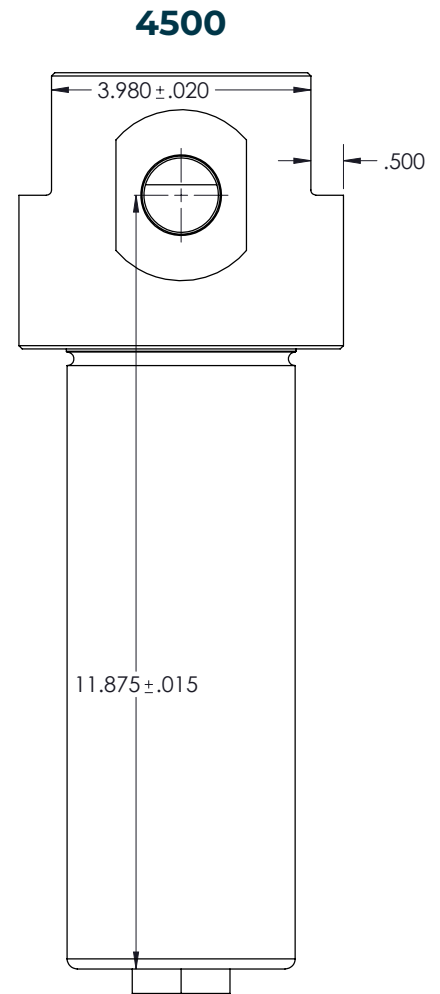
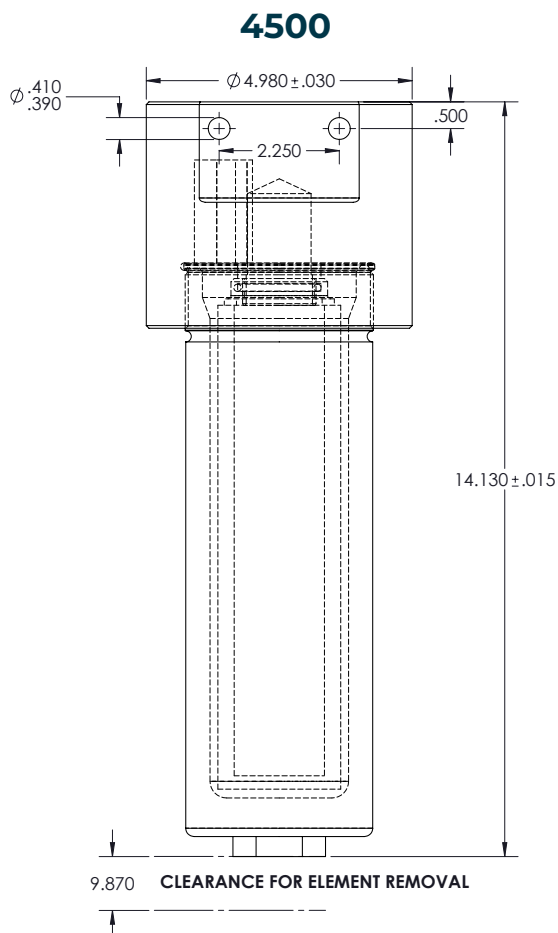




Size 588 - 50 GPM/4,000 SCFM

Rated Flow @ 10 PSID, clean (max):
50 GPM w/100 SSU Oil
4,000 SCFM @ 3,000 PSI, GN2

Type	Operating Pressures	Series
Aluminum	5,000 PSI	4500
316SS	6,000 PSI	4500



Norman Filters are compatible with a wide range of fluids and gases. Increased differential pressure will inhibit performance of your system and potentially affect the longevity of your filter element. To ensure proper filter selection, a pressure drop curve can be calculated to provide you visual assistance in identifying the correct filter for your application's specific needs.

Contact Norman Filter Company today for a free Differential Pressure Calculation.

4500 Series - Size 588 50 GPM/4,000 SCFM

5,000 PSI & 6,000 PSI Filter Model Code

1 2/2A 3 4 5 6 7 8/8A/8B/8C
45 98 T G — 20 D N — EER

1- PRESSURE

45 5K PSI (Aluminum)
45 6K PSI (316SS)

2- PORT SIZE & TYPE

98 1"-11.5 FNPT
88 1-1/4"-11.5 FNPT
24 1-1/2"-11.5 FNPT
80S 1" SAE AS5202-16
99S 1-1/4" SAE AS5202-20
78S 1-1/2" SAE AS5202-24
80J 1" SAE J-1926/1-16
99J 1-1/4" SAE J-1926/1-20
78J 1-1/2" SAE J-1926/1-24

3- HOUSING MATERIAL

A Aluminum 5K PSI
G 303 Stainless 6K PSI
T 316 Stainless 6K PSI
B Brass CALL FACTORY
M Monel 6K PSI
D Duplex 6K PSI

4- ELEMENT CODE

A Cellulose
F Glass Fiber
G 316 Stainless Wire Mesh
P 316 Sintered
R 316 Random Metal Fiber
N Nickel 200/201 Sintered
W Nickel 200/201 Wire Mesh
B Sintered Tin/Bronze

5- MICRON CODE

Element Code		Code	NOM.	ABS.
G		2X	2	10
		05	5	18
		10	10	25
G, W		20	20	40
		40	40	75
		75	75	100
		100	100	200
		200	200	300
R		1	-	1
		3	-	3
		5	-	5
		10	-	10
		20	-	20
F		100	-	100
		B1	-	1
		B3	-	3
		B5	-	5
		B10	-	10
A		B25	-	25
		03	03	-
		10	10	-
P, N		25	25	-
		0.2	0.2	1.4
		0.5	0.5	2.2
		1	0.7	3.3
		2	2	9
		5	5	13
		10	13	20
		20	20	35
		10	10	15
		20	20	27
B		40	40	52
		100	100	100

6- COLLAPSE RATING

D 4,500 PSI Wire Mesh
E 4,500 PSI RMF
A 300 PSI Glass Fiber
C 3,250 PSI Glass Fiber
P 150 PSI Cellulose
R 300 PSI Cellulose
F 2,000 PSI 316 Sintered
K Nickel Sintered
X Brass Sintered

7- O-RING MATERIAL

M Teflon
M1 Teflon Per AMS 3678C-1-B
E Ethylene Propylene
E1 V1238-95
S Silicon
L 70 Durometer Buna-N
K 90 Durometer Buna-N
HNBR HNBR
H 4079 Kalrez
N Viton
MN Teflon Coated Viton

2A WELD SPECS

Port Size, X/16 Scale	Pipe Schedule	Socket/Butt Weld
58816	40	SW, BW
	80	
	160	
	XX	
58820	40	
	80	
	160	
	XX	
58824	40	
	80	
	160	
	XX	

REPLACEMENT ELEMENT:

588 4 5 6 7
G — 20 D N

SEAL KIT:

KIT - 1 7 8/8A/8B/8C
45 -588- N EER

8/8A/8B/8C- ACCESSORIES

DR-1 1/8"-27 FNPT Bowl Drain
DR-2 1/4"-18 FNPT Bowl Drain
DR-3 SAE AS5202-02 Bowl Drain
DR-4 SAE AS5202-04 Bowl Drain
S1 1/8"-27 FNPT DP Ports
S2 1/4"-18 FNPT DP Ports
S3 SAE AS5202-02 DP Ports
S4 SAE AS5202-04 DP Ports
See Table 8A Electrical Indicator
See Table 8A/C Elec. Indicator + Bypass Valve
See Table 8B Visual Indicator
See Table 8C Bypass Valve
See Table 8B/C Visual Indicator + Bypass Valve

8A		8B		8C	
Elec. Indicator		Visual Indicator		Bypass Valve	
Code	Pressure	Code	Pressure	Code	Pressure
EE	40 PSID	V	40 PSID	R	50 PSID
EE20	20 PSID	V15	15 PSID	R25	25 PSID
EE75	75 PSID	V80	80 PSID	R150	150 PSID
		V120	120 PSID		

For Combination Accessories:
EX: EE75R150 or V120R150



4500 Series

The 4500 Series T-Type filter is available in a variety of configurations. With a broad range of flows, the 4500 Series is the ultimate filter for process and fine particulate filtration. While filtering liquids and gases, the 4500 can be used in any system between Cryogenics to Compressed Gasses.

Standard Filter Details

Housing: Aluminum, 316 SS, 17-4 Stainless, Brass (Monel, Duplex, and others available upon request)
Mounting: Two through head holes
Flow: Left to right; out to in (Reverse flow available)
Operating Pressure: 5,000 - 20,000 PSI
Port Size: 1/4" - 1 1/2"
Port Type: FNPT, O-Ring Boss, Medium Pressure ports (+10,000 PSI), Socket Weld
Element: Cellulose, Glass Fiber, Stainless Steel, Random Metal Fiber, Porous Sintered, Coalescing
Micron Ratings: .2 - 200 Nominal (300 Absolute)
Temperature Ratings: -320° - 600°F



Size and Configuration Comparison

SIZE	535	536	586	587	588
GPM/SCFM	10/300	16/600	24/1,200	35/2,500	50/4,000
PORT SIZE	1/4" - 1" NPT, 1/4" - 1" SAE, 1/4" - 1" Medium Pressure			1" - 1 1/2" NPT, 1" - 1 1/2" SAE	
HOUSING MATERIAL	Aluminum, 303 SS, 316 SS, 17-4 SS (Brass, Monel, Inconel Upon Request)				
OPERATING PRESSURE	0 - 20,000 PSI			5,000 PSI Aluminum/6,000 PSI Steel	

Industries served:

- Aerospace & Defense
- Oil & Gas
- Industrial
- Automotive
- Education

Applications:

- Ground Support Equipment
- SubSea ROV Hydraulics
- Hydraulic Power Units
- High pressure test stands
- Laboratory filtration

Liquids and Gases:

- RP-3 (Jet Fuel)
- Liquid Oxygen/Helium
- Water Glycol
- Methanol
- Freon

