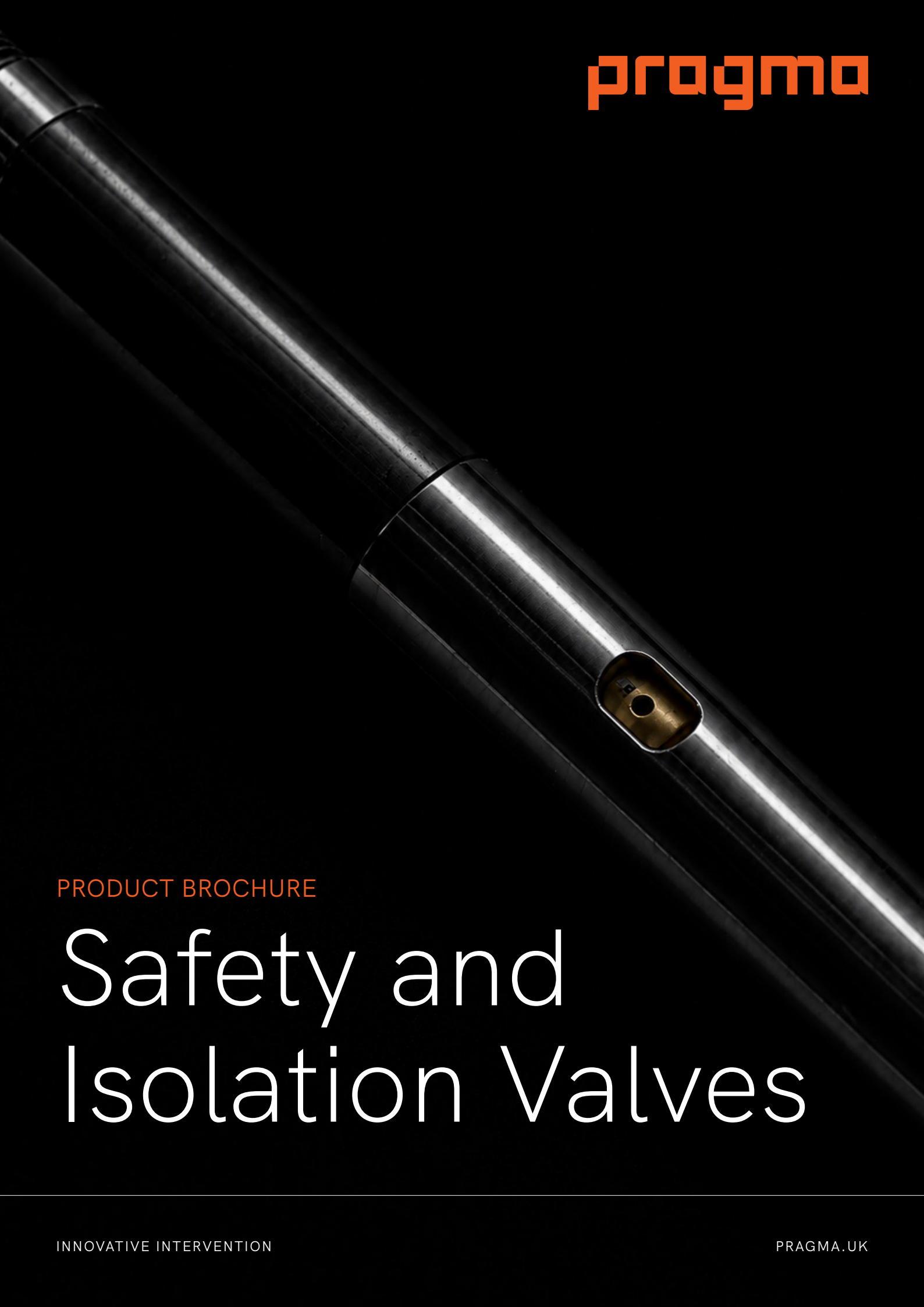




pragma

PRODUCT BROCHURE

Safety and Isolation Valves

Technology innovation with quality and reliability at the core.

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Pragma is a specialist in innovative downhole technology for the global energy industry. We design and manufacture tools to solve current and emerging challenges for the oil and gas, gas storage, CCUS, hydrogen storage and geothermal production sectors.

With a team of in-house engineers, we can deliver the solutions you need. We're committed to your success and will support you through product supply, advice, training and first deployment.

DOWNHOLE VALVES

Slim Pump Isolation Valve



- No control line or nipple required
- Simple and flexible deployment
- Bi-directional sealing

Pragma’s unique Slim Pump Isolation Valve (SPIV) is incorporated into cable deployed ESP or jet pump systems, providing an API qualified valve with minimal additional system complexity. It is set at the pump depth and activated by pump switch on and off. No control lines, surface control or cable sealing operations are required.

The SP Isolation Valve is an API 14A qualified retrofittable isolation valve intended for deployment with a range of artificial lift methods. The valve requires no existing or additional control lines or nipple profiles to work as it uses ESP or jet pump pressure to operate.

The patented design facilitates bi-directional sealing and unloading at full working pressure. It is surface testable and operates as a fluid loss valve (FLV) and can be used as a deep-set valve.



KEY FEATURES

- Patented design allows bi-directional sealing at full working pressure. Well pressure or surface test pressure boosts valve shut
- FLV operation prevents backspin of ESP
- Metal to metal valve seat and poppet design for reliability
- Subsurface controlled design requiring no hydraulic or electrical power to operate
- Low operating pressure, does not restrict ESP or pump operation or capability

DEPLOYMENT AND OPERATION

- The SPIV can be run on cable, wireline or coil, independently, as part of the ESP assembly, or as part of the packer assembly
- Once deployed, the SPSV is failsafe shut, and is unaffected by well pressure
- Operation of the pump causes the SPIV to open. Once the valve has opened, pump output will not be affected by the valve
- Switching off the pump will cause the valve to shut by means of a biasing spring
- Valve does not need to be equalised to be functioned open

TOOL SPECIFICATIONS

Part Number	OD	Flow Rating	Flow Area	Pressure Rating	Temp. Rating
SP263	2.625"	2,000 bbl/day	0.78 in²	5,000 psi	150°C
SP319	3.190"	5,000 bbl/day	1.59 in²	5,000 psi	150°C

Slim Pump Isolation Valves are 5,000 psi API 14A V3 rated

DOWNHOLE VALVES

Annular Safety Valve



- No control line or nipple required
- Simple and flexible deployment
- Bi-directional sealing

The gas storage Annular Safety Valve (ASV) is designed for conventional gas and hydrogen storage wells as well as traditional gas lift and gas producer wells. The ASV was developed from the patented DTI Slim Pump Safety Valve and offers a range of valuable features and benefits.

The ASV facilitates bi-directional sealing and unloading at full working pressure allowing for both injection and production.

A large flow area also supports high volume operations.

The ASV incorporates a control line pass-thru and is deployed into a nipple profile of a Tubing Retrievable Surface Controlled Sub Surface Safety Valve (TRSCSSSV). This enables hydraulic communication to facilitate surface control of the ASV and the TRSCSSSV separately. It is surface testable and allows quick reinstatement in the event of failure.



KEY FEATURES

- Bi-directional sealing at full working pressure. Well pressure or surface test pressure boosts valve shut
- A large annular flow area facilitates fast, high-volume injection and production operations
- Metal to metal valve seat and poppet design for reliability
- Hybrid high-performance elastomer and non-elastomeric packing seals for reliability

DEPLOYMENT AND OPERATION

- Control line bypass to allow one nipple to operate both the ASV and a TRSCSSSV
- Valve does not need to be equalised to be functioned open
- Once deployed, the Gas Storage Annular Safety Valve is failsafe shut, and is unaffected by well pressure or tubing pressure
- Large annular flow area for high gas and fluid flow rates

TOOL SPECIFICATIONS

Part Number	OD	Flow Area	Yield
SP-ASV625AC4021K	6.240"	5.0 in ²	200,000 lbs

Annular Safety Valves are 5000 psi API 14A V3 rated



Get in touch today to find out
more about Pragma's technology
for every well

enquire@pragma.uk
[+44 1224 937631](tel:+441224937631)
pragma.uk

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