

# K-Frac Hydraulically-Actuated Starter Valve

## OVERVIEW

The Logan Hydraulically Actuated Starter Valve (HASV) is strategically placed at the toe or first frac zone port when used in the ball actuated frac valve system. The HASV is also utilized in plug and perf operations to open the toe of the liner to pump plugs and guns to depth.

### Full Bore Inside Diameter

External shifting components eliminate any ID reduction and any drill out requirements to gain lower access of the liner.

### Adjustable Actuation Pressure

The hydraulic opening pressure can be adjusted prior to installation.

### Locked Open

Once actuated, the valve is permanently locked open.

### Design and Manufacturing Standards

The HASV is designed with performance specifications equal to that of the liner casing.

Size (in)	Connection	Max OD (in)	Tensile (lbs)	Burst (psi)	Collapse (psi)	Activation Pressure (psi)
4.50	4.500 8RL	5.50	269,000	5,000	5,000	2,850 – 3,150

