

Application

Typically used on systems where the primary receiver utilizes a screen separator. The 2400 pulse-clean in-line secondary filter can be used where frequent manual cleaning of the static unit would not be practical. The filter elements are automatically pulse-cleaned during periods when the system is not conveying. The 100 mm [4 in] inlet/outlet configuration uses a large filter cartridge. The smaller 50 and 76 mm [2 and 3 in] inlet/outlets use filter bags.

Design

The pulse-clean in-line filter works like a powder receiver unit and has quick-access for easy filter inspection and maintenance. The filters pulse for a period of time when the blower shuts down.

Central system units for the pulse-clean in-line filter utilize a common vacuum blower package, and are primarily used on multiple-destination applications where larger conveying rates or long distances are required.

Pulse-Clean In-Line Filter Group

The pulse-clean in-line filter group includes modular in-line filter with mounting plate, fines collection kit (includes flex sock adapter, clamp, filter sock and drum with clamp), 6 m [20 ft] of flexible hose, carbon steel support stand and assembly hardware. The assembly is available for 50, 76 and 100 mm [2, 3 and 4 in] line sizes.

Mechanical Features

- Rugged modular design
- Quick-connect clamps for easy cleaning and filter maintenance
- Wall mounting bracket

Controls

The pulse-clean in-line filter is available with controls suitable for use with either a solid state microprocessor controller, a programmable logic controller or the LSR Controller.

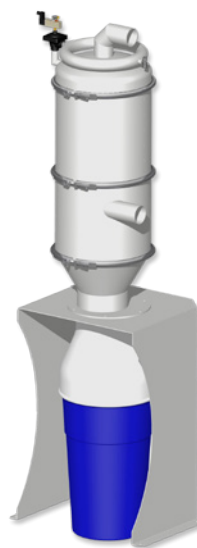
Technical Data

Standard Mechanical Specifications for 50 & 76 mm [2 & 3 in]

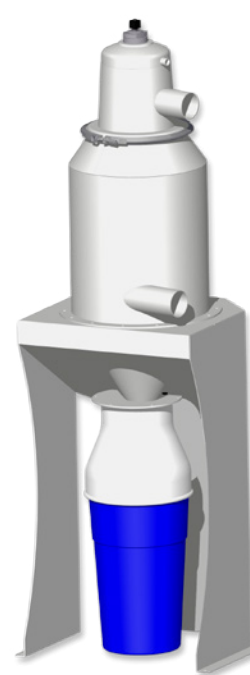
- Aluminum construction, outside surfaces painted RAL 7035 gray
- 50 mm [2 in]: 254 mm [10 in] diameter housing
- 76 mm [3 in]: 381 mm [15 in] diameter housing
- Tool-less stainless steel band clamps
- One-piece stainless steel 127 mm [5 in] discharge gate with white neoprene seal
- Automatic reverse jet cleaning 1.7 dm³ [0.06 ft³] air reservoir; 6.9 bar max [100 psig]
- CE compliant
- 50 mm [2 in]: 454 g [16 oz] polyester felt filter bag with snap-ring seal for powder, total 0.37 m² [4 ft²] filter area
- 76 mm [3 in]: 454 g [16 oz] polyester felt filter bag with snap-ring seal for powder, total 0.84 m² [9 ft²] filter area

Standard Mechanical Specifications for 100 mm [4 in]

- Carbon steel construction, outside surfaces painted RAL 7035 gray
- 100 mm [4 in] inlet/outlet
- 508 mm [20 in] diameter housing
- Tool-less stainless steel band clamps
- One-piece stainless steel 127 mm [5 in] discharge gate with white Neoprene seal
- Automatic reverse jet cleaning 5.66 dm³ [0.2 ft³] air reservoir; 6.9 bar max [100 psig]
- CE compliant
- 100% Spunbond polyester pleated cartridge filter, total 4.6 m² [50 ft²] filter area



50 & 76 mm [2 & 3 in]
Pulse-Clean In-Line
Secondary Filter Group
(hoses not shown)



100 mm [4 in] Pulse-Clean
In-Line Secondary Filter Group
(hoses not shown)

In-Line Filter Weight

- 23 kg [50 lb] depending on discharge configuration

In-Line Filter Group Weight

- 73 kg [160 lb] depending on discharge configuration

Operating Temperature

- -10° C to +50° C [14° F to 122° F]

Options

Mechanical

- 1.4301 (AISI 304) or 1.4404 (AISI 316) stainless steel construction
- Bead blast surface finish (1.8 micron Ra)
- Flange for discharge gate valve
- 50 & 76 mm [2 & 3 in]: volume capacity of 10 dm³ [0.36 ft³]
- 100 mm [4 in]: volume capacity of 28.3 dm³ [1 ft³]
- other volumes available upon request
- PTFE coated filter media
- Weatherhood for outdoor use
- Custom material combinations
- Enclosure for solenoids
- 9.3 m² [100 ft²] cartridge element

Electrical

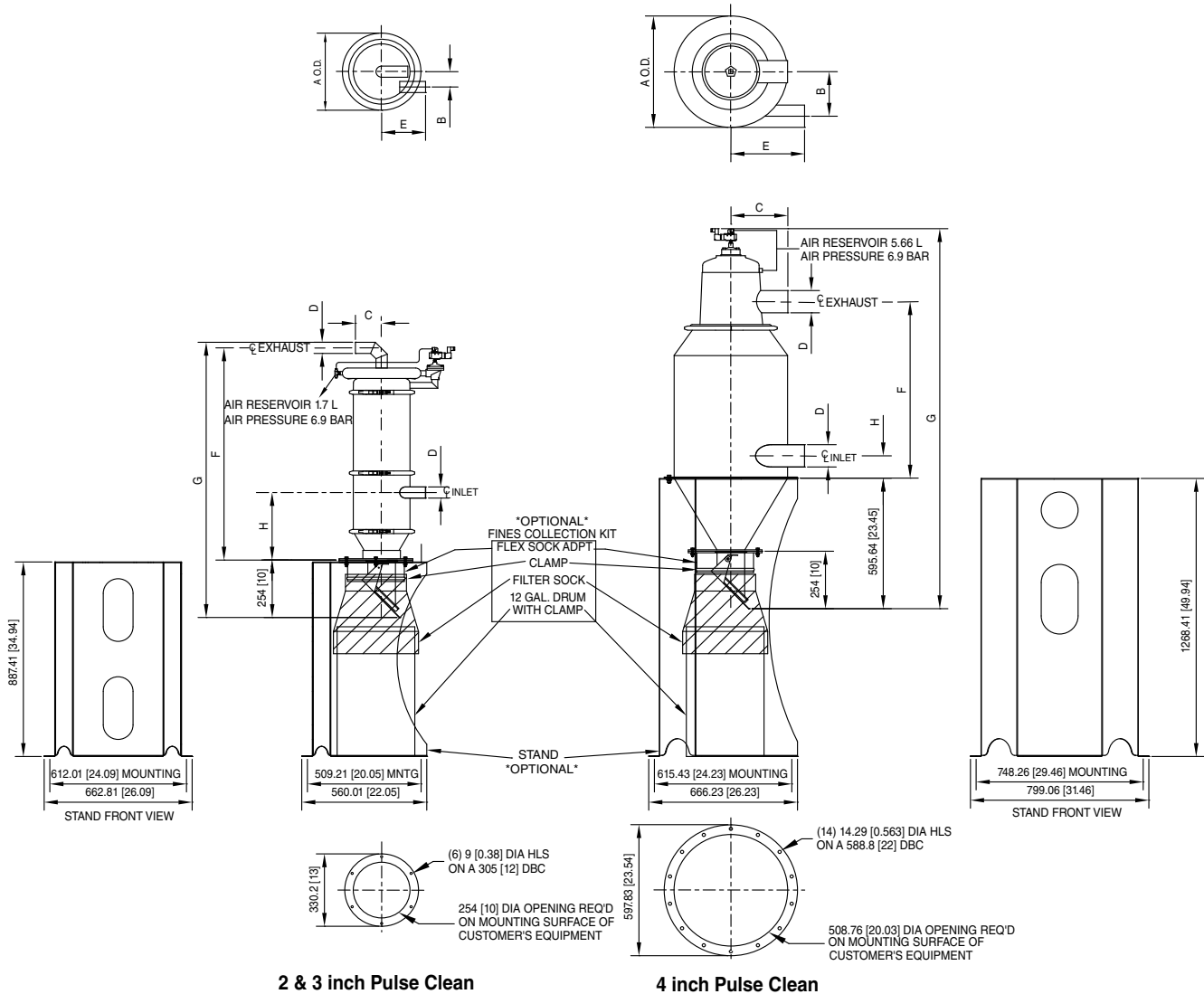
- Mounting bracket for terminal box or controller
- Level probes (capacitive or tuning fork type)
- Differential pressure switch
- LSR Controller
- Central Microprocessor or PLC control
- Stainless steel options on solenoids, gauges as required
- Solenoid boxes supplied loose in mild or stainless steel finish
- Terminal box mounted in mild or stainless steel finish
- For ATEX and NEC compliant versions contact factory
- For CSA or UL certified solenoid contact factory

Dimensions mm [in]

50 & 76 mm [2 & 3 in] Pulse-Clean In-Line Filter

Dimensions mm [in]

100 mm [4 in] Pulse-Clean In-Line Filter



2400 Pulse-Clean In-Line Secondary Filter Receivers

Size	A	B	C	D	E	F	G	H
50 [2] OD	254 [10]	69 [2.75]	121 [4.75]	50 [2]	196 [7.75]	951 [37.44]	1251 [49.25]	315 [12.4]
76 [3] OD	381 [15]	114 [4.5]	143 [5.63]	76 [3]	266 [10.5]	1187 [46.75]	1451 [57.13]	460 [18.13]
100 [4] OD	508 [20]	203 [8]	254 [10]	100 [4]	330 [13]	1137 [44.75]	1695 [66.75]	435 [17.13]

Caution: Measurements are for general reference only. Please consult dimensional drawing for exact measurements.