



# HP500/501 Series

PTI PG-050-#H and PG-050-#U,  
Mahle PI-##15 pressure filters

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
-20f to 250f, -29c to 120c (viton)

Element collapse HP500 = 450 psid (30 bar)  
HP501 = 3000 psid (210 bar)

**Interchanges by series only:**  
**(See interchange guide for exact cross  
Reference and complete part numbers)**

### Media

G6 media pleat pack features our latest generation of graded density glass media that delivers required cleanliness while optimizing dirt capacity.

### Dynamic Filter Efficiency

DFE rated elements perform true to rating even under demanding variable flow and vibration conditions. Today's industrial and mobile hydraulic circuits require elements that deliver specified cleanliness under all circumstances. Wire mesh supports the media to ensure against cyclical flow fatigue, temperature, and chemical resistance failures possible in filters with synthetic support mesh.

### Tested to ISO quality standards

ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

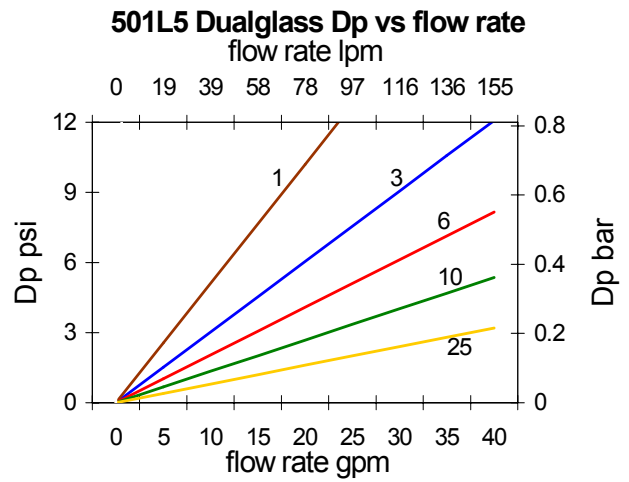
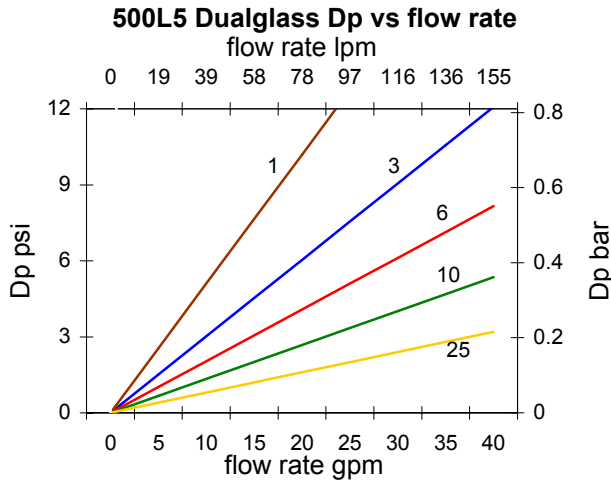
PTI	HY-PRO
PG-050-#H	HP500L5-##
PG-050-#U	HP501L5-##

MAHLE	HY-PRO
PI1015	HP500L5-##
PI1115	HP501L5-##
PI2115	HP500L5-##
PI2215	HP501L5-##
PI3115	HP500L5-##
PI3215	HP501L5-##
PI4115	HP500L5-##
PI4215	HP500L5-##
PI8215	HP500L5-##
PI8315	HP500L5-##
PI8415	HP500L5##
PI8515	HP500L5-##
PI9115	HP500L5-##

Water removal and Dynafuzz media also available.  
Call or consult the Hy-Pro on line interchange guide  
at [www.filterelement.com](http://www.filterelement.com)

### Fluid Compatibility

Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 141 SSU, and specific gravity = 0.86. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:  
**DP element = DP curve x Actual Viscosity/141 x Actual SG/0.86**

table 1

table 2

table 3

# HP50 \_\_ L5 - \_\_ \_\_

table 1	
code	collapse
0	450 psid
1	3000 psid

table 2	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B10[c] = 1000 (B10 = 200)
25	B22[c] = 1000 (B25 = 200)
40	B40 = 200 or 40u nominal wire mesh (media selection)
74	74u nominal wire mesh
149	149u nominal wire mesh

table 3	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

Hy-Pro filters are tested to the latest industry standard ISO16889 (replacing ISO4572) resulting in A new scale for defining particle sizes and determining filtration ratio (formerly known as beta ratio)

New (ISO16889) vs Old (ISO4572) size comparison

Bx(c)=1000 (ISO16889)	2.5	5	7	12	22
Bx=200 (ISO4572)	<1	3	6	12	25

