

FILTER ELEMENTS

MA & MG Series

Spin-On Elements



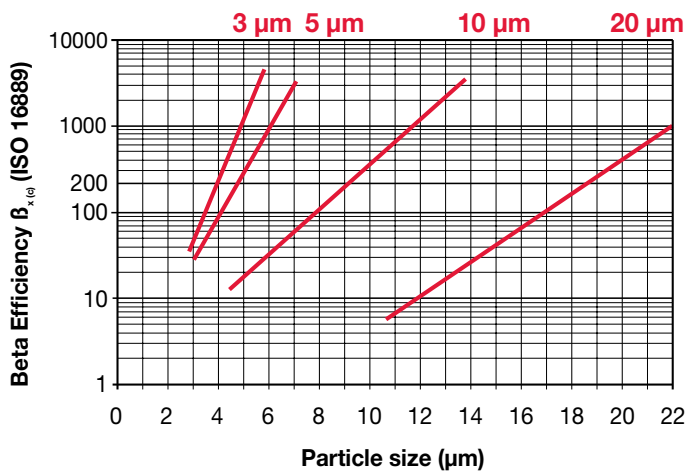
Features

- HYDAC Betamicon® elements are available with Multi-Layer Betamicon® media with absolute ratings of 3, 5, 10, and 20 microns.
- Proper support of the filter media provides high Beta Ratio values (particle removal efficiency) even at high differential pressures. The efficiency of many competitive elements drastically deteriorates as the element clogs and differential pressure increases.
- Betamicon® filter media is firmly supported to achieve flow fatigue resistance during significant pressure flow pulsations.
- High quality adhesive is used to bond the seam of the media and the endcaps to the media.
- Heavy gauge perforated support tubes are used to provide proper flow distribution and protection against element collapse.

Technical Specifications

Construction Materials	Steel
Flow Capacity	
40	7 gpm (26 lpm)
80	15 gpm (57 lpm)
85	25 gpm (95 lpm)
90	15 gpm (57 lpm)
95	25 gpm (95 lpm)
160/190	30 gpm (114 lpm)
180/195	60 gpm (227 lpm)
Housing Pressure Rating	
Max. Operating Pressure	120 psi (8 bar)/250 psi (17 bar) (MF90/95)
Proof Pressure	180 psi (12.4 bar)/375 psi (25.8 bar) (MF90/95)
Fatigue Pressure	Contact HYDAC
Burst Pressure	Contact HYDAC
Element Collapse Pressure Rating	
BN, P, AM	80 psid (5.5 bar)
Fluid Temperature Range	-22°F to 212°F (-30°C to 100°C) Consult HYDAC for applications below 14°F (-10°C)
Fluid Compatibility	Compatible with all petroleum oils rated for use with Nitrile rubber (NBR) seals.
Bypass Valve Cracking Pressure	
	$\Delta P = 3$ psid (0.2 bar) + 10% (for suction applications)
	$\Delta P = 25$ psid (1.7 bar) + 10% (standard for nominal filters)
	$\Delta P = 43$ psid (3 bar) + 10% (standard for absolute [BN] filters)
	$\Delta P = 50$ psid (3.4 bar) + 10% (standard for absolute [BN] filters, MF 90/95/190/195)

Beta Ratio (β) Values for Betamicon



Model Code

0080 MA 005 BN

Size				
0040, 0080, 0090 = Standard Length Elements (not available with 3 μm BN elements)				
0085 (not available with BN or AM elements)		Extended Length Elements		
0095 (not available with 20 μm BN elements)				
0160				
0180				
Type				
MA	= UN Tap Plate Thread (standard)			
	Size	Thread		
	0040	3/4" - 16 UN-2B		
	0080/0085	1"-12 UN-2B		
	0090/0095	1 1/2"-16UN-2B		
	0160/0180	1 1/2"-16UN-2B		
MG	= BSPP Tap Plate Thread (special)			
	Size	Thread		
	0080	3/4" BSPP	Not required for BSPP ported heads produced in the USA, MA elements used on USA port codes "1.0"	
	0160	1 1/4" BSPP		
Filtration Rating (microns)				
3, 5, 10, 20 = BN Filtration Rating ($\beta_{x(e)} \geq 200$)		3, 10, 25 = P		
040 = AM				
Element Media				
BN	= Betamicron® (Low Collapse)			
P	= Paper			
AM	= Aquamicron® Water Removal (not available 0085)			
Supplementary Details				
Bypass size 0040 only (bypass in element)				
B1.3	= 18 PSID Bypass			
B1.7	= 25 PSID Bypass			

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