

# HP170/171 Series

interchanges Parker 25P series

## Hy-Pro G6 Dualglass High Performance Filter Elements



### 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

### Performance

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

Element collapse HP170 = 290 psid (20 bar)  
HP171 = 3000 psid (210 bar)

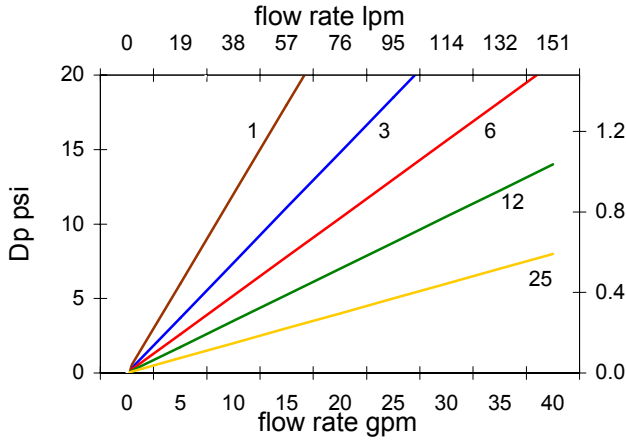
### Hy-Pro HP170 and HP171 series elements interchange Parker elements used in the 25P-1 and 25P-2 housing series.

Available media selections include G5 Dualglass, Stainless steel wire mesh, Water removal media, and Dynafuzz (stainless steel fiber media). See ordering information on reverse side for part numbers/codes.

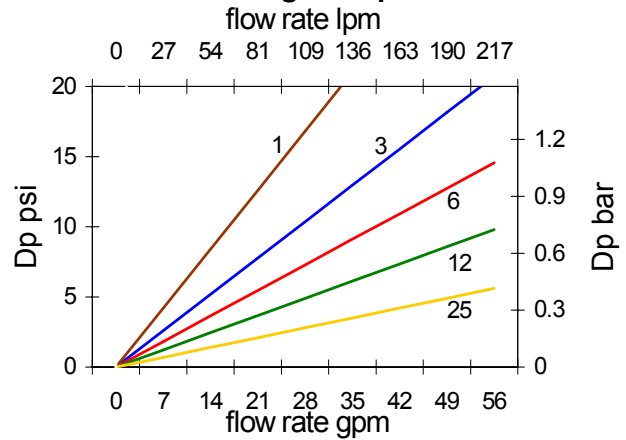
### Fluid Compatibility

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

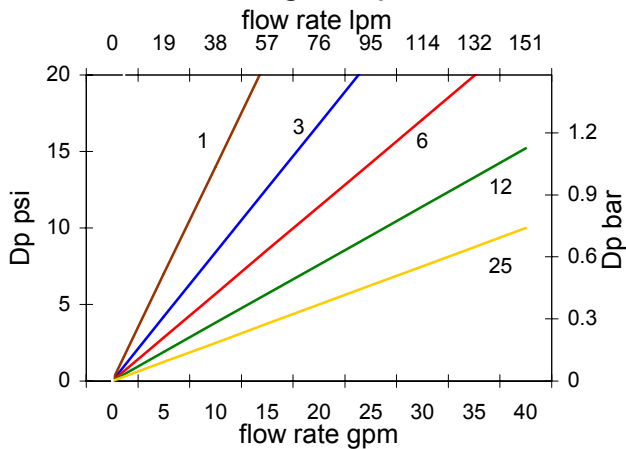
**HP170L5 Dualglass Dp vs flow rate**



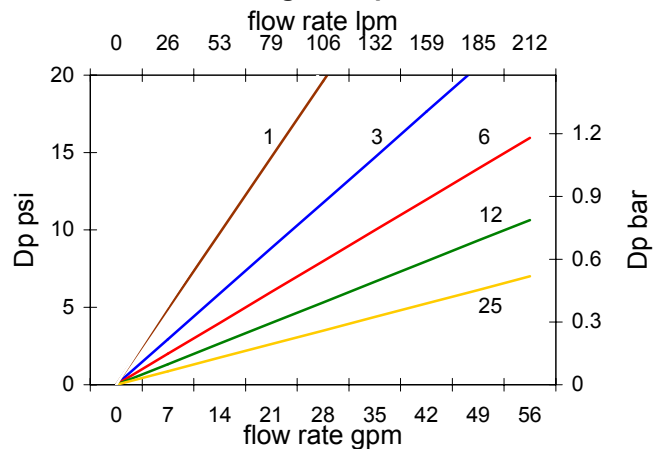
**HP170L10 Dualglass Dp vs flow rate**



**HP171L5 Dualglass Dp vs flow rate**



**HP171L10 Dualglass Dp vs flow rate**



**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      table 4      table 5

**HP17 \_ L \_ - \_ \_ \_**

table 1	
code	collapse
0	290 psid
1	3000 psid

table 2	
code	length
5	5 inch
10	10 inch

table 3	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
12	B12[c] = 1000 (B12 = 200)
17	B15[c] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

table 4	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 5	
code	seal
B	Nitrile
V	Fluoro
E	EPR

Hy-Pro filters are tested to the latest industry standard ISO16889 (replacing ISO4572) resulting in A new scale for defining particle sizes and determining a 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

