

ReAct Tracer Valve

The function of the ReAct™ tracer valve (RTV) 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 RTV can 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 RTV for gradual dispersal and/or a tracer fluid can be stored in the RTV's tracer chamber for a larger chemical fingerprint over a shorter time frame.

The sealed tracer chamber is opened via the RTV's ReAct electronic actuation systems, which feature two ReAct electronic units, each 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 flow 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 drive tracer.

Benefits

- Reduces costs and risks
- Full control on tracer introduction
- Reservoir and wellbore surveillance

Applications

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

Technical data

Size in.	End connections*	Material*	Max. OD* in.	Min. ID* in.	Length in.	Tensile rating lb	Working pressure psi	Temperature rating °C	Time delay
5.500	5½-in. OD premium	AISI 420 Mod 13% Cr	6.200	2.875	81.0	408,000	5,000	135	Programmable up to 365 days
6.625	6¾-in. OD premium	AISI 420 Mod 13% Cr	7.675	3.870	81.0	465,000	5,000	135	Programmable up to 365 days

*Other sizes and materials available on request.