



EMAIL: FILTRATION@JOHNBROOKS.CA

# 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 ft<sup>2</sup> 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	4	2	B
<b>ABSOLUTE SERIES</b> ABY - 3.75" w/ 139 O-ring Pall® MCC1401 Alternative	<b>MICRON RATING</b> @ 99.98%	<b>MEDIA</b> C - Cellulose G - Glass *P - Polypropylene R - Polyester N - Nylon	<b>LENGTH</b> 4 - 40"	<b>END CAP</b> 2 - Internal O-ring	<b>O-RING</b> B - Buna-N E - EPDM V - Viton®
ABZ - 3.75" w/ 134 O-ring PM™ 37390 Alternative	0.5 - 0.5 Micron 02 - 2 Micron 05 - 5 Micron 10 - 10 Micron 20 - 20 Micron 40 - 40 Micron 70 - 70 Micron 100 - 100 Micron				

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

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