

SMARTSTART PLUS® TIME DELAY TEST + FRAC VALVE

Start your completion off right

SmartStart PLUS® Time Delay Test + Frac Valve is a time delayed pressure-activated sliding sleeve that eliminates the need for tubing-conveyed perforating when completing the toe stage of horizontal wells. This enables you to better meet maximum casing pressure test requirements.

Features

- Optional Time Delay setting of 15, 30, 45 or 60 minutes allows operator to exceed regulatory casing integrity test requirements
- Advanced Port Jetting™ Technology improves injectivity to formation
- One piece mandrel design provides a very robust tool that withstands burst pressure excess of 20,000 psi
- Opening sequence is controlled by a fit for purpose rupture disc that is designed to resist plugging or bridging at the membrane
- Mandrel design with TORQ Thru™ Technology maintains casing string integrity and yield torque ratings. The tool can be “through torqued” onto the casing string for ease of make up
- Exceeds all safety and environmental standards



Packing lots of utility in a small footprint, Smartstart PLUS® is a reliable and cost-effective alternative for long, horizontal stage-1 completions.

SMARTSTART PLUS® 15 TIME DELAY TEST + FRAC VALVE

Part Number	Connection Size	Max O.D.	Min I.D.	Make Up Length (ft)	Delay Min.	Temp. Rating	Flow Area	Torque Rating ft/lbs	Working Pressure
TC-MV-450-0000	4.5	5.65	3.34	6.00	15	325°F	6.8	15,000	19,000
TC-MV-450-0000-SE	4.5	5.65	3.34	6.00	15	375°F	6.8	15,000	19,000
TC-MV-455-0000	5.0	5.65	3.34	6.00	15	325°F	6.8	15,000	19,000
TC-MV-455-0000-SE	5.0	5.65	3.34	6.00	15	375°F	6.8	15,000	19,000
TC-MV-551-0000	5.5	6.5	3.75	5.25	15	325°F	7.5	20,000	21,000
TC-MV-551-0000-SE	5.5	6.5	3.75	5.25	15	375°F	7.5	20,000	21,000
TC-MV-570-0000	5.5	7.38	4.60	5.25	15	325°F	7.5	20,000	20,000
TC-MV-577-0000	5.5	7.38	4.67	5.25	15	375°F	7.5	20,000	20,000
TC-MV-575-0000	5.5	7.50	4.50	5.25	15	325°F	7.5	20,000	23,000

SMARTSTART PLUS® 30 TIME DELAY TEST + FRAC VALVE

Part Number	Connection Size	Max O.D.	Min I.D.	Make Up Length (ft)	Delay Min.	Temp. Rating	Flow Area	Torque Rating ft/lbs	Working Pressure
TC-MV-450-0000-EX	4.5	5.65	3.34	6.00	30	325°F	6.8	15,000	19,000
TC-MV-450-0000-EX-SE	4.5	5.65	3.34	6.00	30	375°F	6.8	15,000	19,000
TC-MV-455-0000-EX	5.0	5.65	3.34	6.00	30	325°F	6.8	15,000	19,000
TC-MV-455-0000-EX-SE	5.0	5.65	3.34	6.00	30	375°F	6.8	15,000	19,000
TC-MV-551-0000-EX	5.5	6.88	3.75	5.25	30	325°F	7.5	20,000	21,000
TC-MV-551-0000-EX-SE	5.5	6.88	3.75	5.25	30	375°F	7.5	20,000	21,000
TC-MV-570-0000-EX	5.5	7.38	4.60	5.25	30	325°F	7.5	20,000	20,000
TC-MV-577-0000-EX	5.5	7.38	4.67	5.25	30	375°F	7.5	20,000	20,000
TC-MV-575-0000-EX	5.5	7.50	4.50	5.25	30	325°F	7.5	20,000	23,000

* 45 and 60 minute tools are available upon request

For more information, and to find a representative near you, [visit nineenergyservice.com](https://www.nineenergyservice.com)