VENT VALVE OPTIONS

Monoflange vent (5.4, 8mm bore)

Twinsafe vent (1", 2" bore)

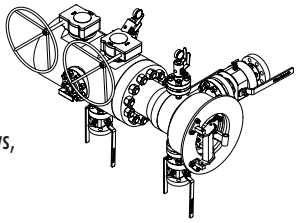
DBB vent (10, 14, 20mm bore)

Needle valve Threaded bonnet vent (5.4, 11, 20mm bore)

Needle valve Bolted bonnet vent (5.4, 11mm bore)

COMPACT PIGGING SYSTEM® CPS®

FEATURES & BENEFITS

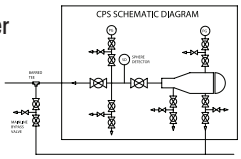


Flexibility - Any length of pig can be introduced.

Standard - A typical launching and receiving station - note schematic shows, "in-line T", oversized hatch V pig bay bore size etc.

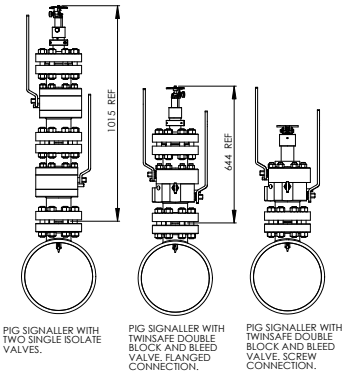
Safety - All valveing are Oliver Double Block and Bleed valves.

Weight saving - 6" high pressure (1500lb) trap, just over 1 tonne, in fact lighter than CPM™.
Space saving - Just over 1.3 meters in length, use CSL Oliver Twinsafe for mainline valve for additional space saving.

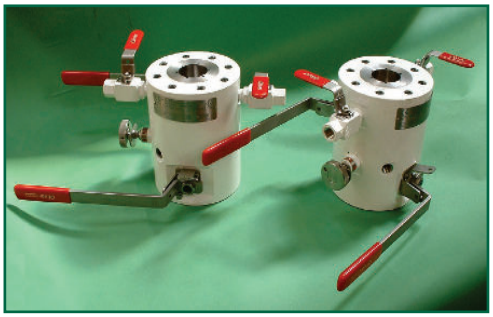


Cost saving - Lower cost than traditionally fabricated pig stations.

COMPACT DOUBLE BLOCK & BLEED PIG SIGNALLING



TWINSAFE LEVEL GAUGE VALVES



Type: LGDBB - Twinsafe level gauge Double Block and Bleed valve.
Used in level Gauge applications where a diaphragm seal pressure transmitter is being used.
The problem is media in tank can solidify, small particles build up on sensing faces leading to false readings.
Pressure Transmitter is isolated and will need to be removed for cleaning.
A Twinsafe designed specifically for Diaphragm seal pressure transmitter applications.
Can clean, drain away contaminates and recalibrate transmitter without removal.
Consists of 5 valves in 1 compact unit.

OPERATION

1, Close the two main isolation valves.
2, Open needle valve vent, venting cavity between balls to ensure a true double barrier.
3, Open small flushing drain valve (located on the bottom) to drain media trapped between second isolate & diaphragm seal.
4, Add cleaning solution under pressure through the purge valve (located at top) due to internal drillings, the cleaning solution hits the diaphragm seal from four angled ports cleaning the entire face.
5, After flushing with cleaning fluid, reverse above procedure.