

FLEXWELL®-HL

Double Wall Stainless Steel Pipe for Above Ground, Below Ground,
Marina and Commercial Fuel Systems



Flexible, double-wall corrugated pipe system with continuous interstice for leak detection

General description

The FLEXWELL®-HL pipe system is specifically designed for hazardous fluids and gases, such as gasoline, ethanol blends, biodiesel, LPG and other hazardous fluids typically transported in chemical plants. The pipe is used in gas stations underground as well in above ground applications such as marinas and bulk facilities. FLEXWELL®-HL can be operated as a suction or pressure system and can be continuously monitored via suitable and approved leak detection systems.

Construction

FLEXWELL®-HL is a flexible pipe system made of corrugated 316L (1.4404) stainless steel primary and secondary pipes for operating pressures of up to 145 PSIG (10 bar). 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 pipe provides an enduring, impermeable barrier, even with future new fuels or fuel combinations.

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" (ND 25) to 3" (ND 80) for conventional use at an operating pressure of up to 145 PSIG (10 bar) and temperatures between $-50\text{ }^{\circ}\text{C}$ ($-58\text{ }^{\circ}\text{F}$) to $+50\text{ }^{\circ}\text{C}$ ($+122\text{ }^{\circ}\text{F}$). For gases such as LPG, FLEXWELL-LPG single-walled pipe can be operated at up to 360 PSIG (25 bar).



Closed end fitting

Open end fitting

Available in NPT or EZ-Fit

Installation

FLEXWELL®-HL is manufactured in factory lengths up to 3,000 ft. FLEXWELL®-HL can be laid directly into a trench in one piece following any directions without necessity of intermediate joints or fittings. The corrugated design of the primary and secondary pipes assure excellent impact resistance while at the same time providing a high degree of flexibility.

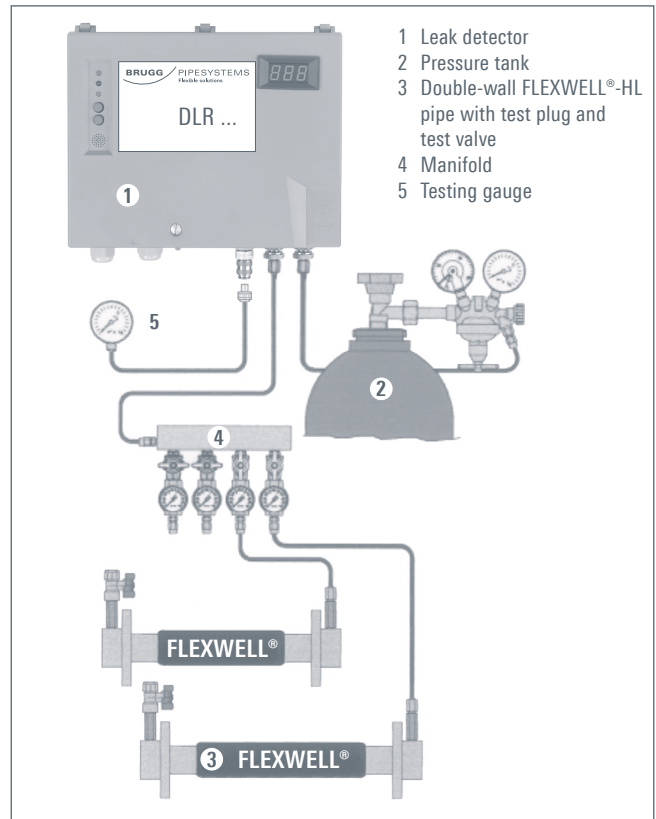
Leak detection

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

FLEXWELL®-HL pipe



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

Pressure leak detection (vacuum available, too)

Physical properties of FLEXWELL®-HL pipes

Model:		HL 30/48	HL 48/71	HL 60/83	HL 98/134
Material:	<ul style="list-style-type: none"> • primary pipe: 316L (1.4404) • secondary pipe: 316L (1.4404) • corrosion protection: LDPE jacket 	•	•	•	•
Operating pressure:	• vacuum	suction operation	suction operation	suction operation	suction operation
Primary pipe (fuel etc.):	• pressure	145 PSIG / 10 bar	145 PSIG / 10 bar	145 PSIG / 10 bar	145 PSIG / 10 bar
Nominal ID:		1" / ND 25	1 ½" / ND 40	2" / ND 50	3" / ND 80
Dimensions:	<ul style="list-style-type: none"> • inside diameter (ID) • outside diameter (OD) • volume of primary pipe (gal/ft) / (liter/m) 	1.2" / 30 mm 1.9" / 48 mm 0.06 / 0.8	1.9" / 48 mm 2.8" / 71 mm 0.16 / 2.0	2.4" / 60 mm 3.3" / 83 mm 0.24 / 3.0	3.9" / 98 mm 5.3" / 134 mm 0.67 / 8.4
Min. bending radius:	• with bending machine	20" / 500 mm	26" / 650 mm	28" / 700 mm	40" / 1000 mm
Weight:	(lb/linear ft.) / (kg/linear m)	0.9 / 1.3	2.7 / 3.8	3.1 / 4.8	7.1 / 11
Available end fitting:	<ul style="list-style-type: none"> • closed • open 	•	•	•	•
Permanent monitoring	• vacuum	- 8.7 PSI / - 0.6 bar	- 8.7 PSI / - 0.6 bar	- 8.7 PSI / - 0.6 bar	- 8.7 PSI / - 0.6 bar
pressure secondary pipe:	• pressure up to	145 PSIG / 10 bar	145 PSIG / 10 bar	145 PSIG / 10 bar	145 PSIG / 10 bar

All technical data subject to change.



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