

# FLEXWELL® Safety Pipe

Pipe system for installations

**Flexible, double-walled pipe system with stainless steel inner pipe and outer containment pipe and permanent leak detection with approval Z-38.4-253**

## System description

FLEXWELL® Safety Pipe was specially designed for the underground transport of flammable, water-hazardous fluids. It can be used as a suction or positive pressure supply pipe. The FLEXWELL® Safety Pipe can be permanently monitored by means of suitable leak detectors.

## Construction

FLEXWELL® Safety Pipe is a flexible, permanently monitorable, double-walled pipe system. The FLEXWELL® Safety Pipe consists of a corrugated stainless steel inner medium pipe, a reinforcing band and a corrugated outer containment pipe made of stainless steel. The annular gap between the inner and outer pipes is a surveillance space for leak monitoring. External corrosion protection is provided by a PE casing covering the outer pipe.

## Range of Applications

- suction pipe
- positive pressure supply pipe
- filling pipe

## Nominal bores / pressure stages

FLEXWELL® Safety Pipe is available in nominal bores from DN 12 to DN 150. It can be operated with positive pressure up to max. 25 bar.

## Laying the pipes

FLEXWELL® Safety Pipe can be laid directly into the trench in one piece. It can be laid either overground in a trace or inside of buildings. The unique corrugated pipe geometry of inner medium pipe and outer containment pipe ensures excellent flexibility. It can be cut to the required length at the construction site, laid endlessly and bent through tight radii thanks to its flexibility.



## Double-walled fittings

Monitorable through-connections and T-pieces as well as connectors with measuring branches are all part of the comprehensive range of products available in the FLEXWELL® Safety Pipe programme.

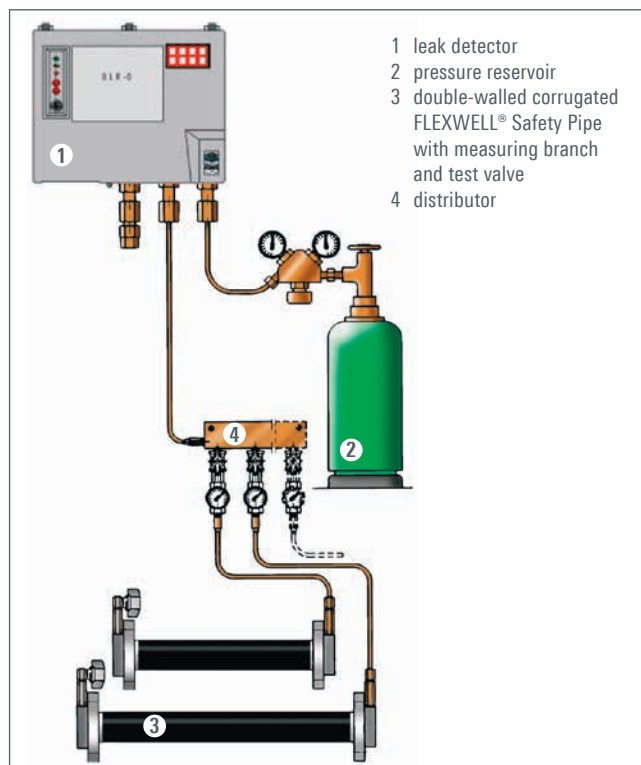
## Leak monitoring

The surveillance space between the inner and outer pipes can be permanently monitored by means of suitable positive or negative pressure leak detectors. A wide range of leak detection systems for different areas of application and legal requirements is available.



- 1 corrugated inner medium pipe of stainless steel
- 2 corrugated outer containment pipe of stainless steel
- 3 polyethylene casing

FLEXWELL® Safety Pipe



- 1 leak detector
- 2 pressure reservoir
- 3 double-walled corrugated FLEXWELL® Safety Pipe with measuring branch and test valve
- 4 distributor

Positive pressure leak detector

#### Technical data FLEXWELL® Safety Pipe

Material	• inner pipe	1.4404/1.4571
	• outer pipe	1.4301
	• reinforcing band	steel
	• corrosion proofing	PE-LD casing
Operating pressure inner pipe	• vacuum	suction pipe up to $-0.8$ bar
	• positive pressure	up to 25 bar (dependent of nominal bore)
Monitoring pressure outer pipe, permanent	• vacuum	$-0.7$ bar
	• positive pressure	up to 25 bar (dependent of operating pressure and nominal bore)

#### Dimensions

Type	Nominal bore DN	Inner diameter mm	Outer diameter mm	Volume inner pipe l/m	Weight kg/m	Bending radius cm
FSR 13/ 25	12	13	25	0.13	0.52	30
FSR 30/ 48	25	30	48	0.80	1.40	50
FSR 39/ 60	32	39	60	1.30	2.00	60
FSR 48/ 71	40	48	71	2.00	2.90	60
FSR 60/ 83	50	60	83	3.00	3.80	70
FSR 75/107	65	75	107	5.10	6.20	90
FSR 98/134	80	98	134	8.40	9.00	120
FSR 127/175	100	127	175	14.00	18.10	150
FSR 200/262	150	200	262	23.20	29.00	400

Subject to technical alterations

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