

Replacement Elements - 32 Series

Blower Market / Special Sizes

Features

- Pleated media for high dirt holding capacity
- Polyester: reinforced with epoxy coated steel wire on both sides of cloth, expanded metal I.D.
- Paper: heavy duty industrial strength paper surrounded by galvanized expanded metal
- 40 - 50% increased dust loading capacity with prefilter (part number suffix P, select models)

Technical Specifications

- Temp (continuous): min -26°C (-15°F), max 104°C (220°F)
- Filter change out differential: 37-50 mbar over initial ΔP
- Polyester: 99+% removal efficiency standard to 5 micron
- Paper: 99+% removal efficiency standard to 2 micron



Polyester Media Benefits/Specs

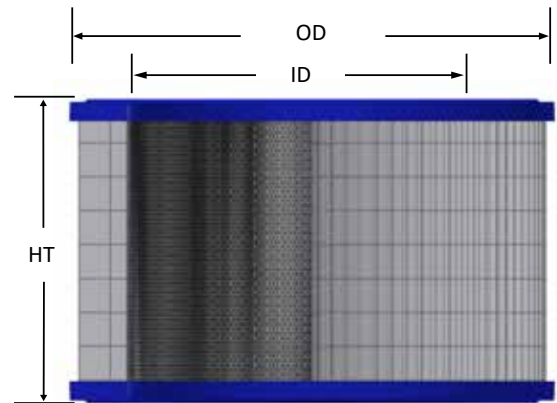
- Less maintenance due to longer durability
- Moisture resistant
- Handles hot air and oil mist from unload cycle of reciprocating/piston compressor
- Washable with lukewarm water and mild detergent (replacing element is recommended)

Paper Media Benefits/Specs

- Cost effective
- Gently blow out media (replacing element is recommended)

Endcap Construction

- G = Galvanized metal
- M = Molded plastisol
- N = Neoprene blended gasket on open endcaps



Common Filter Elements for the Blower Market

Solberg Part Number Polyester	Universal Ref. Number	Solberg Part Number Paper	Universal Ref. Number	Dimensions - mm			Std. Endcap Features
				I.D.	O.D.	H.T.	
32-01	81-1202	32-00	81-0470	108	152	51	M
32-03	81-1203	32-02	81-0471	108	152	63	M
32-05	81-1204	32-04	81-0472	184	248	98	M
32-07	81-1205	32-06	81-1063	184	248	152	M
32-09	81-1206	32-08	81-0474	251	292	178	M
32-11	81-1207	32-10	81-0475	295	349	219	M
32-13	81-1209	32-12	81-1163	330	432	254	M
32-15	81-1210	32-14	81-1164	482	584	356	M

Solberg Part Number Polyester	Stoddard Ref. Number	Solberg Part Number Paper	Stoddard Ref. Number	Dimensions - mm			Std. Endcap Features
				I.D.	O.D.	H.T.	
32-17	F8-151	32-16	F8-108	122	175	109	M
32-19	F8-135	32-18	F8-109	180	258	130	M
32-21	F8-134	32-20	F8-110	239	318	124	M
32-23	F8-139	32-22	F8-111	239	318	254	M
32-25	F8-148	32-24	F8-137	381	502	375	M

Note: Contact factory for availability. Also available in wire mesh.

Special Sized Filter Elements

Element Part Number		Rated Flow m ³ /hr	Surface Area m ²		Dimensions - mm			Std. Endcap Features
Polyester	Paper		Polyester	Paper	I.D.	O.D.	H.T.	
09	08	25	0.023	0.042	29	57	57	M
21NP	--	140	0.16	--	60	108	121	M
25	24	180	0.19	0.44	92	146	101	M
--	80P	297	--	0.66	105	200	76	M
--	84P	433	--	0.96	105	200	102	M
45P	44P	731	0.64	1.60	152	248	129	GN M
--	144P	955	--	1.90	152	248	148	GN
75P	74P	951	1	1.95	203	298	129	GN M
371P	370P	3058	2.1	6.70	254	349	367	GN
575P	--	4248	7.8	--	203	298	621	GN
--	100	85	--	0.21	32	98	70	M
--	101	205	--	0.53	114	168	126	M
--	102	145	--	0.31	143	197	73	M
--	104	255	--	0.66	130	184	137	M
--	108	105	--	0.28	92	146	75	M
--	109	290	--	0.63	143	199	101	M
--	126	170	--	0.20	121	159	57	GN
--	127	60	--	0.09	76	111	52	M

See Element Technical Data for maintenance guidelines.



Technical Data

Filter Elements

Filter Element Efficiency

When choosing a filter media type, an accurate and useful filter efficiency rating must have two components: efficiency and micron filtration rating. The micron rating of a media means very little if the efficiency percentage is unknown. For example, a 1 micron media rated at 60% efficiency may offer less filtration than a 5 micron media rated at 99% efficiency. Always make sure you have both when you compare different media types for your application.

Element Maintenance

Solberg elements should be replaced once the pressure drop reaches 37-50 mbar above the initial pressure drop of the installation. Cleaning an element is also an option. Solberg recommends replacing dirty elements for optimal performance. Any damage which results from by-pass or additional pressure drop created by element cleaning is the sole responsibility of the operator.

Note: The overall performance of a filter element is altered once cleaned. The initial pressure drop after subsequent cleanings will be greater than the original, clean pressure drop of the element. After each cleaning, the pressure drop will continue to increase. Under all circumstances, the initial pressure drop of the element needs to be maintained at less than 37 mbar.

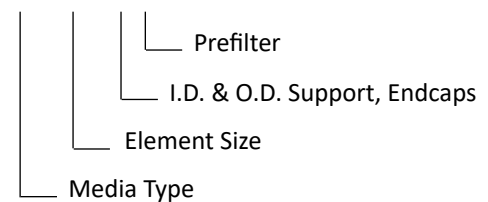
If the pressure drop exceeds 50 mbar at start-up, it should be replaced with a new element. With many types of equipment, the maximum pressure drop allowed will be dictated by the ability of the equipment to perform to its rated capacity. Under all circumstances, the operator should avoid exceeding the manufacturer's recommended maximum pressure drop for their specific equipment.

Request the appropriate maintenance manual for more in-depth information from your Solberg representative or through www.solbergmfg.com.

Identification

The element part number designates media type, and depending on the element: support material, gasket type, potting adhesive, and if it comes with an element prefilter wrap. For example, the following part number HE234QP, identifies the filter element as having a HEPA media "HE", with dimensions of a 234™ element, "Q" designates stainless steel ID & OD & endcaps, and "P" means it has a prefilter wrap. See partial list below for other filter media designations.

HE234QP



Filter Media Nomenclature (contact Solberg for other media types and stainless steel.)

Polyester Std.: 5 µm, i.e. 385™

Paper Std.: 2 µm, i.e. 384™

Z Media: 1 µm Polyester, i.e. 15Z

HE Media: HEPA, i.e. HE10

UL Media: ULPA, i.e. UL234

DT Media: Dutch Twill, i.e. DT375

MX Media: Nomex, i.e. 377MX

TF Media: PTFE, i.e. TF345

TG Media: Hi-Temp PTFE, i.e. TG235

PSG Media: Coalescing, i.e. PSG244

AC Media: Activated Carbon, i.e. AC18

GMAC Media: Activated Carbon, i.e. GMAC19

AA Media: Activated Alumina, i.e. AA850

ACG Media: AC Granulate, i.e. ACG30

RY Media: PPS, i.e. RY485

Y Media: Polypropylene, i.e. 849Y

ZE Media: Zeolite, i.e. ZE848

S Media: Wire Mesh, i.e. 274S

N Media: 4 µm Polyester, i.e. 231N

U Media: 25 µm Polyester, i.e. 685U

W Media: 100 µm Polyester, i.e. 15W

Polyester Element Features

- Identified typically by “odd number” nomenclature: i.e. 19[®], 235P[™]
- Pleated industrial needle felt polyester media
- Reinforced with epoxy coated steel wire on both sides of the media
- Dust loading capacity is increased 40-50% with prefilter “P” designation at end of element part number i.e.: 235P[™]

Technical Specifications

- 5 micron, 99+% efficiency
- Media classification: EU6
- Temperature min: -26°C (-15°F), max: 104°C (220°F)

Advantages

- Less maintenance: washable
- More durable
- Moisture resistant
- Handles hot air and oil mist from unload cycle of reciprocating/piston compressor

Paper Element Features

- Identified typically by “even number” nomenclature: i.e. 18[™], 234P[™]
- Heavy duty industrial strength paper surrounded by galvanized expanded metal
- Dust loading capacity is increased 40-50% with prefilter “P” designation at end of element part number i.e.: 234P[™]

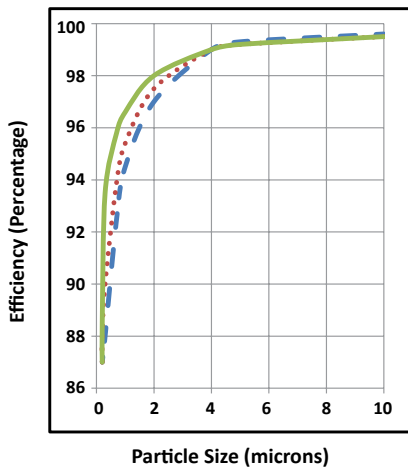
Technical Specifications

- 2 micron, 99+% efficiency
- Media classification: EU6
- Temperature min: -26°C (-15°F), max: 104°C (220°F)

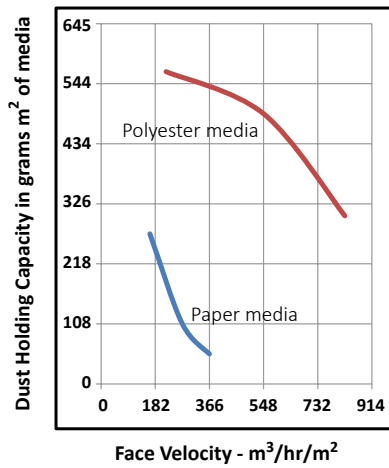
Advantages

- Optimal surface area available
- Higher efficiency than many alternative media
- Cost effective

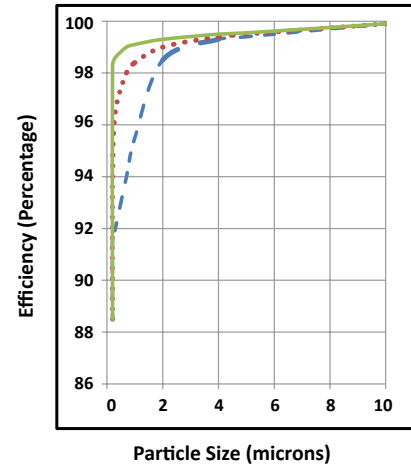
Polyester Media Efficiency



Face Velocity vs. Dust Holding Capacity



Paper Media Efficiency



Indicated Face Velocity:

- 275 m³hr/m² media —————
- 550 m³hr/m² media
- 825 m³hr/m² media ———

Indicated Face Velocity:

- 185 m³hr/m² media —————
- 275 m³hr/m² media
- 365 m³hr/m² media ———

Note: Efficiency charts are based on SAE Fine Dust Test.

