OXFORD FLOW | CASE STUDY

Reducing OPEX and transforming performance on live gas networks in North America

IM-C Valve

VRG CONTROLS RED OX

BACKGROUND & PROBLEMS WITH TRADITIONAL TECHNOLOGY

- Pressure drop caused monthly valve diaphragm failure
- Replacement components cost $'000s per year
- Installation restrictions meant it had to fit into the same flanged face-to-face gap
- Repeated maintenance required team of 4 technicians to visit site once a month for a whole day
- The line required to be shut off for half a day each visit
- Gas was bled to atmosphere twice per visit to enable parts switch over.

SOLUTION

Oxford Flow installed an IM-C inline top-entry serviceable gas regulator configured as a single stage PRV. Within 7 days data showed it controlled to ±0.1 psi (70mbar), AC of 0.01%, enabling Williams to set setpoint closer to allowable maximum, making system-wide operations more efficient.

BENEFIT

- ⊕ Oxford Flow patented piston technology **eliminates the major failing diaphragm component** & practically eliminates all wear
- ⊕ **Less maintenance required** saving business time & spares replacement costs
- ⊕ Customer technicians said the valve was **noticeably quieter** & emitted a less annoying frequency
- ⊕ Field engineers noted **x4 times quicker valve reaction time** than competitors, enabling an easier & quicker overall install & verification.

OUTCOME

1. **Excellent customer feedback**
2. **Approval for Williams AVL**
3. **Following trial success customer is considering more innovative IM-S for future projects**

> **Williams commented:**
> *"The regulator operates exceptionally well with no variance in realized set pressure, to a class we've never seen. Even though it was frequently failing, we thought that the previous valve was the top of the range, the Cadillac of valves.* ***Now I've seen the IM-C, that would make the Oxford Flow valve a Ferrari!"***

Eliminates	**4x quicker**	Controlled to
the major failing diaphragm component	valve reaction time than competitors	**±0.1 psi** (70mbar)