

# DENALI PV PORTED VALVE



The Tier 1 Denali PV is a ball-actuated, hydraulically shifted, annular access valve that is utilized to direct flow to, or from, a specific location in the wellbore.

Multiple valves may be installed with the casing string and each with a specific size of ball seat. The valves are positioned in order so that the smallest seat is at the toe and progressively larger towards the heel.

To function the valve a specific size ball is pumped from surface. This ball will land on the targeted seat and pressure can be applied to overcome the opening shear value in the valve. The sleeve then shifts into the locked-open position. In this position the ball acts as a pressure barrier diverting flow to the annulus only and preventing further flow down the ID of the casing past the valve.

## CURRENT SIZES

- ⇒ 88.9mm  
(13.69-18.90 kg/m)
- ⇒ 114.3mm  
(17.26-22.47 kg/m)

## STANDARD OFFERING

- ⇒ P-110 / L-80
- ⇒ LT&C box x pin

## OPTIONS

- ⇒ Premium / semi-premium connections
- ⇒ CRA materials
- ⇒ Alternate API material grades
- ⇒ Other sizes available on request

## FEATURES & BENEFITS

- ⇒ Flow area through ports exceeds ID flow area to eliminate pressure drop through valve.
- ⇒ Full drift ID upon seat removal.
- ⇒ Specialized shear pins eliminate inconsistencies in shear values due to improper or inconsistent user installation.
- ⇒ Setting pressure can be field adjusted from the outside of the packer allowing for on-site response to a change in well conditions.
- ⇒ Easy to mill cast seat material for rapid removal.
- ⇒ Surface hardened seat surface for erosion resistance.
- ⇒ Inner sleeve clears flow ports when opened to minimize flow tortuosity.

## APPLICATIONS

- ⇒ Production
- ⇒ Injection
- ⇒ Stimulation
- ⇒ Cemented / Non-cemented
- ⇒ Vertical / Deviated / Horizontal

