

MA & MG Series Spin-On Elements



Features

- HYDAC Beta Spin™ elements are available with Multi-Layer Betamicon® media with absolute ratings of 3, 5, 10, and 20 microns (Beta Ratio ≥ 200).
- 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 Details

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, A	80 psid (5.5 bar)
Fluid Temperature Range	-22° to 250°F (-30° to 121°C)
Fluid Compatibility	Compatible with all petroleum oils and synthetic fluids rated for use with Fluoroelastomer or Ethylene Propylene seals. Contact HYDAC for information on special housing and element constructions available for use with water glycols, oil/water emulsions, and HWBF.
Bypass Valve Cracking Pressure	$\Delta P = 3 \text{ psid (0.2 bar)} + 10\%$ (for suction applications) $\Delta P = 25 \text{ psid (1.7 bar)} + 10\%$ (standard for nominal filters) $\Delta P = 43 \text{ psid (3 bar)} + 10\%$ (standard for absolute [BN] filters) $\Delta P = 50 \text{ psid (3.4 bar)} + 10\%$ (standard for absolute [BN] filters, MF 90/95/190/195)

Model Code

	0080	MA	005	BN
Size	0040, 0080, 0090, 0160 = Standard Length Elements (not available with 3 μm BN elements)			
	0085 (not available with BN or A elements)			
	0095 (not available with 20 μm BN elements)			
	0180			
	Extended Length Elements			
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 "2.0"	
	0160	1 1/4" BSPP		
Filtration Rating (microns)	3, 5, 10, 20 = BN Filtration Rating ($\beta_{s(c)} \geq 200$)			
	010 = AM			
	3, 10, 25 = P			
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