



APPLICATION BRIEF - 34/0408

INDUSTRY: PETROLEUM

PRODUCT: DOUBLE BLOCK AND BLEED BALL VALVES

MEDIA: PETROCHEMICALS

IMI PBM Solution:

A major oil refinery was looking to optimize isolation of process flow measurement instrumentation on a coker unit. The flow measurement design used a solid wedge meter. Tight shut off is critical to safety when the need arises to isolate instruments for repair or replacement from a high temperature process flow stream. IMI PBM offered a fast operating quarter turn double block and bleed ball valve. IMI PBM's two-inch full bore 300# flanged valves were installed on each side of the weir and could handle the abrasive produces fluid at elevated temperatures and provide a tight shut-off. These single bodied valves contained two ball valves in a single body with a bleed port to permit release trapped process fluid between the two balls. The use of the two valves in a single body provided a redundant safety feature. In the event one valve failed, the other would continue sealing against the process flow. With both valves closed, the bleed permits dissipation of process fluid trapped in the small cavity between valves. Extended locking lever handles were used to allow for insulation clearance.

