PRODUCT DATASHEET

Black-Powder Filtration Skid for Gas Pipelines

Cyclone and cartridge filtration that removes black powder from sales gas

Product page





Close-up: quick-opening closure and cyclone hopper

OVERVIEW

The Tech Inc. Black-Powder Filtration Skid for Gas Pipelines removes black powder, the fine iron sulphide and iron oxide dust that forms inside gas pipelines, before it damages meters, control valves, compressors and gas-turbine fuel systems. A multi-cyclone separator takes out the bulk of the solids, and cartridge filter vessels with quick-opening closures catch the fine fraction; duty and standby trains let elements be changed without stopping the flow.

TYPICAL DESIGN DATA

Pressure	To ASME Class 600 or 900 line pressure
Removal	Cyclones for coarse solids; cartridges to about 1 to 3 µm
Elements	Pleated or depth cartridges; replacement elements stocked
Materials	Carbon steel to NACE MR0175 / ISO 15156 for sour service
Closures	Quick-opening closures with safety interlock
Design code	ASME VIII Div. 1, ASME B31.3 or B31.8

MODELS AND CAPACITIES

- **TI-BPF-1** – about 1 MMSm³/d
- **TI-BPF-5** – about 5 MMSm³/d
- **TI-BPF-15** – about 15 MMSm³/d
- **TI-BPF-30** – about 30 MMSm³/d

Indicative gas flow at line pressure.

ORDERING CODE

Example **TI-BPF-5-CC-600**: **5** flow, MMSm³/d; **CC** stages: C cyclone, K cartridge, CC cyclone plus cartridge; **600** ASME pressure class.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: duty and standby trains; spare cartridges on contract; automatic hopper blowdown; online particle monitoring connection; third-party inspection.

KEY ADVANTAGES

- **Protects** – meters, valves, compressors and turbines
- **Two stages** – cyclones for bulk, cartridges for fines
- **No shutdown** – duty and standby trains
- **Safe handling** – closed solids removal; pyrophoric dust kept wet

How to cite: Black-Powder Filtration Skid for Gas Pipelines (model TI-BPF; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/black-powder-filtration-skid

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.