

ReAct Tracer Deployment Valve

The function of the ReAct™ tracer deployment valve (TDV) is to introduce a chemical tracer into the production fluid upon expiry of a pre-programmed time delay. It is normally installed as an integral part of the lower completion string in either the well's motherbore and/or lateral section. Installation of the TDV provide effective reservoir and well surveillance information without the normal risk and cost associations with intervention operations or intelligent completion hardware.

A selection of tracer strips can be installed into the TDV for gradual dispersal and/or a tracer fluid can be stored inside the TDV tracer chamber for a larger chemical fingerprint over a shorter time frame.

The sealed tracer chamber is opened via the TDV ReAct electronic actuation systems, which feature two ReAct electronic units independent of each other for full redundancy.

Following a delay of up to 365 days, the ReAct electronic actuation systems allow well pressure to flood an atmospheric chamber and provide more than 30,000-lb opening force to shift a containment sleeve to the open position. In doing so, the well is permitted to flow through the tracer chamber via the machined flow slots, driving the tracer into the wellbore fluids.



Features

- Field proven electronics
- Delayed activation of up to 365 days
- Two independent electronic actuation systems
- Sealed tracer chamber
- Flow slots to displace from drive tracer

Benefits

- Reduces costs and risks
- Full control on tracer introduction with extremely accurate time clock
- Reservoir and wellbore surveillance

Applications

- Well clean-up monitoring
- Long-term inflow monitoring
- Water break-thru location
- Reservoir flow
- Cross flow evaluation

Technical Data

Nominal Size (in.)	Bottom Thread Type (in.)	Material	OD (in.)	ID (in.)	Length (in.)	Tensile Rating (klbs)	Working Pressure (psi / bar)	Temperature Rating (°F / °C)
5½	5½ Premium	13Cr-80	8.00	3.83	315	320	6,000 / 413	275 / 135