Spin-On Filter





Features and Benefits

- Spin on Steel head designed for use in application require steel rather than aluminum.
- Offered in SAE straight thread porting
- Spin-On thread = 1.00-12UNF-2B
- Visual gauge or electrical switch dirt alarms
- Small profile for use in limited space

Model No. of filter in photograph is: SAF16P10S.







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Filter Housing **Specifications**

Applications

20 gpm 75 L/min 100 psi

7 bar

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Metric dimensions in ().

Installation instructions included on element.

Element Performance Information

	Filtration Ration Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Filtration Ratio wrt ISO 16889 Using APC calibrated per ISO 11171		
Element	β _x ≥ 75	β _x ≥ 100	β _x ≥ 200	β _x (c) ≥ 200	β _x (c) ≥ 1000	
P10	15.5	16.2	18.0	N/A	N/A	
PZ10	7.4	8.2	10.0	8.0	10.0	
PZ25	18.0	20.0	22.5	19.0	24.0	

Dirt Holding Capacity

Element	DHC (gm)	
P10	37	
PZ10	N/A	
PZ25	N/A	
Element Collapse Rating: Flow Direction: Element Nominal Dimensions:		100 psid (1 bar) Outside In 3.75" (95 mm) O.D. x 5.5" (140 mm) long

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(75) (25)(50)15 ∆P (bar) 10 psi .5 ΔP 5 .25 0 0 5 10 15 20 Flow gpm

D 40	47
P10	.17
PZ10	.19
PZ25	.15

If working in units of bars & L/min, divide above factor by 54.9.

Viscosity factor: Divide viscosity by 150 SUS (32 cSt).

sp gr = specific gravity

Sizing of elements should be based on element flow information provided in the Element Selection chart above.

Notes		

 $\Delta \mathsf{P}_{\mathsf{filter}} = \Delta \mathsf{P}_{\mathsf{housing}} + \Delta \mathsf{P}_{\mathsf{element}}$

Exercise:

Determine △P at 10 gpm (38 L/min) for SAF16P10SY2 using 200 SUS (44 cSt) fluid.

Solution:

 $\Delta P_{\text{housing}}$ = 4.0 psi = [.28 bar]

$$\Delta P_{element} = 10 \times .17 \times (200 \div 150) = 2.3 \text{ psi}$$

or
= [38 x (.17 ÷ 54.9) x (44 ÷ 32) = .16 bar]
$$\Delta P_{total} = 4.0 + 2.3 = 6.3 \text{ psi}$$

or
= [.28 + .16 = .44 bar]

Information Based on Flow Rate and Viscosity

SAF1 Spin-On Filter

Filter	How to Build a Valid Model Number for a Schroeder SAF1:					
	BOX 1 SAF1	BOX 2 BOX	K 3 BOX	4 BOX 5	BOX 6	
	Example: Note:	One option per b	oox			
	BOX 1 SAF1	BOX 2 BOX 6 P1	6 3 BOX 4	BOX 5	BOX 6 Y2 = SAF16	6P10SY2
	BOX 1 BOX 2			BOX	BOX 4	
Filter Series		Element Length (in)	1	Element Size	Seal Material	
	SAF1 6		P10 = PZ10 = PZ25 =	P size 10 μ E media P size 10 μ Exceller P size 25 μ Exceller))	
BOX 5				BOX 6		_
	S = SAE-12		Dirt Alarm₀ Options			
				On	nit = None	
			Visual	Y2 = Back-mo	ounted tri-color gauge]
ſ			Electrical	ES = E		

NOTES: Box 2. Replacement element part numbers are a combination of Boxes 3 and 4. Example: P10