Inter Remote Shatter Valve (IRSV)

Description

The IRSV is a qualified barrier valve, which is remotely opened. It can be integrated as part of the completion string or installed below an intervention packer. By cycling the well pressure above the valve for a predetermined number of cycles, the barrier element will shatter. This leaves a full bore ID through the valve for production or intervention. No parts of the barrier element will remain when production starts. The glass element is designed to withstand extreme bidirectional loads and high temperatures. Only a small volume of glass is required to hold the load and the glass disintegrates into small particles after removal.

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Application

The IRSV provides a barrier when running new completion strings. It's used for setting of the completion packer and pressure integrity testing of the tubing. This protects lower zones while finishing of the upper completion installation is performed. Remote actuation enables complete removal of the barrier without any further intervention. When used along with a barrier intervention packer, such as the LBP, ME or HPHT, the IRSV provides an intervention barrier that can be remotely opened by pressure cycling. The barrier packer can then be retrieved at a convenient time.

Benefits

- Debris tolerant activation system
- Non Explosive opening operation
- Box/pin connections according to customer specifications
- Installation and removal of the IRSV requires no intervention
- Run as part of the completion string or below an intervention packer
- Contingency opening of the IRSV can be done by use of mill, shoot down tool or spear

Technical Specifications

Model	ID	OD	Differential pressure Rating (ISO 14310 V0)	Temperature (ISO 14310 V0)
292-485	2.92"	4.85"	518 bar / 7500 psi	150 °C / 302 °F
400-572	4.00"	5.72"	345 bar / 5000 psi	150 °C / 302 °F
400-587	4.00"	5.87"	432 bar / 6250 psi	150 °C / 302 °F
400-595	4.00"	5.92"	518 bar / 7500 psi	150 °C / 302 °F
467-760	4.67"	7.60"	705 bar / 10222 psi	170 °C / 338 °F
580-825	5.80"	8.25"	432 bar / 6250 psi	150 °C / 302 °F
580-833	5.80"	8.33"	518 bar / 7500 psi	150 °C / 302 °F

Notes

- **Both differential and absolute pressure versions available**
- **Can be qualified to other specifications upon request**