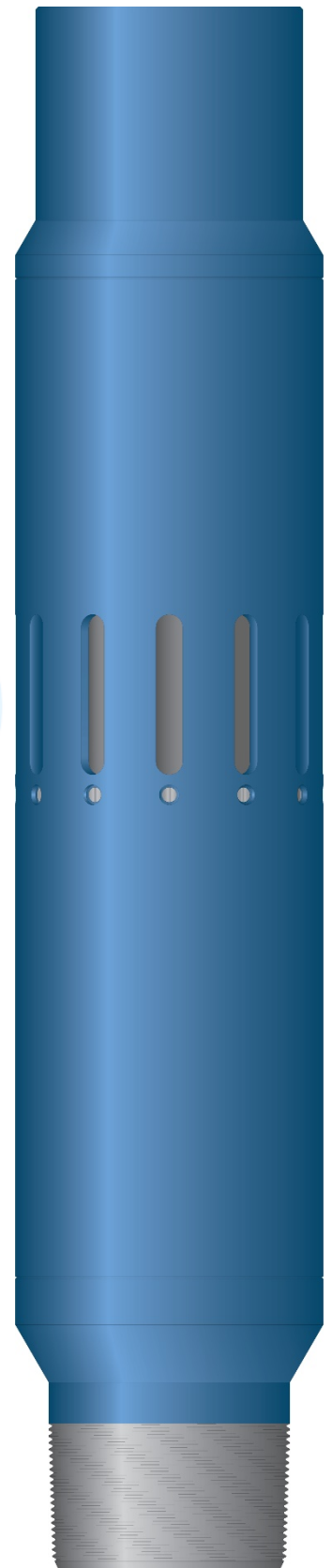


The SUREstart™ XP Valve is a pressure actuated sliding sleeve which is designed to be run on the bottom of a cemented completion string, providing a method of pressure testing the casing, then initiating the first fracturing stage. When surface pressure is applied to open the valve, circulation is established with the formation to allow for subsequent treatment operations. Once activated, the spring assisted piston and lock open feature ensures that the sleeve is always fully open.

Features and Benefits

- Compact design for ease of handling (no pup joints required)
- Internal piston is protected and hydraulically balanced to prevent premature activation
- Spring assisted piston and magnetic lock-open feature ensures valve fully opens and remains open
- Equipped with interchangeable burst disks, available in 500 psi (3.5 MPa) increments
- Flow port area designed to prevent screen out
- Full drift I.D. to allow standard wiper plugs to pass through the valve unimpeded
- Torque through capability
- Rated to 400° F (204° C) with standard trim, elastomer upgrades available
- Available with total pressure rating up to 20,000 psi (138 MPa)



Specifications					
Size	Casing Range	O.D.	I.D.	Connection Size	Max. Total Pressure
in mm	lb/ft kg/m	in mm	in mm	in mm	psi kPa
4-1/2 114.3	13.50 - 15.10 20.09 - 22.47	5.900 149.86	3.815 96.90	4.50 114.3	17,000 117,211
	11.60 - 13.50 17.26 - 20.09		3.895 98.93		15,000 103,421
5 127.0	18.00 26.79	5.780 146.81	3.620 91.95	4.50 & 5.0 114.3 & 127.0	20,000 137,895
5-1/2 139.7	17.00 - 23.00 25.30 - 34.23	6.125 155.58	3.895 98.93	5.50 139.7	
		7.250 184.15	4.787 121.59		