

FLEXWELL-HL

Pipe system for gas stations

Flexible, double-wall corrugated pipe system with permanent leak detection

General description

FLEXWELL-HL has been specially developed as a buried pipe for underground service in gas stations carrying flammable and hazardous fluids. FLEXWELL-HL can be operated as a suction or pressure system and can be permanently monitored using suitable leak detectors.

Construction

FLEXWELL-HL is a flexible pipe system made of corrugated stainless steel primary and secondary pipes with aluminium spacers. The interstitial space between primary and secondary pipe can be used for leak detection. The pipe is corrosion protected by a polyethylene jacket. The stainless steel primary pipe provides an enduring, impermeable barrier, even with future fuel additives.

Applications*

- Suction pipes
- Pressure pipes
- Fill pipes

* Subject to compliance with local and national regulations

Sizes and pressure ratings

FLEXWELL-HL is available with an ID of 1 1/4" (DN 32) to 2" (DN 50) for use at an operating pressure of up to 150 PSIG (10 bar).

Installation

FLEXWELL-HL is manufactured in factory lengths up to 1,500 ft. FLEXWELL-HL can be laid directly into a trench in one piece much like an electric cable. The corrugated design of the primary and secondary pipes assure excellent impact resistance while at the same time providing a high degree of flexibility.



Double-wall joints and Ts

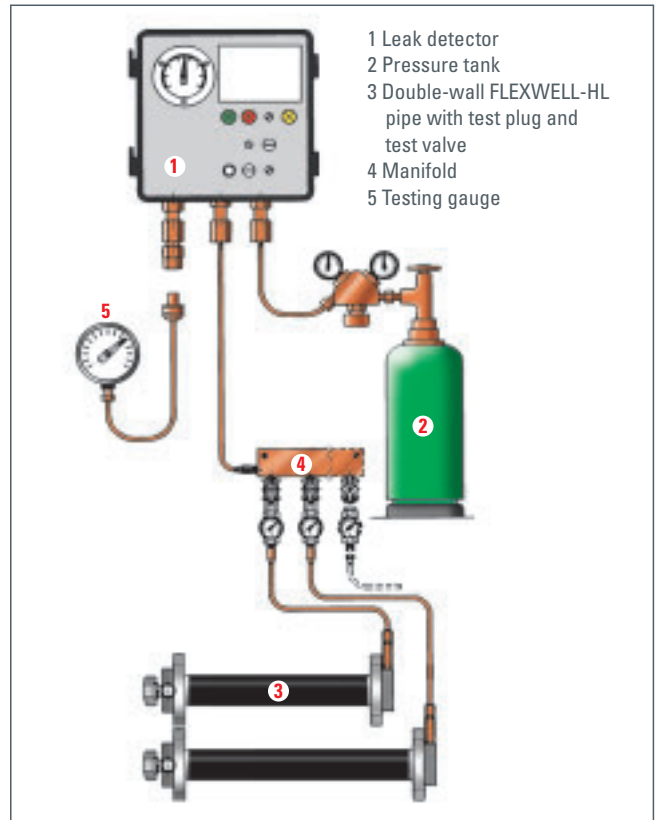
All our joints, T-pieces and other connections are designed for continuous leak monitoring throughout the system.

Leak detection

The interstitial space between the primary and secondary pipes is designed for leak detection via either pressure or vacuum, depending on local regulations or operating requirements.



- 1 corrugated stainless steel primary pipe
- 2 corrugated stainless steel secondary pipe
- 3 polyethylene jacket



- 1 Leak detector
- 2 Pressure tank
- 3 Double-wall FLEXWELL-HL pipe with test plug and test valve
- 4 Manifold
- 5 Testing gauge

FLEXWELL-HL pipe

Positive pressure leak detection

Physical properties of FLEXWELL-HL pipes

Model:		HL 32	HL 40	HL 50
Material:	<ul style="list-style-type: none"> • primary pipe: stainless steel • secondary pipe: stainless steel • corrosion protection: LDPE jacket 	•	•	•
Operating pressure	• vacuum	suction operation	suction operation	suction operation
primary pipe:	• pressure	10 bar / 145 PSI	10 bar / 145 PSI	10 bar / 145 PSI
Nominal ID:		DN 32 (1 1/4")	DN 40 (1 1/2")	DN 50 (2")
Dimensions:	<ul style="list-style-type: none"> • inside diameter (ID) • outside diameter (OD) • volume of primary pipe (liter/m) 	39 mm / 1.5" 60 mm / 2.4" 1.3	48 mm / 1.9" 71 mm / 2.8" 2.0	60 mm / 2.4" 83 mm / 3.3" 3.0
Mean bending radius:		600 mm / 23.6"	650 mm / 25.6"	700 mm / 27.6"
Weight:	(kg/linear m) / (lb/linear ft.)	2.3 / 1.6	3.8 / 2.7	4.8 / 3.1
Permanent monitoring pressure	• vacuum	-0.6 bar	-0.6 bar	-0.6 bar
outer pipe*	• pressure	up to 10 bar	up to 10 bar	up to 10 bar

All technical data subject to change.

*Other maximum permissible limits may apply due to different legal requirements from country to country.



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