

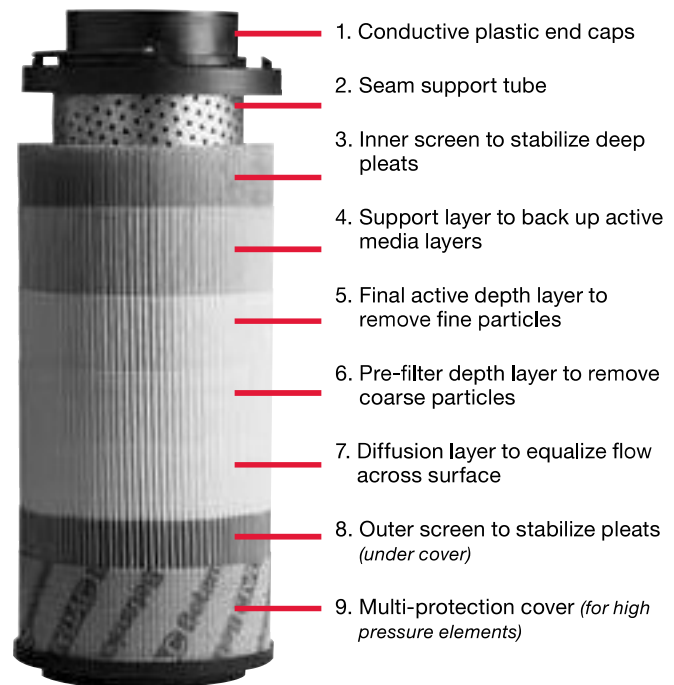
FILTER ELEMENTS

Betamicron® Series

High Pressure and Return Filter Elements



Element Construction



Description

Betamicron® filter elements have been optimized with respect to filtration performance, in fluid cleanliness, lower $\Delta P/Q$, pleat and element protection while handling and operating, and high stability level throughout its life. These elements offer a superior level of optimization of separation efficiency, service life and differential pressure versus flow rate.

As a complete element package, the innovative characteristics of this technology have a very positive impact on the differential pressure of the elements and a high degree of filtration efficiency and performance.

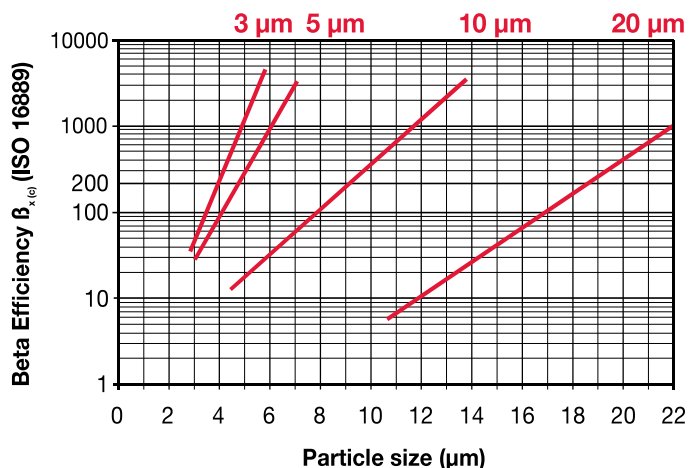
Features

- Optimized mesh pack structure maximizes the media area available to capture dirt particles and minimizes resistance to fluid flow. Optional SFREE mesh pack insures that static electricity will not be generated to dangerous levels where arcing can result.
- Improved performance (optimized Beta efficiency, contamination retention, $\Delta P/Q$ characteristics and Beta stability) and lowered weight due to plastic spiral lock seam support tubes.
- All plastic end caps and support tubes are carbon impregnated to conduct electricity, which ensures that static electricity will not be generated to levels high enough to arc.
- Element outer wraps are made of plastic (polyester) to reduce environment impact and improve fatigue resistance.
- Zinc-free construction prevents zinc soaping.

Technical Specifications

Collapse Rating	290 psid (20 bar) (R/RN, BN4HC, D/DN, BN4HC) 3045 psid (210 bar) (D, BH/HC)
Temp. range	-22°F to 212°F (-30°C to 100°C)
Flow direction	outside to inside
Filtration Rating	3, 5, 10, 20 μm
Category	Disposable - single use
Bypass Cracking Pressure	
	R (only) = 43 psid (3 bar) (standard, others available)
	D...BN = 87 psid (6 bar) (standard, others available)
	D...BH = No bypass (standard)

Beta Ratio (β) Values for Betamicron



“D / DN” Pressure Elements Model Code

	0660	D	005	BH4HC / V	SO263
Size					
D = 0030, 0035, 0055, 0060, 0075, 0095, 0110, 0140, 0160, 0240, 0280, 0330, 0500, 0660, 0990, 1320, 1500					
DN = 0040, 0063, 0100, 0160, 0250, 0400, 0630, 1000					
Pressure Element Type					
D = HYDAC pressure element					
DN = DIN Spec. 24550 pressure element					
Filtration Rating (micron)					
3, 6, 10, 25 = BN4/HC (DN only)					
3, 5, 10, 20 = BH4HC					
Element Media					
BN4HC = Betamicon®-N element (Low Collapse)					
BH4HC = Betamicon®-H element (High Collapse)					
Seals					
(omit) = Nitrile rubber (NBR) (standard)					
V = Fluorocarbon elastomer (FKM)					
EPR = Ethylene propylene rubber (EPR)					
Supplementary Details					
SO263 = Modification of ON & W/HC elements for Skydrol or HYJET phosphate ester fluids					
SFREE = Element specially designed to minimize electrostatic charge generation					

“R / RN” Return Elements Model Code

	1300	R	005	BN4HC /	B6	SO263
Size						
R = 0030, 0060, 0050, 0075, 0090, 0110, 0150, 0160, 0165, 0185, 0210, 0240, 0270, 0330, 0500, 0660, 0850, 0950, 1300, 1700, 2600, 2700						
RN = 0040, 0063, 0100, 0160, 0250, 0400, 0630, 1000						
Return Element Type						
R = HYDAC low pressure return element						
RN = DIN Spec. 24550 return element						
Filtration Rating (micron)						
3, 5, 10, 20 = BN4HC						
Element Media						
BN4HC = Betamicon® (Low Collapse) high efficiency depth element						
Seals						
(omit) = Nitrile rubber (NBR) (standard)						
V = Fluorocarbon elastomer (FKM)						
EPR = Ethylene propylene rubber (EPR)						
Bypass Cracking Pressure						
(omit) = 43 psid (3 bar) (standard)						
B1 = 14.5 psid (1 bar) (tube or coolant)						
B2 = 29 psid (2 bar) (HYDAC optional return)						
B6 = 87 psid (6 bar) (return line extended life)						
KB = No bypass (flushing systems)						
Supplementary Details						
SO263 = Modification of ON & W/HC elements for Skydrol or HYJET phosphate ester fluids						
SFREE = Element specially designed to minimize electrostatic charge generation						

Model Codes Containing RED are non-stock items — Minimum quantities may apply – Contact HYDAC for information and availability