

# Norman 4450 Series In-Line Filters

**4450 41 T T - 10 V M**

**1.** Product Line Code

**2.** End Fitting Code  
(See chart)  
Number indicates size and end connection.

**3.** Housing Mtl. Code  
316 S.S. (8,000 psi)  
Titanium Alloy Grade 5 (10,000 psi)

**5.** Micron Rating Code

Nom.	Abs.	Code
.2	*	.5ABS
.5	*	1ABS
2	*	3ABS
5	*	7ABS
2	10	2X
5	18	5
10	25	10
20	40	20
40	75	40
100	150	100
200	300	200

**7.** O-Ring Material Code  
M PTFE

\* Other O-Rings may be furnished upon request

**4.** Element Mtl. Code  
316 S.S. Mesh T  
316 Porous Sintered P

\* Call factory for other grades of titanium or alternate materials.

\* Porous Sintered Stainless micron rating varies for liquid/gas applications. Call factory for ratings.

**6.** Element Collapse Code  
4500 psid (S.S. Wire Mesh) V  
3000 psid (Porous Sintered) F

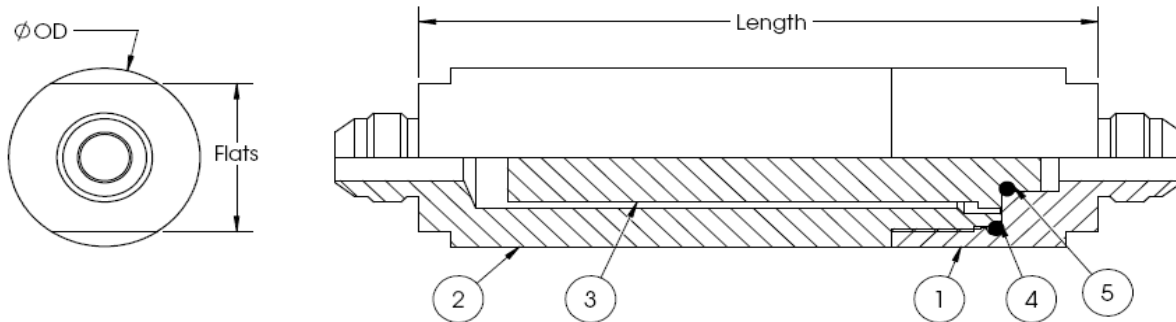
**HOW TO ORDER:**

1. Product line code
2. Select end fitting code from chart on bottom of page.
3. Select housing material code.
4. Select element material code.
5. Select micron rating code (up to 5 digits).
6. Select collapse code for element.
7. Choose O-Ring material (PTFE for cryogenic applications).

REPLACEMENT ELEMENT: **411 T - 10 V M**

End Fitting Selection Chart					
End Connection	Tube Fitting Size -4 Pipe Fitting Size - 1/8" OD - Call Factory	Tube Fitting Size -6 Pipe Fitting Size - 1/8" OD - 1.75"	Tube Fitting Size -8 Pipe Fitting Size - 1/4" OD - 1.75"	Tube Fitting Size -12 Pipe Fitting Size - 1/2" OD - 2"	Tube Fitting Size -16 Pipe Fitting Size - 3/4" OD 2.5"
Female NPT	N/A	22	23	25	26
M. 37° Flare	41	42	43	45	46
Replacement Element Size	411	412	413	415	416
Plated Element Surface Area	9 in <sup>2</sup>	15 in <sup>2</sup>	25 in <sup>2</sup>	36 in <sup>2</sup>	52 in <sup>2</sup>
Sintered Element Surface Area	4 in <sup>2</sup>	6 in <sup>2</sup>	8 in <sup>2</sup>	15 in <sup>2</sup>	21 in <sup>2</sup>

\* Note that all OD dimensions are for stainless steel housings. Call factory for titanium dimensions and lengths. Titanium OD dimension may be smaller than values listed above.  
 \* For alternate fitting types call factory. SAE AS1098 seal for flare fittings available upon request.



BILL OF MATERIAL		
ITEM NO.	PART NO.	QTY
1	Filter Plug	1
2	Filter Case	1
3	Filter Element	1
4	Housing O-Ring	1
5	Element O-Ring	1

**4450 Series Features**

1. Ideal for gas and cryogenic applications.
2. 8,000 psi operating pressure in stainless steel model and 10,000 psi operation pressure in titanium model.
3. Titanium model offers significant weight savings.
4. Wall thickness design per ASME B31.3.