



Sun filter elements are available as Surface Type (Last Chance) and Depth Style elements. The flow path is Port 2 to Port 1 and should not be used in reverse, even with a reverse free flow check valve installed. The elements have a high collapse pressure and are intended to be used in line with the system. Filter life will depend on initial system cleanliness and the amount of dirt ingestion to the system when operating.

TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-16A
Series	3
Capacity	40 gpm
Maximum Operating Pressure	5000 psi
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Seal kit - Cartridge	Buna: 990-016-007
Seal kit - Cartridge	EPDM: 990-016-014
Seal kit - Cartridge	Polyurethane: 990-016-002
Seal kit - Cartridge	Viton: 990-016-006

- NOTES:**
- Capacity rating is dependent on the micron rating of the element. Stated flow capacity in the Technical Data table is based on the 40 micron rating. See performance curves.
 - See Related Accessories for replacement elements.

OPTION SELECTION EXAMPLE: FLHAXDN

CONTROL	(X)	FILTER RATING	(D)	SEAL MATERIAL	(N)	MATERIAL/COATING
X	Not Adjustable	D 40 Micron Nominal (Surface type)	N	Buna-N	Standard Material/Coating	
		A 3 Micron Nominal (Depth type)		E EPDM	IAP	Stainless Steel, Passivated
		B 10 Micron Nominal (Depth type)		V Viton	LH	Mild Steel, Zinc-Nickel
		C 25 Micron Nominal (Depth type)				
		Z 1 Micron Nominal (Depth type)				

TECHNICAL FEATURES

- Differential crush pressure is 3000 psid (210 bar).
- The flow path is Port 2 to Port 1 only.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Installation directly above the subplate will protect the entire valve stack from particles.
- Surface type element features a 304 stainless steel mesh media. All internal components are 304 stainless steel.
- Surface Type elements have a 40 micron nominal rating (63 micron absolute).
- Surface Type elements are designed to capture errant particles that may not be trapped in the main system filter or particles resulting from a component failure.
- With a correctly assembled system, Surface Type elements will be unnoticed during regular operation, but will provide protection from sudden component failure.
- Surface Type (Last Chance) elements have a single layer stainless steel mesh supported by perforated sheet tube.
- Depth Type elements feature a pleated microglass media with clear zinc coated components.
- Depth type elements are available in 1 µm, 3 µm, 10 µm, and 25 µm nominal ranges.
- 1, 3, 10, and 25 micron elements have a Beta ratio as shown in the Performance Curves tab.

PERFORMANCE CURVES

MICRON RATING	FILTRATION RATIO PER ISO 16889			
	B _{X(C)} ≥75 (98.7%)	B _{X(C)} ≥100 (99.0%)	B _{X(C)} ≥200 (99.5%)	B _{X(C)} ≥1000 (99.9%)
1	<4.0	<4.0	<4.0	4.2
3	<4.0	<4.0	<4.0	4.8
10	6.8	7.1	8.0	10.0
25	16.3	17.1	19.0	24.0



