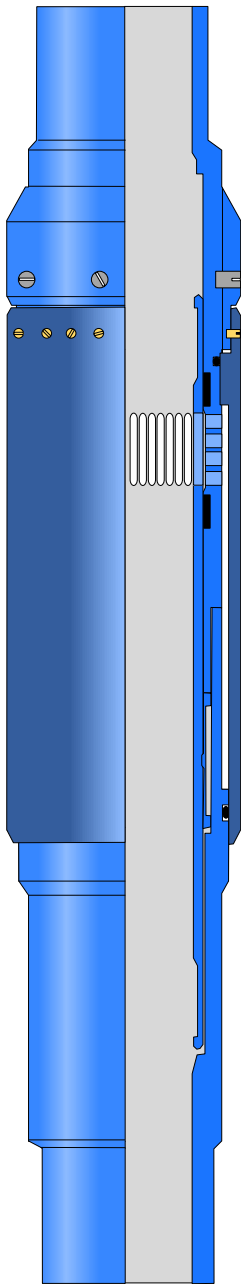


PetroQuip Shrouded APCV™



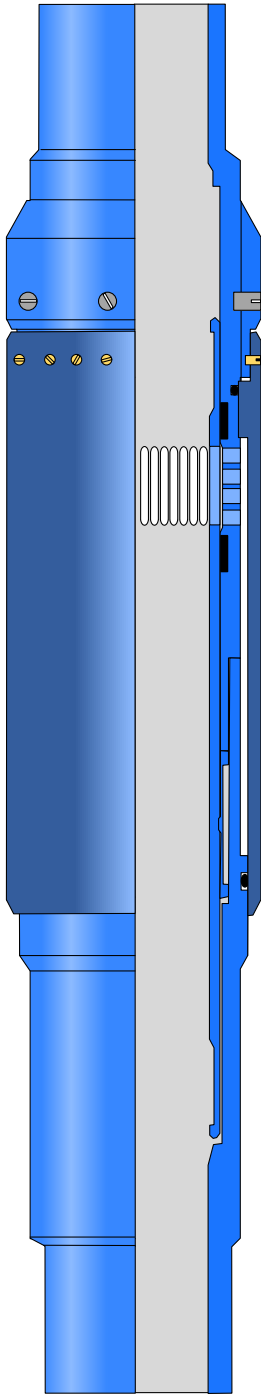
The **PetroQuip Shrouded Annular Production Control Valve Shrouded APCV** is a sliding sleeve mounted on the production tubing above the production packer for fluid displacement. The inner sleeve is run in the open position while a shroud resides over the flow ports. When ready to displace fluid, simply apply pressure to the annulus to open shroud and sleeve without intervention. After hydraulic actuation, it reverts back to a mechanical sliding sleeve with intervention via industry standard shifting tools.

Features and Benefits

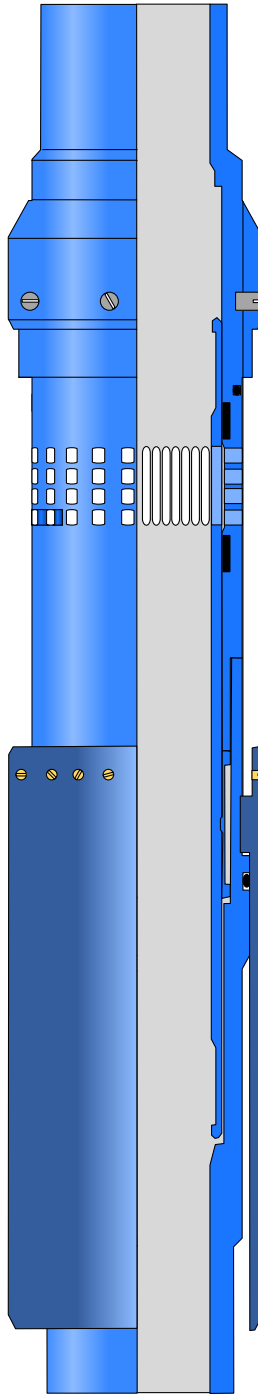
- 10,000 and 15,000 psi pressure rating available
- 5,000 psi shifting pressure differential
- 400°F maximum temperature rating
- Proprietary seal stack
- Large flow area minimizes erosion
- Proprietary metal-metal sealing threads
- Hydraulic shifting down, followed by mechanical shifting in either the up or down position
- Upper sub has a seating nipple, allowing for the use of additional equipment

Tubing Size (in)	Series	Shroud OD (in)	Nipple Profile (in)	OAL (in)	Material Yield Strength (KSI)	Burst & Collapse Rating (psi)	Temp Rating (°F)	Flow Area Thru Ports (in ²)
2-7/8	366	4.75	2.313	66	80	10,000	400	11.04
3-1/2	410	5.255	2.562	75	80	10,000		12.20
3-1/2	425	5.505	2.562	75	120	15,000		12.53
4-1/2	562	6.755	3.813	92	80	10,000		16.70
4-1/2					120	12,500		

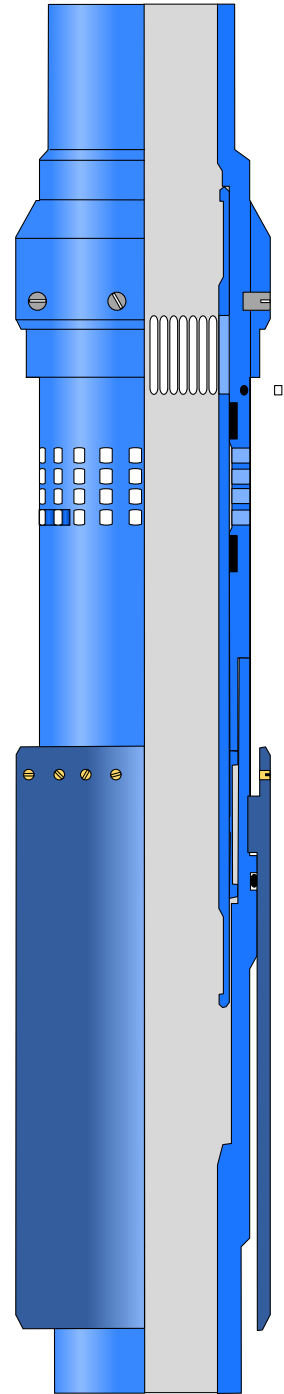
Shrouded APCV



Shroud Closed



Shroud Open



Sliding Sleeve Closed