

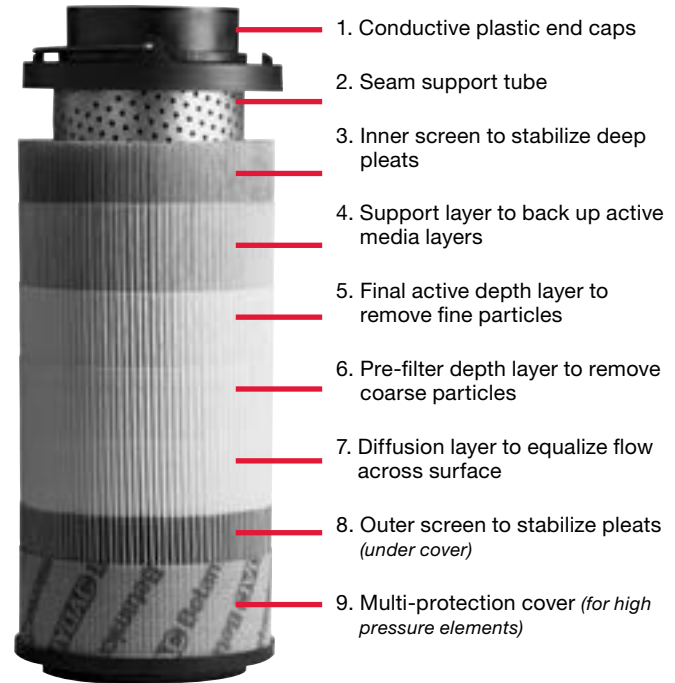
# FILTER ELEMENTS

## Betamicon® Series

High Pressure and Return Filter Elements



### Element Construction



### Description

Betamicon® 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.

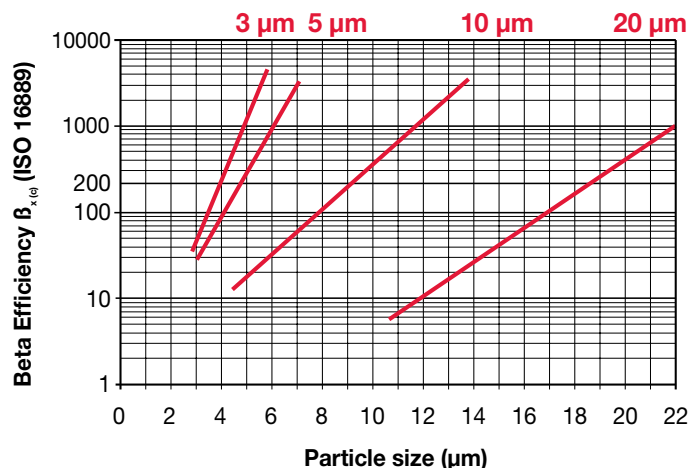
### Features

- 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 a impact and improve fatigue resistance.
- Zinc-free construction prevents zinc soaping.

### Technical Specifications

<b>Collapse Rating</b>	290 psid (20 bar) (R/RN, BN4HC, D/DN, BN4HC) 3045 psid (210 bar) (D, BH/HC)
<b>Temp. range</b>	-22°F to 212°F (-30°C to 100°C)
<b>Flow direction</b>	outside to inside
<b>Filtration Rating</b>	3, 5, 10, 20 $\mu$ m
<b>Category</b>	Disposable - single use
<b>Bypass Cracking Pressure</b>	
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 ( $\beta$ ) Values for Betamicon



## “D / DN” Pressure Elements Model Code

		0660	D	005	BH4HC	/	V	SO263
<b>Size</b>								
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						
<b>Pressure Element Type</b>								
D	=	HYDAC pressure element						
DN	=	DIN Spec. 24550 pressure element						
<b>Filtration Rating</b> (micron)								
3, 6, 10, 25	=	BN4/HC (DN only)						
3, 5, 10, 20	=	BH4HC						
<b>Element Media</b>								
BN4HC	=	Betamicon®-N element (Low Collapse)						
BH4HC	=	Betamicon®-H element (High Collapse)						
<b>Seals</b>								
(omit)	=	Nitrile rubber (NBR) (standard)						
V	=	Fluorocarbon elastomer (FKM)						
EPR	=	Ethylene propylene rubber (EPR)						
<b>Supplementary Details</b>								
SO263	=	Modification of 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
<b>Size</b>									
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							
<b>Return Element Type</b>									
R	=	HYDAC low pressure return element							
RN	=	DIN Spec. 24550 return element							
<b>Filtration Rating</b> (micron)									
3, 5, 10, 20	=	BN4HC							
<b>Element Media</b>									
BN4HC	=	Betamicon® (Low Collapse) high efficiency depth element							
<b>Seals</b>									
(omit)	=	Nitrile rubber (NBR) (standard)							
V	=	Fluorocarbon elastomer (FKM)							
EPR	=	Ethylene propylene rubber (EPR)							
<b>Bypass Cracking Pressure</b>									
(omit)	=	43 psid (3 bar) (standard)							
B1	=	14.5 psid (1 bar) (lube or coolant)							
B2	=	29 psid (2 bar) (HYDAC optional return)							
B6	=	87 psid (6 bar) (return line extended life)							
KB	=	No bypass (flushing systems)							
<b>Supplementary Details</b>									
SO263	=	Modification of elements for Skydrol or HYJET phosphate ester fluids							
SFREE	=	Element specially designed to minimize electrostatic charge generation							