



NORMAN FILTER COMPANY

4300 & 4400 SERIES FILTER

PRODUCT ASSEMBLY & CLEANING

WARNING !!!

The System Line Is A High Pressure Line.
Be Sure There Is No Pressure In The Line Before Connecting/Disconnecting Filter Assembly.

- 1.1 Be sure to follow all safety rules, such as wearing protective goggles and gloves.
- 2.1 Disconnect the filter assembly from the system supply line.
- 3.1 Use a wrench to unscrew the fitting end from the filter body.
- 4.1 Discard the filter body o-ring.
- 5.1 Use a wrench to unscrew the filter element from the fitting end.
- 6.1 Discard the filter element o-ring.
- 7.1 Microglass and paper elements are not recleanable and must be replaced.
 - 7.1.2 Stainless steel elements may be cleaned as follows:
 - 7.1.2.1 Remove rough external dirt in a separate container with cleaning fluid.
 - 7.1.2.2 Soak the filter for thirty minutes in a high quality cleaning fluid.
 - 7.1.2.3 Following the soak, blow through the element (150 psi max.) from inside to outside with clean compressed air or similar clean gas.
 - 7.1.2.4 Remove any remaining water particles by dipping the filter in isopropyl alcohol.
- 8.1 Lubricate element o-ring and housing seals.

Housing Material	O-ring Material	Lubricant
Stainless	L, N, M, H, K, MN	Halocarbon
Aluminum	L, N, M, H, K, MN	Petroleum Jelly
Stainless / Aluminum	E	Silicone

- 9.1 Lubricate stainless steel thread with Halocarbon 32 Grease only. Do not use silicone lubricants on stainless steel threads. Special care must be taken not to mix the applicators use for silicone & Halocarbon 32 lubricants. The mixed silicone lubricants can damage the stainless steel threads.

- 10.1 Where EPR (E) seals are used, lubricate only the seal with the silicone.
 - 10.1.1 If the housing is aluminum, lubricate the seal and thread with silicone.
 - 10.1.2 If the housing is stainless steel, install the seal to the plug seal groove.
 - 10.1.3 Lubricate the seal by taking the silicone lubricant and rubbing the lubricant on all surfaces of the seal.
 - 10.1.4 Note: For Teflon™ rings, use special Teflon™ tool to avoid tears.
- 11.1 Inspect element for uniform pleats. If any visible damage, element is a non-conforming product.
- 12.1 Visually inspect case and plug threads. If any visible damage, the part is a non-conforming product.
- 13.1 Visually inspect for presence of a flow arrow marking and heat numbers on bowl and head. If either is missing the assembly is a non-conforming product.
- 14.1 Install Teflon™ o-ring onto element. Note: For Teflon™ rings, use special Teflon™ tool to avoid tears.
- 15.1 Assemble element to plug. Tighten until metal seats on metal (bottoms out).
- 16.1 Assemble plug to case tighten while filter is in a clamping devise with protected faces to avoid scratching the product. Torque plug to specifications below.

1/4"	3/8"	1/2"	3/4"	1"
Part# Prefix: 43_ _ _	43_ _ _	43_ _ _	43_ _ _	43_ _ _
1 1	1 2	1 3	1 5	1 6
4 1	2 2	2 3	2 5	2 6
6 1	4 2	4 3	3 5	4 6
8 1	5 2	5 3	4 5	5 6
1 0 1	6 2	6 3	5 5	6 6
1 2 1	7 2	7 3	6 5	7 6
1 3 1	8 2	8 3	7 5	8 6
1 4 1	9 2	9 3	8 5	9 6
1 7 1	1 0 2	1 0 3	9 5	1 0 6
	1 1 2	1 1 3	1 0 5	1 1 6
	1 2 2	1 2 3	1 1 5	1 2 6
	1 3 2	1 3 3	1 2 5	1 3 6
	1 4 2	1 4 3	1 4 5	1 4 6
	1 5 2	1 5 3	1 5 5	1 5 6
	1 6 2	1 6 3	1 6 5	1 6 6
	1 7 2	1 7 3	1 7 5	1 7 6
30-45' lbs.	30-45' lbs.	45-60' lbs.	60-80' lbs.	80-90' lbs.

18.1 Re-install the filter assembly in the system supply line. Lubricate the threads of the filter assembly.

19.1 Check for leaks when the system is pressurized.

NOTE:

The filter element life is based upon cleaning cycles and pressure drop. The estimated life of the element is 10 to 15 cleaning cycles. If the element has exceeded this level, discard and replace with a replacement element.

Cleaning fluids that may be used are acetone, mineral spirits and a variety of others. Halocarbon 32 grease is our recommended lubricant. Other acceptable lubricants include petroleum jelly or silicone. Extreme caution should be used when using dry lubricants, due to the fact that our threads are single point, precision threads and dry lubricants can disrupt clearances.

Teflon™ is a registered trademark of Dupont.