

## 6,000 PSI HIGH PRESSURE "MHP" Series HYDRAULIC

"T" Type Filter  
for heaviest  
duty "Line Type"  
service.

- Solid, sturdy, aluminum—lightweight for ease, speed, and economy of handling and installation.
- "T" Type design and simple screw-on element housing enhance ease of element servicing and installation plumbing.
- Sealing reliability at all pressures assured by use of "pressure energized" seals.
- Pressure-energized housing seal eliminates need for high torque tightening of housing into filter head when servicing element.
- Elements highly resistant to collapse—withstand pressure differentials in excess of 100 psi.
- Attractive, streamlined, space-saving design.



## SOLID Aircraft Quality BAR STOCK ALUMINUM with 20,000 PSI Minimum Burst Rating at 70° F.

For Hydraulic Oils, Coolants,  
Lubricants, Water Glycols, and  
other fluids

- Up to 6000 PSI Operating Pressures
- Down to 10-Micron Filtration
- 35 PSI By-Pass Valve
- 3/4"-16 through 1 5/8"-12 UNF SAE Ports

**TABLE I**  
**MAXIMUM FLOW RECOMMENDATIONS**  
with \*25 micron and coarser wire cloth elements  
at 100 S.U.S. with elements in clean condition

Col. 1 Housing Number	Col. 2 SAE Port Sizes	Col. 3 G.P.M. Max.	Col. 4 Max. Pressure Drop PSI for **25-Micron Element
MHP-1003	3/4"-16 UNF	5	8.5
MHP-1006	7/8"-14 UNF	10	16.3
MHP-1009	1 1/16"-12 UNF	15	17.7
† MHP-1015A	1 3/16"-12 UNF	25	17.5
† MHP-1020A	1 5/16"-12 UNF	25	14.4
† MHP-1025A	1 5/8"-12 UNF	30	15.5

\*\*Pressure Drop is lower with coarser elements.

**TABLE II**  
**FILTER ELEMENT MEDIA DATA**

Col. 1 Num- ber	Col. 2 Nominal Micron Rating	Col. 3 *Wire Cloth Element
2210	2	**10-Micron Stainless
2215	5	**15-Micron Stainless
2225	10	25-Micron Stainless
200	74	200 Mesh
100	141	100 Mesh
60	262	60 Mesh
40	385	40 Mesh
30	546	30 Mesh

\*Consult Marvel for Flow Recommendations of Filters with 10 and 15 Micron Elements.

†Paper Elements available. Marvel 7000 Series.

### SELECTING & ORDERING

1. From Table I, select desired G.P.M. flow (Col. 3) and specify the corresponding Housing Number. Example: For a 5 G.P.M., 3/4"-16 Port Filter, specify Housing Number "MHP-1003".
2. From Table II, Col. 2, select your desired "Nominal Micron Rating" and specify it by the corresponding number in Col. 1. Example: "10-Micron" Filtration is specified by Filter Element Media Number "2225".
3. To specify complete Filter Model, simply add the Filter Element Media Number (In this case "2225") to the selected Housing Number (In this case "MHP-1003). Example:

"MHP-1003 — 2225"  
Housing No. from Table I, Col. 1      Filter Element Media No., Table II, Col. 1.

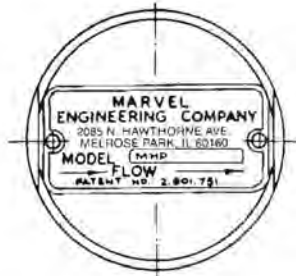
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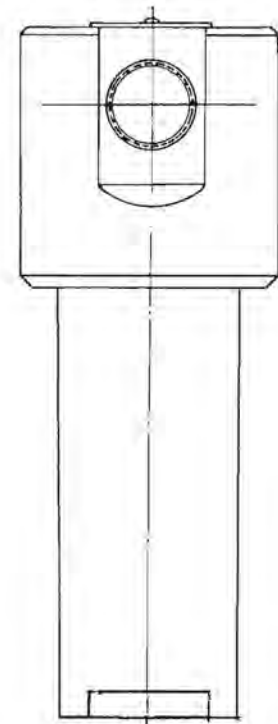
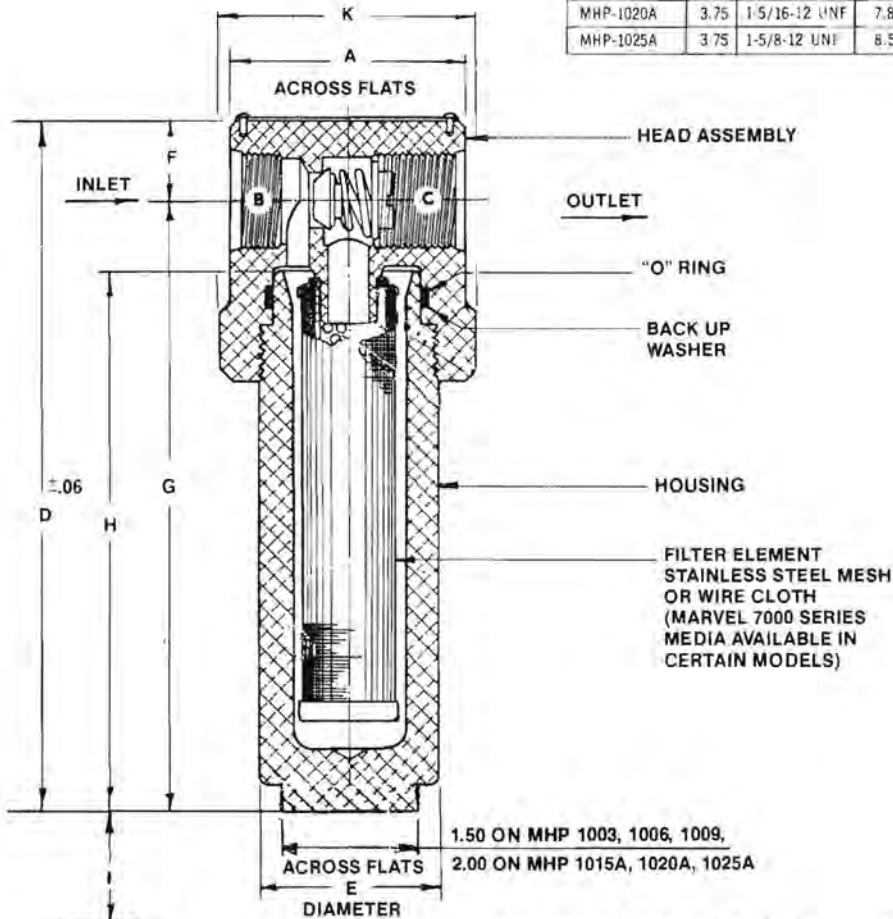
See Other Side for  
Dimensions and Servicing Data ...

## 6000 PSI HIGH PRESSURE "MHP" SERIES HYDRAULIC FILTERS

### Dimensions and Servicing



MODEL NO.	DIMENSIONS									
	A	B AND C (S.A.E.)	D	E	F	G	H	I	K	WT. IN LBS.
MHP-1003	2.62	3/4-16 UNF	6.75	2	.87	5.87	5.06	4.00	2.87	2.48
MHP-1006	2.62	7/8-14 UNF	7.12	2	.87	6.25	5.50	4.50	2.87	2.56
MHP-1009	2.62	1-1/16-12 UNF	7.62	2	.87	6.75	6.00	5.00	2.87	2.62
MHP-1015A	3.75	1-3/16-12 UNF	6.87	3	1.12	5.75	4.75	3.81	4.25	5.75
MHP-1020A	3.75	1-5/16-12 UNF	7.87	3	1.12	6.75	5.75	4.75	4.25	6.25
MHP-1025A	3.75	1-5/8-12 UNF	8.50	3	1.12	7.38	6.43	5.43	4.25	6.50



CLEARANCE REQUIRED FOR REMOVAL OF HOUSING



Clean filter element at or before 35 PSI port-to-port pressure differential is reached. 25-micron and finer elements must be ultrasonically cleaned. Coarser elements may be cleaned as follows:

1. Unscrew and remove Filter Housing to expose Filter Element.
2. Remove Element by hand-rotating it slightly while pulling.
3. Clean Element by immersing and swishing it thoroughly in any non-caustic commercial cleaning solvent.

4. Shake off excess solvent from cleaned element or blow element from inside out with compressed air until dry.
5. Clean Housing by washing it in same non-caustic solvent.
6. Oil or grease Element "O" Ring for ease of element re-installation.
7. Oil or grease Housing "O" Ring for ease in re-installing Housing.
8. Re-install Housing by hand-threading it into Filter Head. Use just enough tightening torque to prevent accidental loosening.

To order parts, merely specify complete model number and part name.

