MA & MG Series
Spin-On Elements

Features

- HYDAC Beta Spin™ elements are available with Multi-Layer Betamicron® 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.
- Betamicron® filter media is firmly supported to acheiveflow 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 Compatability	
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	
ΔP = 3 psid (0.2 bar) + 10% *(for suction applications)*	
ΔP = 25 psid (1.7 bar) + 10% *(standard for nominal filters)*	
ΔP = 43 psid (3 bar) + 10% *(standard for absolute [BN] filters)*	
ΔP = 50 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
0160	1 1/4" BSPP

Not required for BSPP ported heads produced in the USA, MA elements used on USA port codes "2.0"

Filtration Rating *(microns)*

3, 5, 10, 20 = BN Filtration Rating ($\beta_{x(c)} \geq 200$)
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