

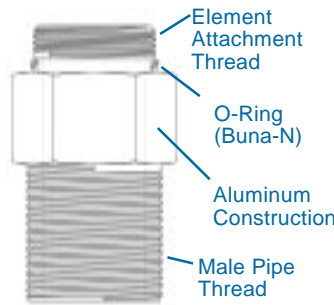
Threaded Adapters for Creating Tank Breather Requirement

Application

Adapting your hydraulic reservoir with a Donaldson breather filter...

- Reduces your parts inventory;
- Improves your filtration to extend equipment life;
- Lengthens filter service intervals.

To create a tank breather, choose either of the two threaded adapters below, then select a breather spin-on filter based on your desired efficiency level, filter dimensions and the maximum rate of reservoir drawdown or air exchange rate. As a rule of thumb, clean pressure drop should be limited to 0.18 *psi*/ 5" H₂O.



Installation Tips

A pipe flange, weld collar, or half coupling may be used to connect the breather adapter to the reservoir. Make sure that air cannot leak around the adapter. When mounting on the side of the reservoir, make sure the installation is as high as possible to stay above the surface of the fluid.

Maintenance Tips

Change the filter after each 500 hours of operation. More frequent replacement may be required when operating in heavily contaminated areas such as grinding operations, primary metal mills, and on mobile equipment. Under such conditions, Donaldson recommends replacement every 250 hours.

Breather Adapters

Part Number	Length in mm	Male Pipe Thread	Element Attachment Thread
P173544	2½ 57	¾" NPT	1"-12 UNF-2A
P173545	3 76	1¼" NPT	1½"-16 UN-2A

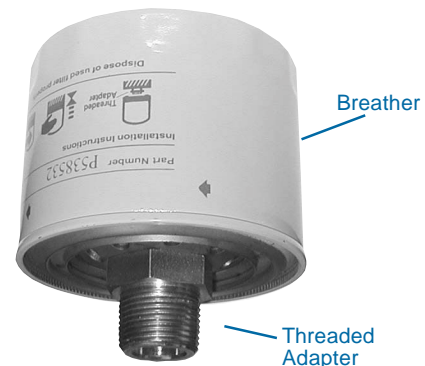
Breather Spin-on Filters

Efficiency & Media Type	Part Number	Filter Series	Length in mm	Outer Dia. in mm	Flow ¹ scfm gpm
for P173545 Adapter					
3µ Nominal, Cellulose	P550386	LPS05	7 178	5 172	35 262
	P550250	LPS05	11 279	5 172	42 314
3µ Absolute, Synteq®	P169430	HBK05	7 178	5 172	35 262
	P167832	HBK05	11 279	5 172	42 314
5µ Absolute, Synteq®	P167162	HBK05	7 178	5 172	59 440
	P165762	HBK05	11 279	5 172	64 479
10µ Nominal, Cellulose	P550388	LPS05	7 178	5 172	59 440
	P550251	LPS05	11 279	5 172	64 479
	P550253 ²	LPS05	11 279	5 172	43 321
13µ Absolute, Synteq	P165875	HBK05	7 178	5 172	59 440
	P165876	HBK05	11 279	5 172	64 479
for P173544 Adapter					
3µ Nominal, Cellulose	P551550	LPS04	5 172	3.7 96	15 112
10µ Nominal, Cellulose	P551551	LPS04	5 172	3.7 96	23 172
	P550255	LPS04	9 229	3.7 96	28 216
25µ Nominal, Cellulose	P551554 ²	LPS04	5 172	3.7 96	10 77

Notes:

- (1) Based on a maximum pressure drop of 5" H₂O/ 0.18 *psi* through a clean filter.
 (2) Water Absorbing Filter. Absorbs approximately 6.6 *oz*/198 *ml* of water @ 5 *gpm* to 10 *psi*.

Replacement for Schroeder ABF3/10



- P538455 Spin-on Breather & Adapter
- P538532 Spin-on Breather only

Specifications:

- Diameter: 3.69" / 93.7 mm
- Height: 3.2" / 81.3 mm
- Threads on adaptor: 3/4-14 NPT