



S-Series Subsurface Safety Valve

Get economical, fail-safe protection at shallow setting depths

The Baker Hughes, a GE company (BHGE), **S-Series™ subsurface safety valve** delivers fail-safe performance in slim outside diameter (OD) applications at setting depths up to 2,000 ft (610 m). Available in 3½-in. and 4½-in. sizes and with pressure ratings of 5,000 psi (345 bar) and 10,000 psi (689 bar), the valve offers exceptional value without sacrificing reliability.

The S-Series safety valve is validated per the most recent edition of *API SPEC 14A Specification for Subsurface Safety Valve Equipment, Twelfth Edition*. Per this specification, subsurface safety valves must now undergo more stringent prototype testing than was previously required. Because BHGE safety valve testing protocols already exceeded earlier validation standards, the new validation specifications were quickly integrated into the testing program for the S-Series valves.

The valve is actuated by a hydraulic piston to deliver higher working pressures, reduced leak paths, a deeper setting depth, and more reliable operation. Once in the fully

open position, the flow tube sits down in the bottom sub to provide enhanced debris exclusion. Interfaces at the top of the flow tube are machined with specific tolerances to further enhance the valve's ability to function reliably in the presence of debris. BHGE **RBT™ metal-to-metal thread technology** delivers gas-tight sealing and high tensile ratings.

An optional through-the-flapper self-equalizing system provides a high integrity seal without the conventional failure modes. The valve also offers an optional puncture communication system to eliminate linear sleeves, inadvertent communication, and accidental activation of the lock-open feature.

Contact your local BHGE representative today to learn more about how the BHGE S-Series subsurface safety valve can deliver fail-safe performance at a cost-effective price point in your next shallow-water completion.

Applications

- Setting depths up to 2,000 ft
- Cost-sensitive completions

Benefits

- Allows control line bypass and use of smaller casing programs to reduce costs
- Features a proven standard jam nut control line connection to simplify installation
- Provides 100% metal-to-metal sealing at all pressures via a field-proven flapper closure mechanism
- Meets stringent Gulf of Mexico regulations designed to protect personnel, infrastructure, and the environment

Specifications											
Size	Working Pressure		Maximum seal bore		Product family number	Setting depth rating		Maximum temperature		Minimum temperature	
	in.	psi	bar	in.		mm	ft	m	°F	°C	°F
3.5	5,000	345	2.812	71.4	H82737/38	1,000 or 2,000	305 or 610	300	148.9	33	0.6
	10,000	689	2.812	71.4	H82739/40						
4.5	5,000	345	3.812	96.8	H82737/38						
	10,000	689	3.812	96.8	H82739/40						

Configurations			
Options	Designator	3.5-in. S-Series valve 5,000 and 10,000 psi	4.5-in. S-Series valve 5,000 and 10,000 psi
Base configuration	S	x	x
With seal bores and profile	BX	2.81 'BX' profile	3.81 'BX' profile
With communication	C	x	x
With equalization	E	x	x
Base metallurgy	-	13 Cr	13 Cr
Setting depth rating	-	1,000 or 2,000 ft	1,000 or 2,000 ft
End connections	-	EU 8 round (other thread configurations available upon request)	EU 8 round (other thread configurations available upon request)

Sample designators	
3.5-in. S[E]-10	Base configuration and optional equalizing flapper
3.5-in. SBX[E]-10	Base configuration with seal bores, profile and optional equalizing flapper
3.5-in. SBXC[E]-10	Base configuration with seal bores, profile, communication capability for WRSV, and optional equalizing flapper

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