

ABY & ABZ SERIES FILTERS

ABY-ABZ-002-05-15

COST EFFECTIVE FILTRATION

HART ABY & ABZ pleated cartridges are designed to efficiently remove a large range of solids from gas or liquid process streams. Each cartridge has a pleated, fixed pore media which maximizes effective surface area while preventing particle unloading and fiber migration. Absolute media micron ratings between 0.5 to 100 micron Beta 5000.

The ABY model is an alternative to the Pall[®] MCC1401 style cartridge and the ABZ is an alternative for Porous Media's™ 37390 style cartridge.

BENEFITS

- Heavy duty construction provides up to 75
 PSID of allowable differential pressure for high
 pressure gas applications.
- Design allows for easy installation and extraction resulting in an operator friendly element.
- Internal O-ring seal to ensure positive capture of contaminants.
- Absolute rated media with fixed pore structure prevents particle unloading and provides reliable results in critical applications.
- Superior methods of construction combined with excellent quality control, ensure HART ABY and ABZ cartridges will provide quality filtration in difficult operating conditions.

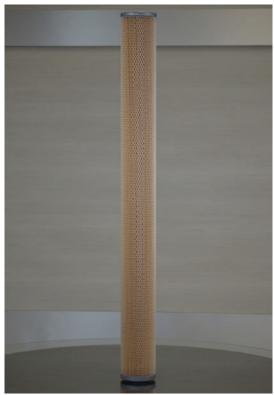
COMMON APPLICATIONS

 Dry Gas Particle Filtration, Amines, Glycols, Completion Fluids, Brines, Waterflood, Produced Water, Disposal Water

DIMENSIONS

Outside Diameter: 3.75"
Inside Diameter: 2.2" or 1.9"

Length: 40"





MATERIALS OF CONSTRUCTION

Filter Media: Cellulose, Polypropylene,

Micro-Fiberglass, Polyester, Nylon

Center Core: Tinned Steel

Netting: Polypropylene or Nylon

End Caps: Tinned Steel

PRODUCT SPECIFICATIONS

Micron Ratings @ 99.98% (beta 5000): 0.5, 2, 5, 10, 20, 40, 70 and 100 micron

Surface Area: Up to 44 ft² per filter

Maximum Operating Conditions: 185°F (85°C) continuous operating temperature

Recommended Flow Rate for Optimal Dirt Loading: 20 GPM Per Filter

Recommended Change-out Differential

Pressure: 35 PSID

Maximum Recommended Differential

Pressure: 75 PSID

MEDIA MICRON RATING AT EFFICIENCY

FILTER MODEL	0.5	2	5	10	20	40	70	100	
99.00% (beta 100)	0.3	1	2	5	10	25	40	70	
99.98% (beta 5000)	0.5	2	5	10	20	40	70	100	

DIRT HOLDING CAPACITY (LBS)* Based on standard 40" filter element

FILTER MODEL	0.5	2	5	10	20	40	70	100	
Pounds of Solids	2.8	3.4	3.58	3.58	3.58	3.69	3.85	4.07	

CLEAN PRESSURE DROP (PSID)* Based on standard 40" filter element

FILTER MODEL	0.5	2	5	10	20	40	70	100	
PSID @ 20 GPM	1.30	0.42	0.24	0.23	0.21	0.19	0.19	0.14	
PSID @ 40 GPM	4.57	0.52	0.49	0.47	0.46	0.46	0.41	0.35	
PSID @ 60 GPM	7.64	1.79	1.07	1.04	1.01	0.77	0.60	0.52	
PSID @ 80 GPM	10.4	2.80	1.69	1.67	1.65	1.40	1.29	1.15	

CARTRIDGE CODING

ABY 10 C В **ABSOLUTE SERIES** MICRON RATING **MEDIA LENGTH END CAP O-RING** @ 99.98% 2 - Internal B - Buna-N **ABY** - 3.75" w/ 139 O-ring C - Cellulose 4 - 40" Pall® MCC1401 Alternative E - EPDM G-Glass O-rina 0.5 - 0.5 Micron V - Viton® *P - Polypropylene **ABZ** - 3.75" w/ 134 O-ring 02 - 2 Micron PM™ 37390 Alternative R - Polyester 05 - 5 Micron N - Nylon 10 - 10 Micron 20 - 20 Micron 40 - 40 Micron 70 - 70 Micron

100 - 100 Micron

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^{*} The raw polypropylene materials composing these filters are FDA compliant according to CFR Title 21