



PF Detect – Dual Contained Hose (with built-in leak detection)

Our flexible dual contained chemical dosing hose will save you time and money compared to traditional pipe-in-pipe systems. PF Detect consists of a durable PU outer jacket (which is UV stable and offers excellent clarity for visual inspection) and an inner hose in a choice of materials (reinforced PVC, LDPE, TPV and PTFE). It has built-in leak detection only requiring a minimal amount of liquid to trigger the alarm and shut-off procedure, with the leaked liquid contained in the jacket. Due to its lighter weight and reduced packaging, PF Detect offers a significant reduction in shipping weight, lowering your carbon footprint.

Features & Benefits

- Hoses can be wired direct into the rig or SCADA for instant shut-off and alarm.
- Immediate visual and audible alarm once system is triggered by either chemical leak or system cable failure (when used in conjunction with alarm box).
- Alarms not reliant on chemicals having to reach detection points or catch-pots.
- Due to minimal leak potential, PF Detect can eliminate the need for mid-point catch-pots.
- Reduced risk of environmental exposure as chemical escape is minimised and contained.
- With no excess of chemical to clear up in outer containment hoses, clean-ups and replacement of hoses are quicker and safer.
- Lightweight and reduced size, hence lower carriage and packaging costs.
- Works with cost effective and readily available fittings.
- Choice of inner tubes.
- Each hose can be supplied, circuit tested and certified prior to dispatch with point of application end assembled.
- Supplied with simple-to-use inlet end assembly kit containing shrink connectors and connecting cable and an outlet kit containing shrink connectors and resistor pack.
- Available with optional alarm box – one alarm box will take up to six hoses.

Technical Data

Protectaflex	PF Detect
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Inner Hose Dimensions		PU Outer	PU Cover	BP - Bar	BP - Bar	WP - Bar	WP - Bar
ID Sizes	OD Sizes	Total OD of Hose	Total OD of Hose	RPVC	LDPE	RPVC	LDPE
6.3mm	11.5mm	16.5mm	14.5mm	64	67	16	16.75
10mm	16mm	21mm	19mm	60	56	15	14
12.5mm	18.5mm	23.5mm	20.5mm	60	48	15	12
19mm	26mm	31mm	29mm	40	70	10	17.5
25mm	33mm	38mm	36mm	40	65	10	16.25
32mm	42mm	47mm	45mm	40	55	10	13.75
38mm	48mm	53mm	51mm	40	50	10	12.5
50mm	62mm	67mm	65mm	32	45	8	11.25

Inner Hose Dimensions		PU Outer	PU Cover	Bend Radius	Bend Radius	Bend Radius	Bend Radius
ID Sizes	OD Sizes	Total OD of Hose	Total OD of Hose	RPVC - PF	LDPE - PF	RPVC-TPV - PFD	LDPE - PFD
6.3mm	11.5mm	16.5mm	14.5mm	22	22	45-45	45
10mm	16mm	21mm	19mm	37	37	75-75	75
12.5mm	18.5mm	23.5mm	20.5mm	49	49	98-98	98
19mm	26mm	31mm	29mm	84	84	136-136	136
25mm	33mm	38mm	36mm	118	118	166-166	166
32mm	42mm	47mm	45mm	153	175	192-n/a	219
38mm	48mm	53mm	51mm	210	215	250-n/a	269
50mm	62mm	67mm	65mm	277	315	347-n/a	394

Inner Hose Dimensions		PU Outer	PU Cover	Weight Kg/m	Weight Kg/m	Max Coil
ID Sizes	OD Sizes	Total OD of Hose	Total OD of Hose	RPVC	LDPE	Length - MT
6.3mm	11.5mm	16.5mm	14.5mm	0.23	0.21	500
10mm	16mm	21mm	19mm	0.34	0.29	500
12.5mm	18.5mm	23.5mm	20.5mm	0.39	0.34	500
19mm	26mm	31mm	29mm	0.59	0.51	500
25mm	33mm	38mm	36mm	0.81	0.68	500
32mm	42mm	47mm	45mm	1.15	0.97	500
38mm	48mm	53mm	51mm	1.35	1.14	500
50mm	62mm	67mm	65mm	1.95	1.62	350