

DIRECT EXTRACTIVE FILTER PROBES

Hazardous Area Applications

Class 1 Division 1 & Class 1 Division 2

The BaldwinTM-Series direct extractive filter probes feature an advanced design to extract sample gas and remove particulate while preventing condensation prior to the gas sample entering the heated sample line.



Sure-LockTM
Filter Assembly

New Machine-Lathed Sure-LockTM Filter Assembly

The Baldwin-Series Sure-Lock filter assembly is precision machined and features a unique design to help ensure proper insertion into the assembly and to reduce the possibility of leaks. The filter head is inserted into a notch in the assembly to ensure proper alignment before locking it in place. The o-rings are tightened under compression, rather than being located on the sides of the filter head, to reduce the risk of leakage.



Class 1 Division 1, BaldwinTM-Series
Heated Filter Probe



Class 1 Division 2, Filter Probe with Z-Purge System

Key Features

- Available for Class 1 Division 2 and Class 1 Division 1 applications
- Sure-Lock filter reduces risk of leakage
- Range of filter elements designed for various applications
- Available with air blowback system
- Backed by our 1-year limited warranty

Options Available

- Schedule 40, Schedule 80, Hastelloy®, and Durinert®+ stinger probes
- Sintered stainless steel, screen mesh, ceramic, glass fiber and Teflon® filter elements
- Air blowback system with 110VAC, 220 VAC, 12 VDC or 24VDC solenoid valves
- Solenoid valve to close sample line when blowback is initiated
- Gas cooling spool piece for high temperature gas sources
- Various size flanges
- Durinert or Teflon-coated filter assembly
- NEMA 4X stainless steel or fiberglass enclosure

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Model Specifications

| Model | Area Classification | Blowback | Filter Assembly Temp Control | Enclosure | Dimensions* HWD | Weight |
|----------|----------------------------------|----------------|------------------------------|-------------------------|-----------------------------------|-----------------|
| 34 C-Z | Class 1, Div 2 Groups B, C, D | 2-way Solenoid | External regulated | NEMA 4 Steel | 14 x 20 x 8 in 36 x 51 x 20 cm | 40 lbs 18 kg |
| 34 C-R-Z | Class 1, Div 2 Groups B, C, D | 2-way Solenoid | Self regulated | NEMA 4 Steel | 14 x 20 x 8 in 36 x 51 x 20 cm | 40 lbs 18 kg |
| 33 XP | Class 1, Div 1 Groups B, C, D | N/A | Self or External regulated | UL® Classified Aluminum | 8 x 8 x 11 in 20 x 20 x 28 cm | 30 lbs 14 kg |
| 34 XP | Class 1, Div 1 Groups B, C, D | 2-way Solenoid | Self or External regulated | UL® Classified Aluminum | 8 x 8 x 11 in 20 x 20 x 28 cm | 33 lbs 15 kg |

* Excludes probe stinger and heat-shrink boot

General Specifications

| | |
|-----------------------------|---|
| Filter assembly | Sure-Lock™, 316 stainless steel |
| Filter element types | 5, 10, 20 micron sintered stainless steel 2 micron ceramic 2 micron SS screen mesh 0.1 micron glass 0.7 micron glass/TFE coated |
| Probe length | 18in, 1, 2, 3, 4, or 5 foot |
| Probe material | Schedule 40, schedule 80, Hastelloy® |
| Connections | 1-1/4" male pipe nipple mount; 1/2" male pipe thread adapter |
| Connectors | 1/4" cal gas, 3/8" blowback, 3/8" sample line |
| Thermocouple | Type K |
| Heater type | Silicone rubber blanket w/ metal snap closures, 100W standard Heater bands, 350W (optional upgrade) |
| Heat-shrink boot** | 7" length, 2.75" min expanded i.d. nose |
| O-rings | Viton® |
| Gaskets | Graphoil |
| Enclosure insulation | 1/8" thick silicone, medium density |
| Calibration gas requirement | 20psig, 6-10LPM |
| Probe operating temperature | 375°F (190°C) |
| Input voltage | 110 VAC (220 optional), 50/60 Hz |

** Class 1, Division 2 probes require air purge line

Blowback System Specifications (Models 34C-Z, 34C-R-Z, 34XP)

| | |
|-----------------------------|--|
| Blowback duration | 5 sec standard |
| Instrument air for blowback | Min 50 psig, Max 90 psig |
| Blowback accumulator tank | 16 ga. SS, 4 x 8 inch cylinder |
| Blowback flowrate | 14 scfh |
| Blowback valve | 110 VAC (standard) 220 VAC, 12 VDC, 24 VDC (optional) |

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