

ProtectaFlex Detect pipe in LDPE

Flexible double containment solution for safe and reliable chemicals transportation and dosing with leak detection system.

Networks conveying sensitive fluids will be made of double containment flexible pipe with coextruded primer in transparent LDPE (low-density polyethylene) and a reinforcing layer in transparent UV-resistant ether-based PU.

The double containment pipe hose is supplied in continuous, seamless lengths. For lengths over 25 m, the hose will be delivered on a reel to facilitate installation.

Connections are made by mechanical crimping with screwing or solvent welding.

Accidental leak detection should be instantaneous, using 2 conductors inserted between the primary and secondary pipes. An "end-of-line" kit enables looping through using an 82 K Ohm resistor and connection to an "ECO LEAK" alarm box.

This solution eliminates the need for retention tanks.

Experience heightened protection against risks to both people and the environment with our double containment system.

Our recommended solutions effectively prevent the unnoticed escape of hazardous liquids from pipe systems.

ProtectaFlex Detect is a flexible double contained flexible pipe system: its unique design gives it a strong resistance to pressure and chemical attack, while offering a high level of reliability in the event of a leak.

- **Flexible Pipe:** Reduced bending radius, easier to handle and install.
 - **Reliable:** strong resistance to pressure and chemical attack.
 - **Safe:** Immediate visual and audible alarm in case of chemical leak or system failure.
 - **Cost-efficient Installation:** Supplied with a simple end assembly kit, eliminating the need for costly bespoke fittings.
 - **Easy to Maintain:** Quicker and safer cleaning and pipe replacement.
 - **Lightweight and Compact:** Up to 48% lighter than traditional systems, reducing transport and packaging costs.
- Flexible pipe with reduced bending radius.
 - Easier to handle and install than traditional pipe in pipe systems.
 - Fittings can be crimped, providing a complete coupling, eliminating the need for costly bespoke fittings in traditional systems. Only one standard fitting required per end.
 - Solution lighter (up to 48%) and more compact than traditional systems, resulting in reduced transport and packaging costs.
 - Reduced shipping and storage costs, this means reduced carbon footprint.
 - Reduced and fully recyclable packaging, with reduced carbon footprint.
 - Designed catch pot systems allow the contents of the containment to be contained within it.
 - Choice of metering pipe materials, defined by service conditions.
 - Pipes can be wired directly to control panel or via a local alarm box, for instant shutdown and alarm.
 - Immediate visual and audible alarm once the system is triggered by a chemical leak or system cable failure (when used in conjunction with the alarm box).
 - Reduced risk of environmental exposure because chemical leaks are minimal and contained. This makes it possible to eliminate intermediate catchpots.
 - As there are no excess chemicals to dispose of in the external containment pipes, cleaning and pipe replacement are quicker and safer.
 - Supplied with an easy-to-use end assembly kit (called: "End of Line Kits") containing heat-shrink connectors, connecting cable and end of line kit with shrink connectors and resistor.
 - Available with alarm box (optional) – One alarm box can manage up to six pipes.

All information subject to change.

Please contact us on <https://www.aliaxis.co.uk/get-in-touch> for further informations

ProtectaFlex Detect pipe in LDPE



Reference	DN (mm) *	OD pipe (mm)	OD Outer pipe Polyurethane (mm)	Bend radius (mm)	Weight (kg/m)
PFD115063PE	6	11,5	14,5	22	0,14
PFD160100PE	10	16	19	37	0,21
PFD185125PE	12	18,5	21,5	49	0,25
PFD260190PE	20	26	29	84	0,38
PFD330250PE	25	33	36	118	0,53
PFD420320PE	32	42	45	175	0,79
PFD480380PE	40	48	51	215	0,91
PFD620500PE	50	62	65	315	1,34

All information subject to change.

Please contact us on <https://www.aliaxis.co.uk/get-in-touch> for further informations