




HORIZON

Turning Corrosion Monitoring **On Its Side**



AXESS

Case Study

Successful Implementation at a Client Site

The Horizon Fitting was rigorously evaluated through a series of tests, including weldability, hydro-tests, and online retrieval, passing all with operability and ease. The successful application within the clients' facilities validates Horizon Fitting's potential as an industry game-changer across various contexts.



Technical Overview

Parameter	Value	Comments
Fitting Size	1" and 2" Mechanical and Hydraulic	
Maximum Operating Pressure	6,000 psi	10,000 psi available dependent on materials but online retrieving up to 6,000 psi
Maximum Pipe Size	60"	Incline can be adjusted
Minimum Pipe Size	4"	Incline can be adjusted
Maximum Operating Temperature	450°F / 232°C	Dependent on seal materials selected
Minimum Operating Temperature	-70°F / -56°C	Dependent on seal materials selected
Monitoring / Injection / Sampling Devices	All retrievable monitoring or injection and sampling devices (ER/LPR probes, Corrosion Coupons, Quills, Nozzles etc.)	Pitch and adjust flush holder in final stages of development for flush monitoring, enabling pigging operations etc. Potential for this design to be added to ER probes in future.

Conclusion and Recommendations

The Horizon Access Fitting is recommended for global adaptation due to its ability to provide more accurate corrosion data and enhance overall safety. Its implementation is straightforward, matching conventional fitting complexity while yielding far superior results and reducing operational risks. Paired with Janus technology built into the Fitting and Retrieval Tools (the Janus Guard won an AMPP 2023 Innovation Award), this is the safest form of intrusive monitoring available.

By adopting Horizon Access Fittings, the industry can expect a paradigm shift in terms of data reliability, operational safety, and environmental sustainability. This white paper advocates for embracing this innovation not as an alternative but as the new standard for integrity and monitoring in pipeline operations.



 **AMPP™**
Innovation Award **WINNERS 2023**

High-Pressure Corrosion Monitoring Access Fitting: Advanced Safety and Reliability

Introducing our groundbreaking Horizon Access Fitting, designed to revolutionize corrosion monitoring in high-pressure oil and gas processes. Engineered with cutting-edge technology, this access fitting offers unparalleled safety, reliability, and efficiency for pipeline operators and professionals in the energy sector.

With the continuous advancements in technology, it is crucial to stay updated and open to innovations. The Horizon Access Fitting is a prime example of how embracing change can lead to significant improvements in traditional

practices. Furthermore, this white paper encourages further research and development in the field of intrusive corrosion monitoring, to continually improve safety and integrity practices in pipeline operations.





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