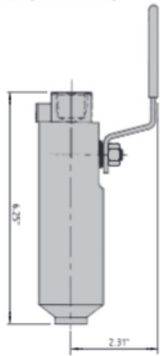


# ROOT VALVES FOR PRIMARY ISOLATION

reliability  
under  
pressure

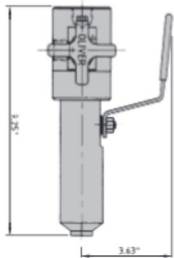
This family of valves is designed for welding into a process line. Offered in many configurations with heavy duty needle valves or ball valves.

## SINGLE BLOCK (BALL VALVE)



OTHER OPTIONS Heavy duty Needle valve as isolate.

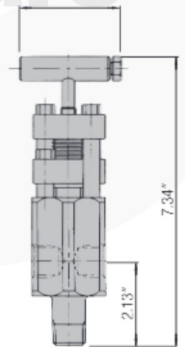
## BLOCK AND BLEED (BALL VALVE – ISOLATE) (NEEDLE VALVE – VENT)



OTHER OPTIONS Ball valve as isolate and Ball valve as vent.

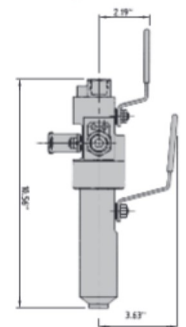


## PRIMARY GAUGE OUTSIDE SCREW AND YOKE VALVE



OTHER OPTIONS Available with handle locking.

## DOUBLE BLOCK AND BLEED (ALL BALL VALVES)



OTHER OPTIONS Two Ball valves as blocks and one Needle valve as vent. Three Needle valves as blocks and vent.

### Major Weaknesses with Traditional Installation

- Cost of installation.
- Overall Size.
- Increased Gland Emission Risk.
- High bending moments hence need for gusset plates.
- Large number of potential leak points within assembly.
- Increased installation time due to complex arrangement.
- On-site welding due to gusset plates.
- Large number of items to stock and to purchase.

### Major Advantages of Oliver Solution

- Safe Hook Up by Elimination of many potential leak points.
- Very cost competitive installation.
- Major space saving.
- Major weight saving.
- Compact/lightweight significantly reduces bending moments and pipework stresses.
- Firesafe to BS 6755 Pt 2, API 607 and API 6FA.
- Simplification of installation – direct labour time savings.
- Wide range of 6000 PSI, Ball, Needle and Check Valve styles.
- Wide range of materials and configurations (including NACE) on fast deliveries.
- One item only to stock.
- Greatly reduced maintenance.

