



A DIVISION OF **precise** 
DOWNHOLE SOLUTIONS™

Oura™ Electric Intelligent Downhole Valve

The Future Is Real-Time



Complete Downhole
Flow Control



Low Power Design
(Solar Compatible)



Real-Time Data
Tubing (Press & Temp)
Annulus (Press & Temp)



Well Optimization
& Workover Savings

- Oura™ = Optimization Using Real-time Automation
- Gas Lift, Water Flood, Polymer Flood, CO2 Sequestration applications
- Complete flow control and the ability to compartmentalize the well (multi-drop)
- Intervention-free and increased sweep efficiencies
- Efficient use of gas with no pressure losses attributed to legacy bellows style valves
- Ability to dynamically change and know your orifice sizes real-time
- Slim hole design fits almost all wellbores



Oura™ Automated Downhole Electric Valve



COMMON MANDREL SIZES

| Connection* | Precise P/N | Outside Diameter (in) | Inside Diameter (in) | Length (in) |
|--------------|-------------|-----------------------|----------------------|-------------|
| 2-3/8" EUE | ODHS_049 | 3.998 | 1.995 | 44 |
| 2-7/8" EUE | ODHS_051 | 4.500 | 2.441 | 44 |
| 3-1/2" EUE | ODHS_053 | 5.165 | 2.992 | 44 |
| 2-3/8" FJ150 | ODHS_031 | 3.750 | 1.933 | 44 |
| 2-7/8" FJ150 | ODHS_032 | 4.265 | 2.441 | 44 |
| 3-1/2" FJ150 | ODHS_033 | 4.890 | 2.992 | 44 |

* Customer specific mandrels available upon request.

PRESSURE / TEMPERATURE SENSORS

| | |
|--|--|
| Sensors Per Valve | 4 Total Tubing (Press & Temp) Annulus (Press & Temp) |
| Pressure / Temperature Sensor Range | 0 to 7,500 psi+ (-40 to 257°F (-40 to 125°C)) |
| Pressure Sensor Accuracy | +/- 0.25 % F.S. |
| Pressure Resolution | 0.3 psi |
| Pressure Stability (Typical) | +/- 0.1 % F.S. |
| Temperature Accuracy | +/- 3.6°F |
| Temperature Resolution | 0.1°F |
| Temperature Stability | +/- 0.1 % F.S. |

TEC COMMUNICATION CABLE

| | |
|--------------------------|---------------------------------------|
| Aarmor (Sheath) Material | 316 SS Incoloy 825 (UNS N08825) |
| OD | 1/4" |
| Wall Thickness | 0.028" |
| Working Pressure | Up to 15,000 psi |
| Conductor Material | Tin or Nickel Plated Copper |
| Conductor Insulation | FEP or PFA |
| TEC Temperature Range | -40°F to 302°F (150°C) |

OURA VALVE

| | |
|---------------------------------|--|
| Body Material | Incoloy Alloy 625 (UNS09925) |
| Offset Material | 2507 Super Duplex (UNS32750) |
| Maximum Static Pressure | 7500 psi |
| Maximum Operational Pressure | 5000 psi |
| Maximum Working Temperature | 257°F (125°C) |
| Elastomer Material | HNBR – Hydrogenated Nitrile |
| Elastomer Hardness | 95 Durometer |
| Orifice Size | 0 - 3/8" - Variable |
| Gas Passage | Qg,max = 1.93 MMscf/d @ 1,200 psi Upstream Qg,max = 3.16 MMscf/d @ 2,000 psi Upstream |

WELLHEAD OUTLET / FEEDTHROUGH

| | |
|---------------------|----------------|
| Wellhead Connection | 1/2" NPT |
| Pressure Rating | 10,000 psi |
| Temperature Rating | -76°F to 440°F |

SURFACE UNIT

| | |
|---|---------------------------|
| Power Consumption (Solar Compatible) | 7.6W Typical 13.6W Max |
|---|---------------------------|

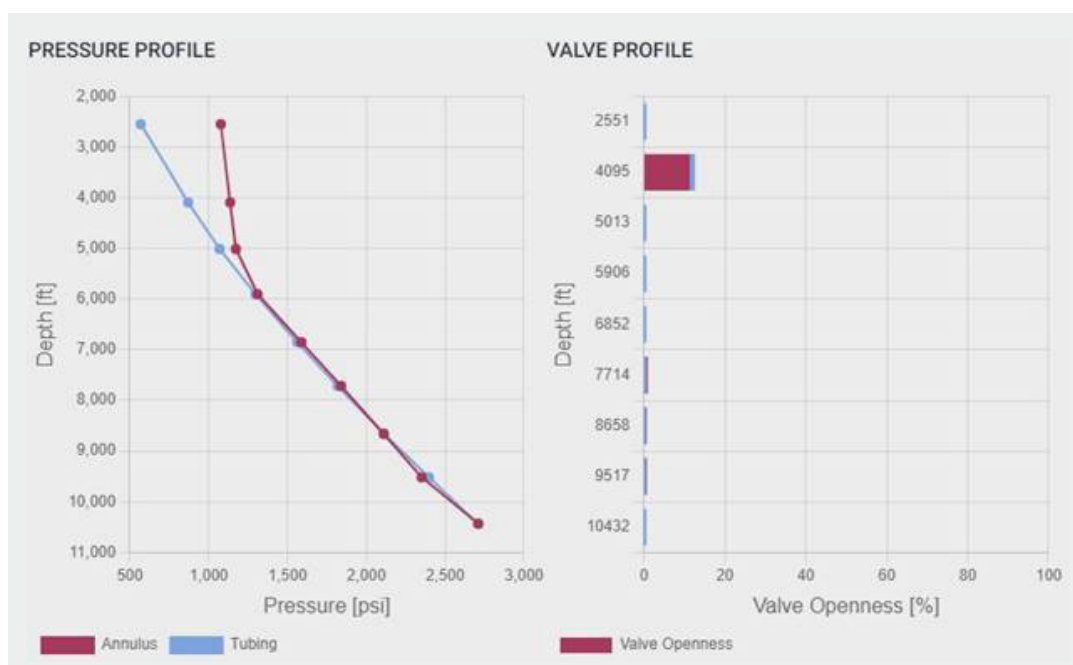
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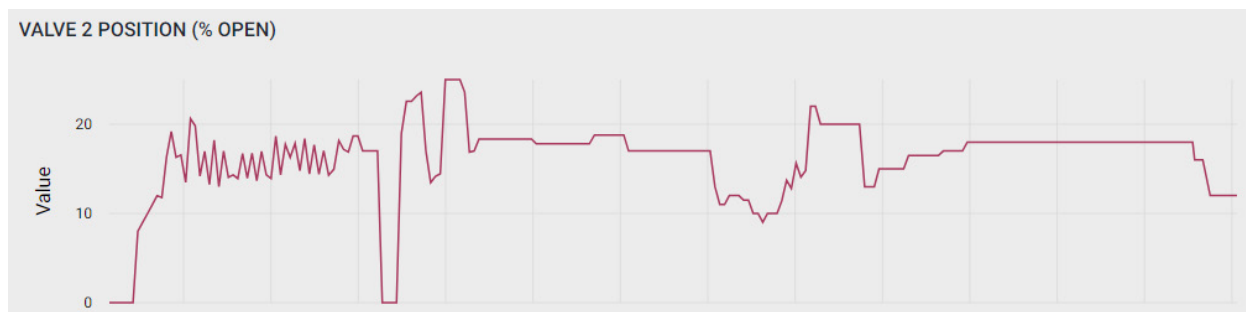
GAS LIFT AUTOMATION

Features:

- Reactive Automation Software: Adjusts orifice size, depth of injection, or shuts in based on changing surface and well conditions.
- Stable Injection: Automated orifice size adjustments maintain stable injection across the operating valve.
- Adjustable Control Parameters: Ability to tune the automation to suit production characteristics.
- Real-Time Pressure Profile: Automation GUI provides live pressure survey.
- Custom Data Trends: Quickly create custom data trends on the automation GUI for in-depth well analysis.



Real-Time Pressure Profile and Valve Positions.



Customizable Trends – Surface Data, Annulus & Tubing P/T, Valve Positions etc.