Roddable Valves.



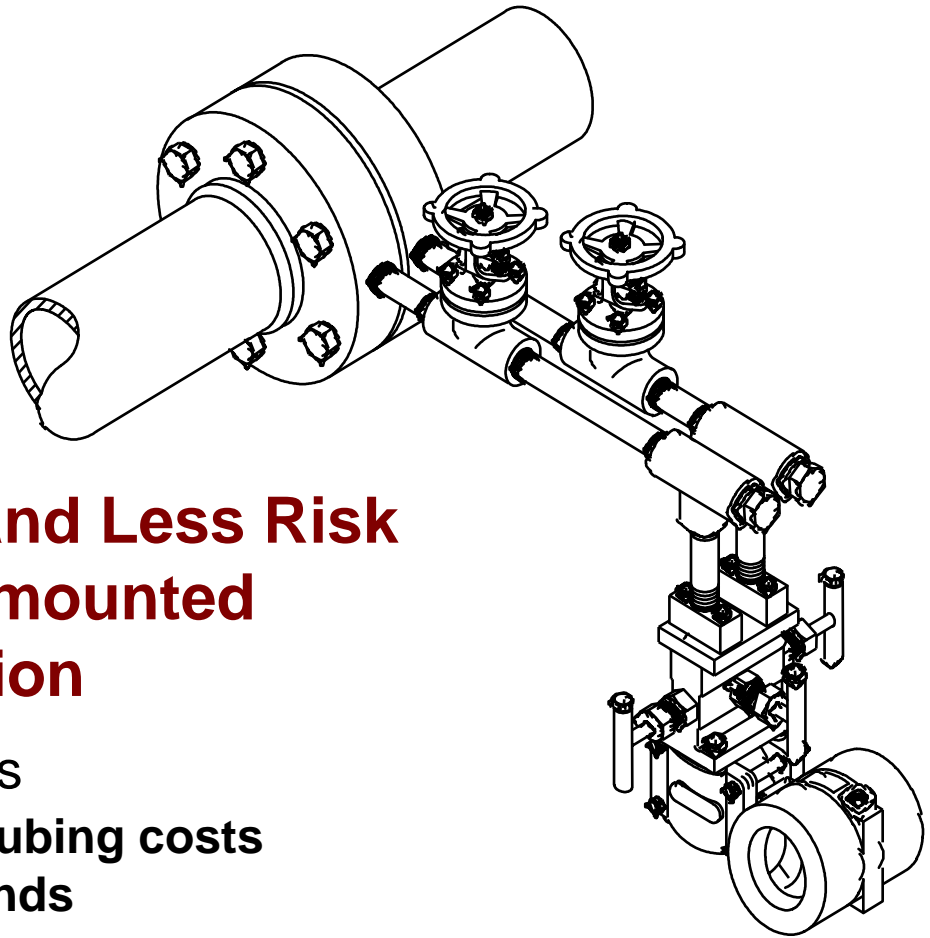
Lower Cost and Risk

- * Same benefits as the preceding installation.



Traditional close-coupled orifice flange installation

Conventional close-coupled Differential Pressure transmitter installation using pipe nipples, tees, and gate or globe valves.



Lower Cost and Less Risk than remote mounted instrumentation

- * CAPex savings
 - No remote tubing costs
 - No Pipe stands
 - Less heat trace

- * More reliable Signal Transmission
 - Faster, more accurate response
 - No lines to blow-down



The Hex Solution

Simplified close-coupled transmitter installation using Hex HG65 Orifice Block Valves, HK11-29 1/2" MNPT futbol flanges, and HM54 Double Flange Manifold.

Lowest Cost and Least Risk

- * Tremendous CAPex Savings and.....
- * Less than ½ the number of components and threaded connections
 - Lower material and installation cost
 - Less potential for leaks and fugitive emissions
- * Less than ½ the installation radius
 - Less moment arm, deflection stress at the inlet connection
 - Less to insulate

