

# Product Catalogue



# HP03DH/03DN

Interchanges for Hycon/Hydac  
0030D(BH3HC,BHHC,BN3HC,BNHC)

## 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 HP03DH = 3000 psid (210 bar)  
HP03DN = 450 psid (31 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0030D003BH3HC	HP03DHL4-3MB
0030D003BHHC	HP03DHL4-3MB
0030D003BN3HC	HP03DNL4-3MB
0030D003BNHC	HP03DNL4-3MB
0030D005BH3HC	HP03DHL4-6MB
0030D005BHHC	HP03DHL4-6MB
0030D005BN3HC	HP03DNL4-6MB
0030D005BNHC	HP03DNL4-6MB
0030D010BH3HC	HP03DHL4-12MB
0030D010BHHC	HP03DHL4-12MB
0030D010BN3HC	HP03DNL4-12MB
0030D010BNHC	HP03DNL4-12MB
0030D020BH3HC	HP03DHL4-25MB
0030D020BHHC	HP03DHL4-25MB
0030D020BN3HC	HP03DNL4-25MB
0030D020BNHC	HP03DHL4-25MB
0030D025W	HP03DNL4-25WB
0030D025W/HC	HP03DNL4-25WB
0030D074W	HP03DNL4-74WB
0030D074W/HC	HP03DNL4-74WB
0030D149W	HP03DNL4-149WB
0030D149W/HC	HP03DNL4-149WB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

\*For Viton seals (where p/n ends /-V) replace the B in Hy-Pro p/n with a V.

\*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)

### 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

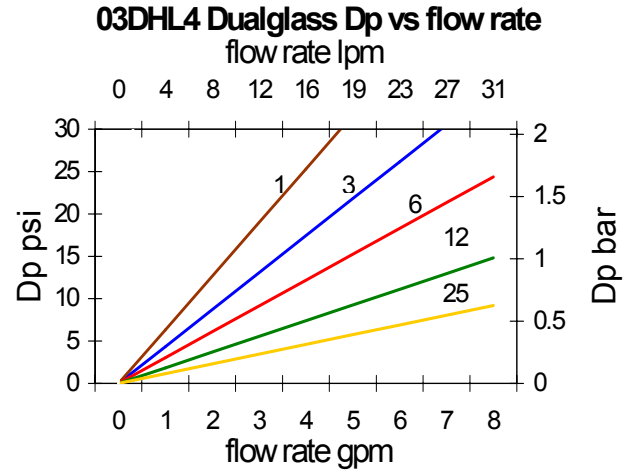
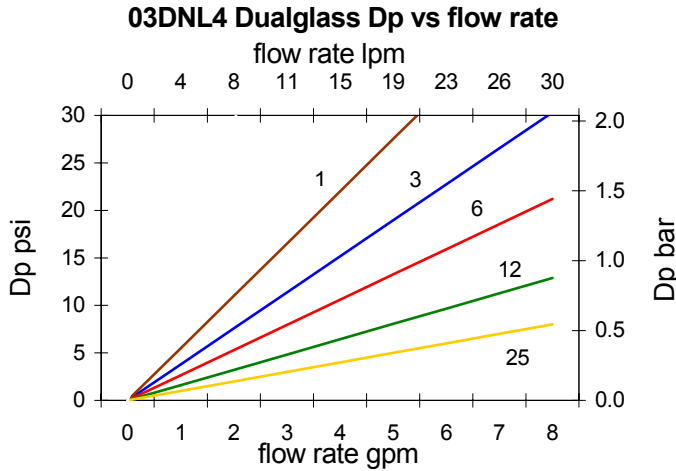
DFE rated elements perform true to rating even under demanding variable flow and vibration conditions. Today's industrial and mobile hydraulic circuits require elements that deliver specified cleanliness under all circumstances. Wire mesh supports the media to ensure against cyclical flow fatigue, temperature,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

### 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:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/141 \times \text{Actual SG}/0.86$$

table 1

table 2

table 3

table 4

# HP03D \_\_ L4 - \_\_ \_\_ \_\_

table 1	
code	collapse rating
H	3000 psid
N	450 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)
12	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
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

table 4	
code	seal
B	Nitrile(buna)
V	Fluorocarbon
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



# HP06DH Series

Interchanges for Hycon/Hydac  
0060D/0110D/0140D pressure series

## 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 3000 psid (210 bar)

### 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

### Fluid Compatibility

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

### Interchange

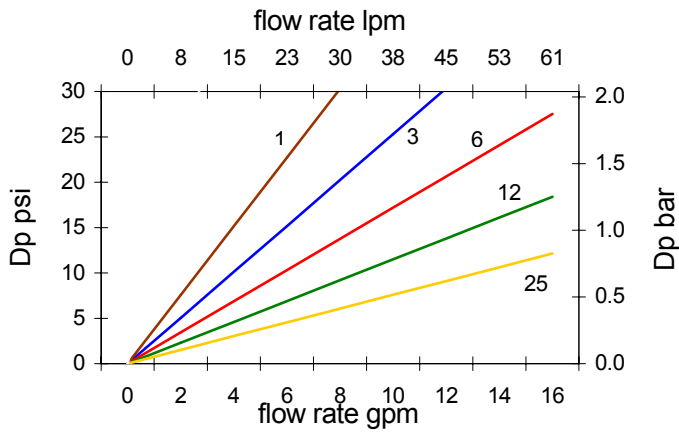
Hydac/Hycon	Hy-Pro
0060D003BH3HC	HP06DHL4-3MB
0060D003BHHC	HP06DHL4-3MB
0060D005BH	HP06DHL4-6MSB
0060D005BH3HC	HP06DHL4-6MB
0060D005BHHC	HP06DHL4-6MB
0060D010BH	HP06DHL4-12MSB
0060D010BH3HC	HP06DHL4-12MB
0060D010BHHC	HP06DHL4-12MB
0060D020BH3HC	HP06DHL4-25MB
0060D020BHHC	HP06DHL4-25MB
0110D003BH3HC	HP06DHL7-3MB
0110D003BHHC	HP06DHL7-3MB
0110D005BH3HC	HP06DHL7-6MB
0110D005BHHC	HP06DHL7-6MB
0110D010BH3HC	HP06DHL7-12MB
0110D010BHHC	HP06DHL7-12MB
0110D020BH3HC	HP06DHL7-25MB
0110D020BHHC	HP06DHL7-25MB
0140D003BH3HC	HP06DHL8-3MB
0140D003BHHC	HP06DHL8-3MB
0140D005BH3HC	HP06DHL8-6MB
0140D005BHHC	HP06DHL8-6MB
0140D010BH3HC	HP06DHL8-12MB
0140D010BHHC	HP06DHL8-12MB
0140D020BH3HC	HP06DHL8-25MB
0140D020BHHC	HP06DHL8-25MB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

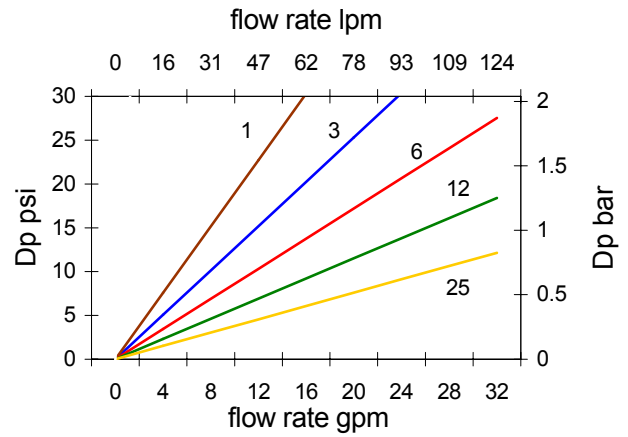
\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

\*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)

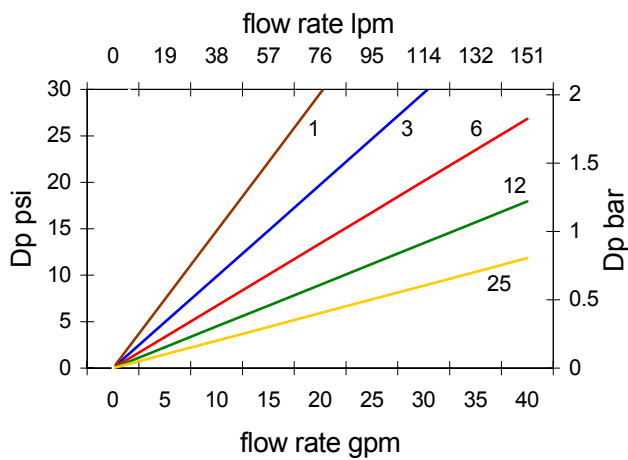
### L4 Dualglass Dp vs flow rate



### L7 Dualglass Dp vs flow rate



### L8 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP06DHL - - - - -

code	length
4	single
7	double
8	7 inch
10	extended

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

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

code	seal
B	Nitrile(buna)
V	Fluorocarbon
E	EPR

code	design option
	standard design
S	reduced capacity design smaller OD, larger OAL

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





# HP06DN Series

Interchanges for Hycon/Hydac  
0060D/0110D/0140D pressure series

## 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 450 psid (31 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0060D003BN3HC	HP06DNL4-3MB
0060D003BNHC	HP06DNL4-3MB
0060D005BN3HC	HP06DNL4-6MB
0060D005BNHC	HP06DNL4-6MB
0060D010BN3HC	HP06DNL4-12MB
0060D010BNHC	HP06DNL4-12MB
0060D020BN3HC	HP06DNL4-25MB
0060D020BNHC	HP06DNL4-25MB
0110D003BN3HC	HP06DNL7-3MB
0110D003BNHC	HP06DNL7-3MB
0110D005BN3HC	HP06DNL7-6MB
0110D005BNHC	HP06DNL7-6MB
0110D010BN3HC	HP06DNL7-12MB
0110D010BNHC	HP06DNL7-12MB
0110D020BN3HC	HP06DNL7-25MB
0110D020BNHC	HP06DNL7-25MB
0140D003BN3HC	HP06DNL8-3MB
0140D003BNHC	HP06DNL8-3MB
0140D005BN3HC	HP06DNL8-6MB
0140D005BNHC	HP06DNL8-6MB
0140D010BN3HC	HP06DNL8-12MB
0140D010BNHC	HP06DNL8-12MB
0140D020BN3HC	HP06DNL8-25MB
0140D020BNHC	HP06DNL8-25MB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

\*Water removal and Dynafuzz media also available. Call or consult the Hy-Pro on line interchange guide

### 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.

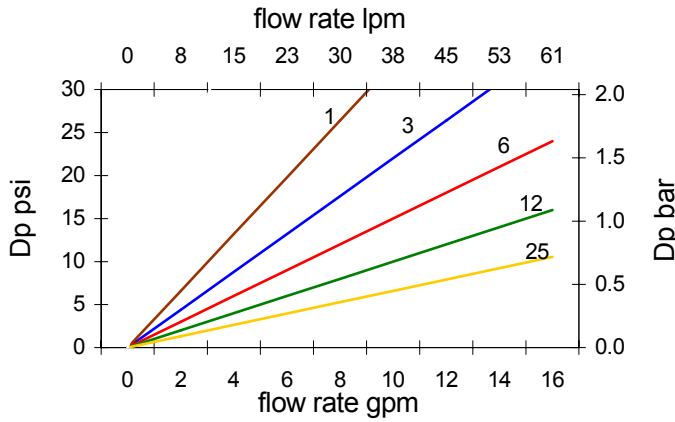
### Tested to ISO quality standards

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

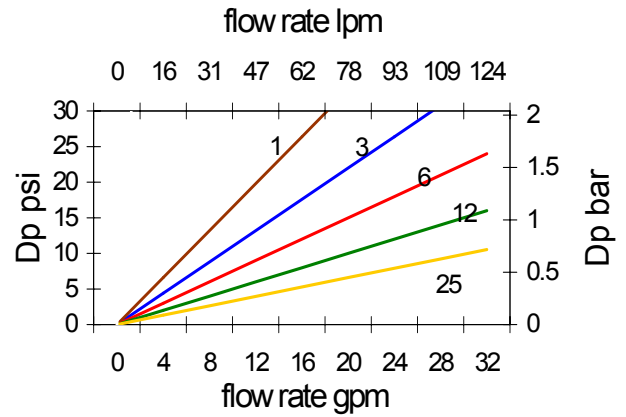
### Fluid Compatibility

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

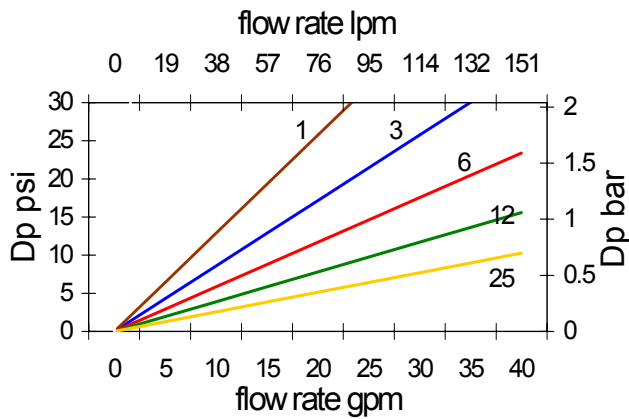
### L4 Dualglass Dp vs flow rate



### L7 Dualglass Dp vs flow rate



### L8 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP06DNL - - - - -

table 1	code	length
	4	single
	7	double
	8	7 inch
	10	extended

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

table 5	code	seal
	B	Nitrile(buna)
	V	Fluorocarbon
	E	EPR

table 4	code	design option
	omit	standard design
	S	reduced capacity design smaller OD, larger OAL

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



# HP06RN Series

Interchanges Hydac 0060/0110R

## 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.

### Bypass Valve

Zero leak, soft seat design eliminates inherently leaky plastic to plastic sealing surfaces

### Tested to ISO quality standards

ISO2941	Collapse and burst resistance
ISO2942	Fabrication and Integrity test
ISO2943	Material compatibility with fluids
ISO3724	Flow fatigue characteristics
ISO3968	Pressure drop vs. flow rate
ISO16889	Multi-pass performance testing

### Performance

Temperature:	-45f to 225f, -43c to 107c (buna)
	-20f to 250f, -29c to 120c (viton)
Max flow rate	29 gpm (110 lpm)
Element collapse	250 psid (17 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0060R003BN3HC	HP06RNL4-3MB
0060R003BNHC	HP06RNL4-3MB
0060R005BN3HC	HP06RNL4-6MB
0060R005BNHC	HP06RNL4-6MB
0060R010BN3HC	HP06RNL4-12MB
0060R010BNHC	HP06RNL4-12MB
0060R020BN3HC	HP06RNL4-25MB
0060R020BNHC	HP06RNL4-25MB
0110R003BN3HC	HP06RNL7-3MB
0110R003BNHC	HP06RNL7-3MB
0110R005BN3HC	HP06RNL7-6MB
0110R005BNHC	HP06RNL7-6MB
0110R010BN3HC	HP06RNL7-12MB
0110R010BNHC	HP06RNL7-12MB
0110R020BN3HC	HP06RNL7-25MB
0110R020BNHC	HP06RNL7-25MB

\*More interchanges in the interchange guide or go to [www.filterelement.com](http://www.filterelement.com).

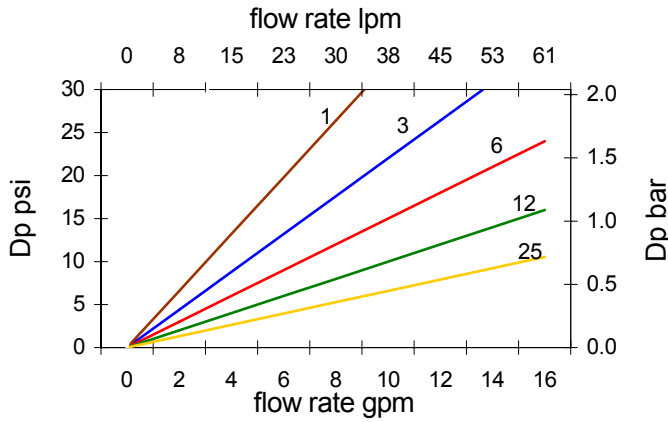
\*for viton seals replace "B" in HP no. with "V"  
 \*other media types than "BNHC" or "BN3HC" available are "W", "BN", "P" call or consult the Hy-Pro on line interchange guide at

### Fluid Compatibility

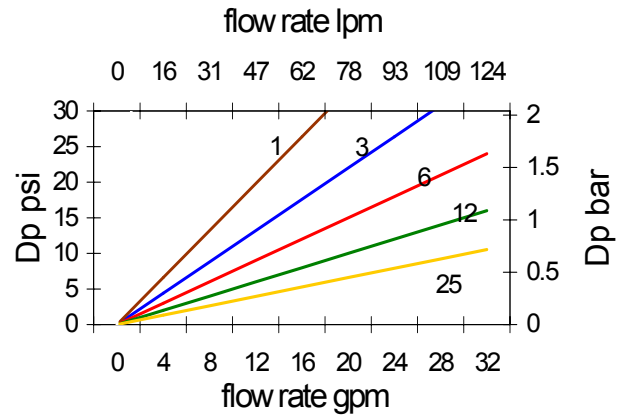
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



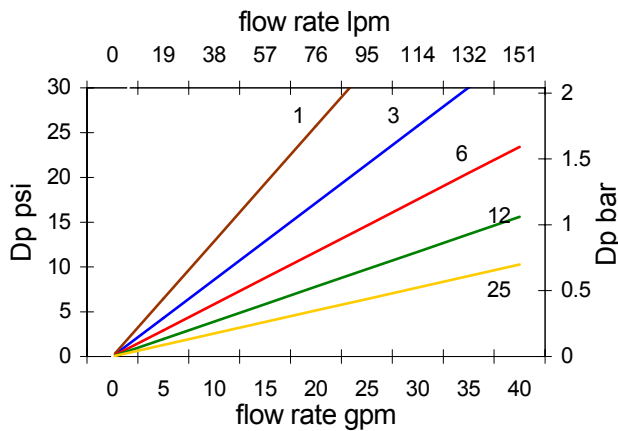
### L4 Dualglass Dp vs flow rate



### L7 Dualglass Dp vs flow rate



### L8 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1    table 2    table 3    table 4    table 5    table 6    table 7

# HP06RNL

code	length
4	single
7	double
8	8 inch

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

code	Element OD
omit	Standard
S	reduced capacity

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
12	B10[c] = 1000 (B10 = 200)
17	B15[c] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal 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 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

code	bypass
omit	43psid bypass
C	blocked bypass

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

code	special option
PC	special coating for HWBF
87	87 psid bypass





# HP101/102 Series

Interchanges industry standard element 6" x 18" with flat gaskets

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

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

Element collapse 150 psid (10 bar)

### 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.

### Pleated Element Design

Pleated element design offers increased dirt holding capacity and can handle higher flow rates than "composite type" elements.

### Fluid Compatibility

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

### Interchanges by Series Only (See interchange guide for exact cross references and complete part numbers).

- PALL HC2618 series
- PALL HC0101 series
- Industry standard 618, 718 size
- Hilco 618, 718
- Commercial
- Filterite
- Parker Hannifin
- Cuno

Available seal materials are Nitrile, Fluorocarbon, EPR, and Silicone.

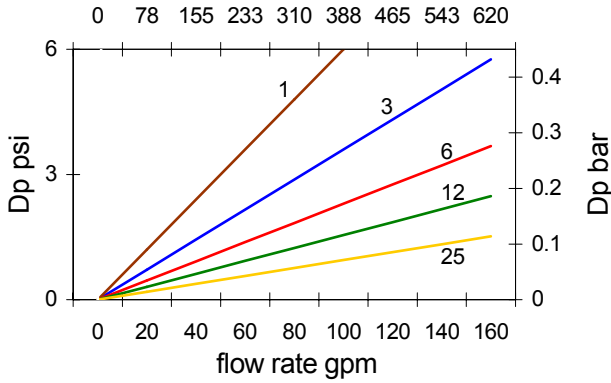
Wire mesh, water removal, and Dynafuzz media available in addition to G5 Dualglass. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

### Tested to ISO quality standards

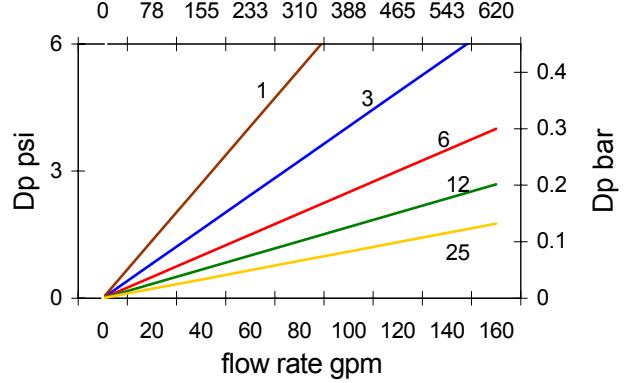
- ISO 2941 Collapse and burst resistance
- ISO 2942 Fabrication and Integrity test
- ISO 2943 Material compatibility with fluids
- ISO 3724 Flow fatigue characteristics
- ISO 3968 Pressure drop vs. flow rate
- ISO 16889 Multi-pass performance testing



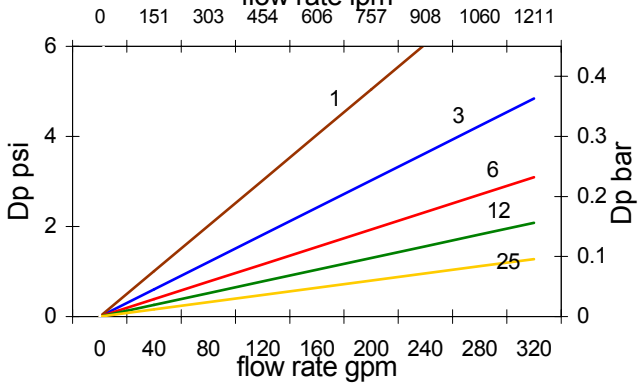
**101L18 Dualglass Dp vs flow rate**  
flow rate lpm



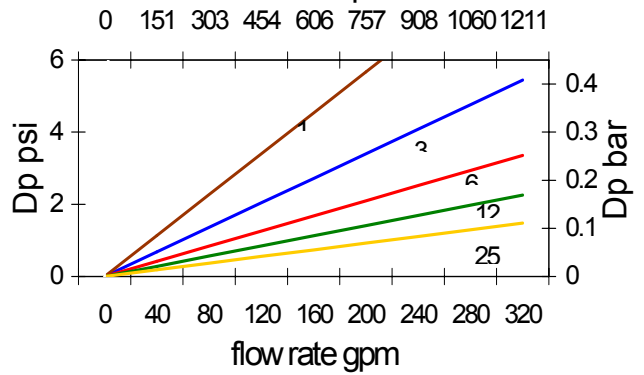
**102L18 Dualglass Dp vs flow rate**  
flow rate lpm



**101L36 Dualglass Dp vs flow rate**  
flow rate lpm



**102L36 Dualglass Dp vs flow rate**  
flow rate lpm



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1    table 2    table 3    table 4    table 5    table 6

# HP10    L    -    -    -    -

table 1	
code	media type
1	High capacity
2	Low capacity

table 3	
code	length
7	7 inch
17	17 inch
18	single
22	22 inch
29	29 inch
36	double

table 4	
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
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

table 5	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
W	wire mesh

table 2	
code	Element ID
omit	Standard
3.18	3.188" ID
3.5	3.50" ID

table 6	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR
S	Silicone

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



# HP10H/10N Series

interchanges Taisei Kogyo  
16A 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 HP10N = 450 psid (30 bar)  
HP10H = 3000 psid (210 bar)

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

P-G-UL-16A HP10NL10  
P-G-UL-16A-##MH HP10HL10

P-F-UL-16A HP10NL10  
P-F-UL-16A-##MH HP10HL10

P-UL-16A HP10NL10  
P-UL-16A-##MH HP10HL10

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

### Media

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

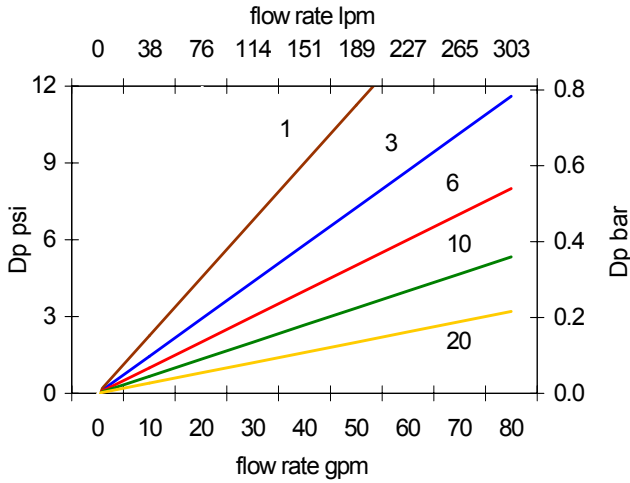
### Dynamic Filter Efficiency

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.

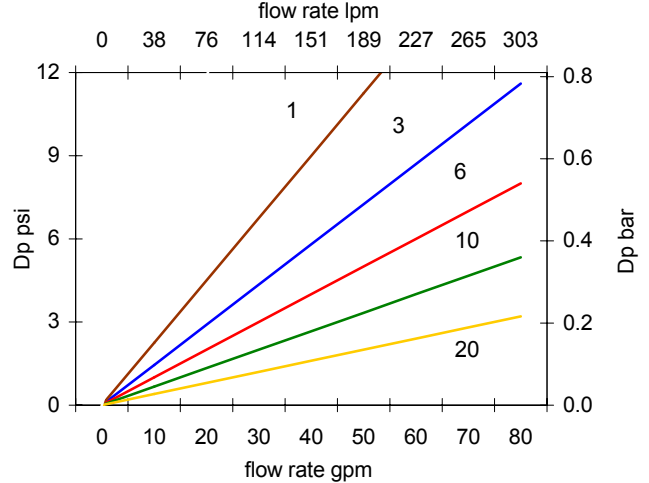
### Tested to ISO quality standards

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

HP10NL10 G6 Dualglass Dp vs flow



HP10HL10 G6 Dualglass Dp vs flow



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1

table 2

table 3

table 4

# HP10 \_\_ L10 - \_\_ \_\_ \_\_

table 1	
code	collapse
N	450 psid
H	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	B12[c] = 1000 (B12 = 200)
20	B22[c] = 1000 (B25 = 200)
40	40u nominal wire mesh
50	50u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

table 5	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
W	wire mesh

Hy-Pro filters are tested to the latest industry standard ISO16889 (replacing ISO4572) resulting in 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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR





# HP1200/1201

PTI PG-120-#H and PG-120-#U,  
Mahle PI-##05 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 HP1200 = 450 psid (30 bar)  
HP1201 = 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

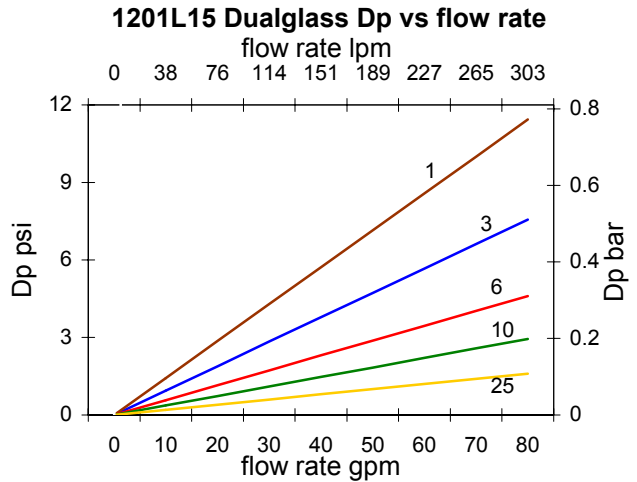
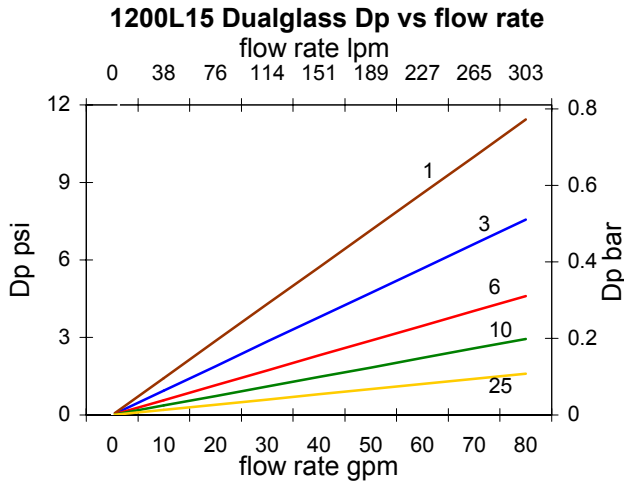
PTI	HY-PRO
PG-120-#H	HP1200L15-##
PG-120-#U	HP1201L15-##

MAHLE	HY-PRO
PI1045	HP1200L15-##
PI1145	HP1200L15-##
PI2145	HP1200L15-##
PI2245	HP1200L15-##
PI3145	HP1200L15-##
PI3245	HP1200L15-##
PI4145	HP1200L15-##
PI4245	HP1200L15-##
PI8245	HP1200L15-##
PI8345	HP1200L15-##
PI8445	HP1200L15-##
PI8545	HP1200L15-##
PI9145	HP1200L15-##

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

# HP120 \_\_ L15 - \_\_ \_\_

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) or 25u nominal mesh
40	40u nominal mesh
50	50u nominal mesh
74	74u nominal mesh
100	100u nominal mesh
149	149u nominal mesh

table 3	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
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 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





# HP12H/12N Series

interchanges Taisei Kogyo  
20A, 24A 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 HP12N = 450 psid (30 bar)  
HP12H = 3000 psid (210 bar)

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

P-G-UL-20A	HP12NL12
P-G-UL-24A	HP12NL12
P-G-UL-20A-##MH	HP12HL12
P-G-UL-24A-##MH	HP12HL12

P-F-UL-20A	HP12NL12
P-F-UL-24A	HP12NL12
P-F-UL-20A-##MH	HP12HL12
P-F-UL-24A-##MH	HP12HL12

P-UL-20A	HP12NL12
P-UL-24A	HP12NL12
P-UL-20A-##MH	HP12HL12
P-UL-24A-##MH	HP12HL12

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

### 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

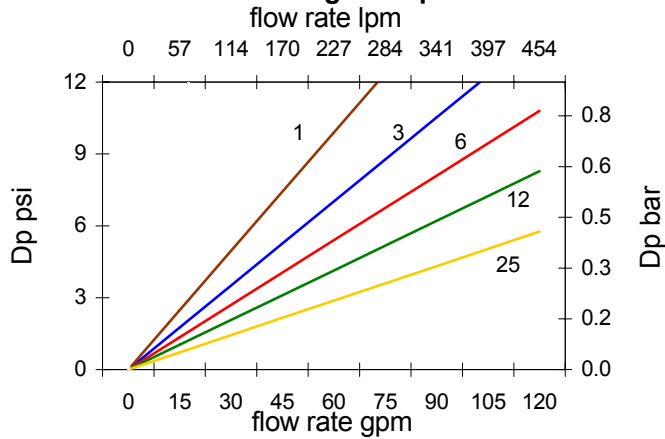
DFE rated elements perform true to rating even under demanding variable flow and vibration conditions. Today's industrial and mobile hydraulic circuits require elements that deliver specified cleanliness under all circumstances. Wire mesh supports the media to ensure against cyclical flow fatigue, temperature,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

### Tested to ISO quality standards

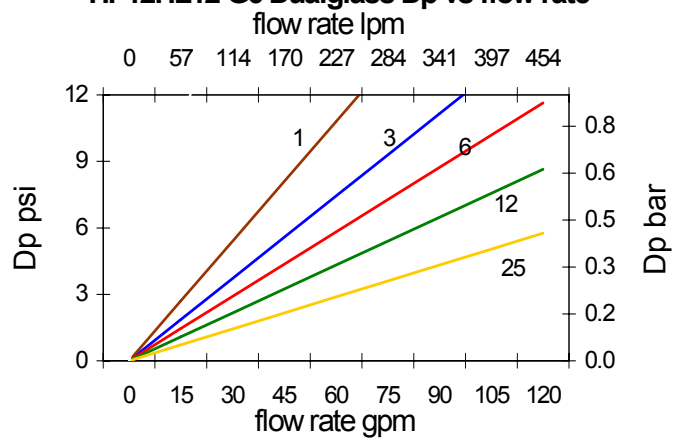
ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing



**HP12NL12 G6 Dualglass Dp vs flow rate**



**HP12HL12 G6 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

**HP12 \_\_ L12 - \_\_ \_\_ \_\_**

table 1	
code	collapse
N	450 psid
H	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	B12[c] = 1000 (B12 = 200)
20	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
50	50u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

table 3	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
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 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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR





# HP13H/13N Series

interchanges MP Filtri HP1351, 1352

## 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 HP13N = 450 psid (30 bar)  
HP13H = 3000 psid (210 bar)

### 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

### Fluid Compatibility

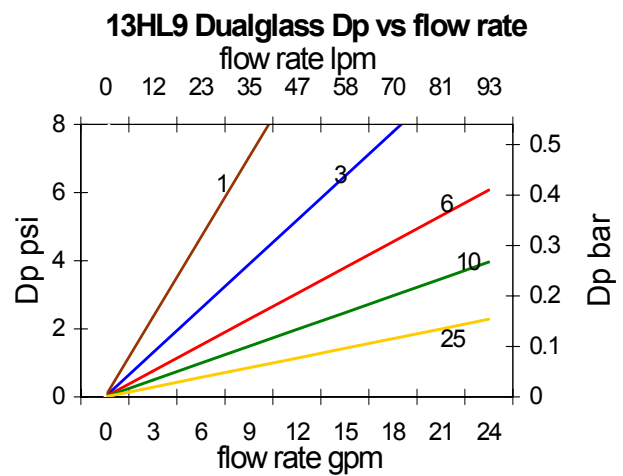
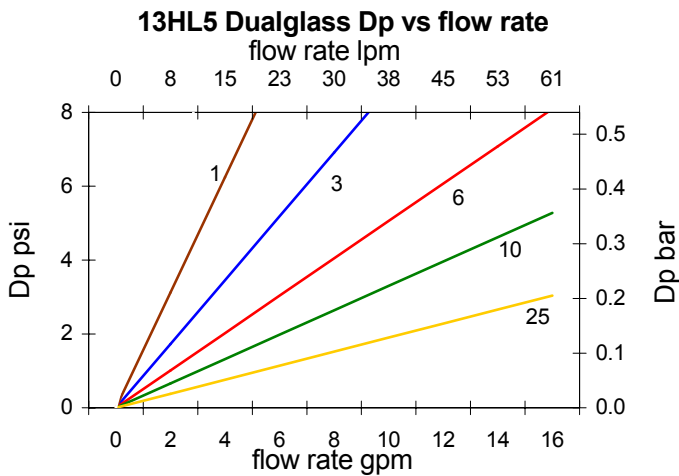
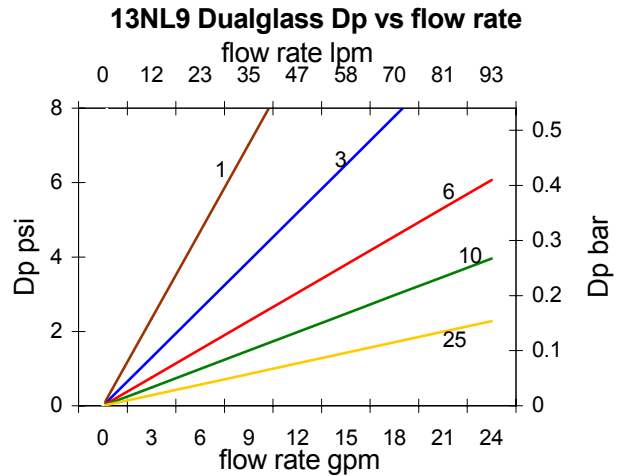
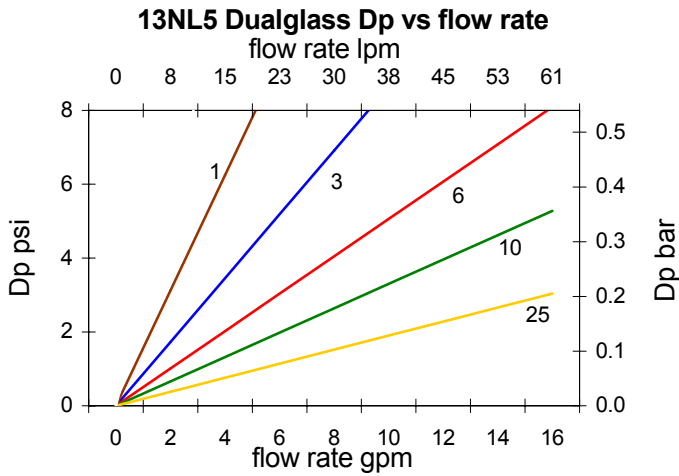
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF

### Interchange

HP1351A03AH	HP13HL5-3MB
HP1351A03AN	HP13NL5-3MB
HP1531A06AH	HP13HL5-6MB
HP1351A06AN	HP13NL5-6MB
HP1351A10AH	HP13HL5-10MB
HP1351A10AN	HP13NL5-10MB
HP1531A25AH	HP13HL5-25MB
HP1351A25AN	HP13NL5-25MB
HP1351M10AN	HP13NL5-25WB
HP1351M25AN	HP13NL5-25WB
HP1351M60AN	HP13NL5-60WB
HP1352A03AH	HP13HL9-3MB
HP1352A03AN	HP13NL9-3MB
HP1352A06AH	HP13HL9-6MB
HP1352A06AN	HP13NL9-6MB
HP1352A10AH	HP13HL9-10MB
HP1352A10AN	HP13NL9-10MB
HP1352A25AH	HP13HL9-25MB
HP1352A25AN	HP13NL9-25MB
HP1352M10AN	HP13NL9-25WB
HP1352M25AN	HP13NL9-25WB
HP1352M60AN	HP13NL9-60WB

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

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)



### 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

# HP13 \_ \_ L \_ \_ - \_ \_ \_ \_ \_

table 1	
code	collapse
N	450 psid
H	3000 psid

table 2	
code	length
5	single
9	double

table 3	
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)
10W	10u nominal wire mesh
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
40	40u nominal wire mesh
60	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
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





# HP150/151 Series

PTI PG-015-#H and PG-015-#U,  
Mahle PI-##05 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 HP150 = 450 psid (30 bar)  
HP151 = 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	Multipass performance testing

PTI	HY-PRO
PG-015-#H	HP150L4-##
PG-015-#U	HP151L4-##

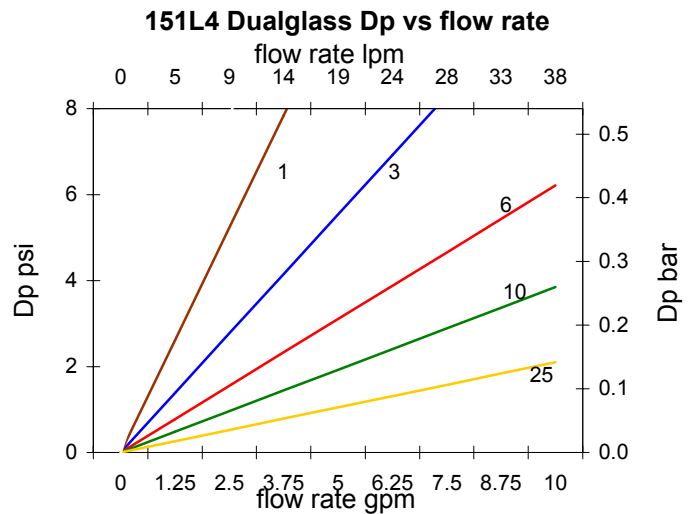
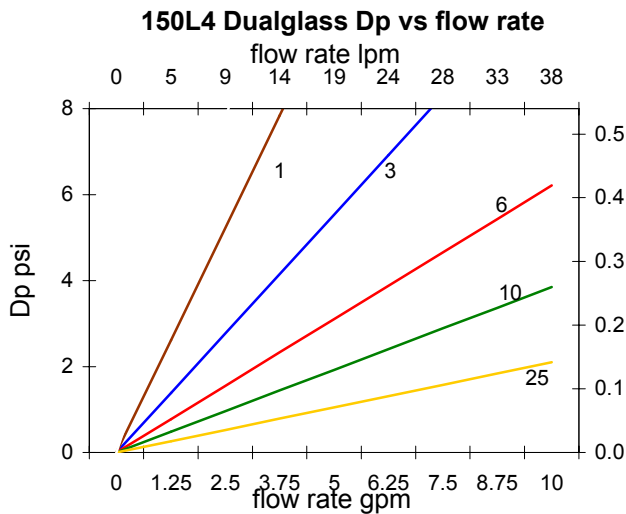
MAHLE	HY-PRO
PI1005	HP150L4-##
PI1105	HP151L4-##
PI2105	HP150L4-##
PI2205	HP151L4-##
PI3105	HP150L4-##
PI3205	HP151L4-##
PI4105	HP150L4-##
PI4205	HP150L4-##
PI8205	HP150L4-##
PI8305	HP150L4-##
PI8405	HP150L4-##
PI8505	HP150L4-##
PI9105	HP150L4-##

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

# HP15 \_\_ L4 - \_\_ \_\_

code	collapse
0	450 psid
1	3000 psid

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) or 25u nominal mesh
40	40u nominal mesh
50	50u nominal mesh
74	74u nominal mesh
100	100u nominal mesh
149	149u nominal mesh

code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
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 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





# HP16DH Series

Interchanges for Hycon/Hydac  
0160D/0240D/0280D pressure series

## 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 3000 psid (210 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0160D003BH3HC	HP16DHL5-3MB
0160D003BHHC	HP16DHL5-3MB
0160D005BH3HC	HP16DHL5-6MB
0160D005BHHC	HP16DHL5-6MB
0160D010BH3HC	HP16DHL5-12MB
0160D010BHHC	HP16DHL5-12MB
0160D020BH3HC	HP16DHL5-25MB
0160D020BHHC	HP16DHL5-25MB
0240D003BH3HC	HP16DHL8-3MB
0240D003BHHC	HP16DHL8-3MB
0240D005BH3HC	HP16DHL8-6MB
0240D005BHHC	HP16DHL8-6MB
0240D010BH3HC	HP16DHL8-12MB
0240D010BHHC	HP16DHL8-12MB
0240D020BH3HC	HP16DHL8-25MB
0240D020BHHC	HP16DHL8-25MB
0280D003BH3HC	HP16DHL14-3MB
0280D003BHHC	HP16DHL14-3MB
0280D005BH3HC	HP16DHL14-6MB
0280D005BHHC	HP16DHL14-6MB
0280D010BH3HC	HP16DHL14-12MB
0280D010BHHC	HP16DHL14-12MB
0280D020BH3HC	HP16DHL14-25MB
0280D020BHHC	HP16DHL14-25MB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

\*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)

### 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.

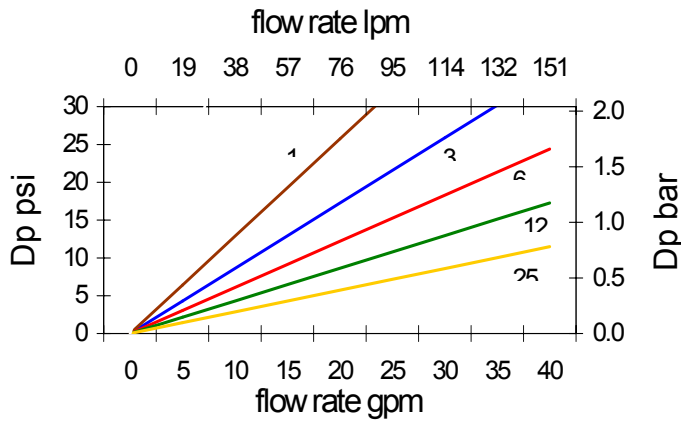
### Tested to ISO quality standards

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

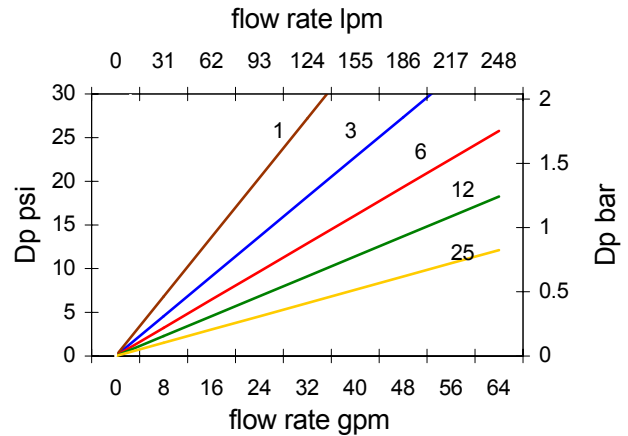
### Fluid Compatibility

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

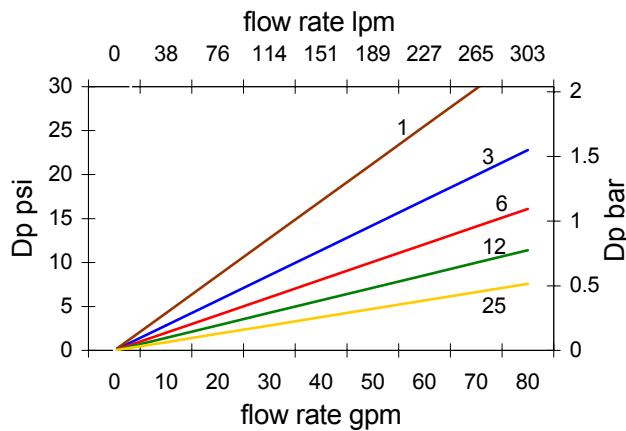
### L5 Dualglass Dp vs flow rate



### L8 Dualglass Dp vs flow rate



### L14 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP16DHL - - - - -

code	length
5	single
8	double
14	extended

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

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

code	seal
B	Nitrile(buna)
V	Fluorocarbon
E	EPR

code	design option
omit	standard design
S	reduced capacity design smaller OD, larger OAL

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





# HP16DN Series

Interchanges for Hycon/Hydac  
0160D/0240D/0280D pressure series

## 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 450 psid (30 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0160D003BN3HC	HP16DNL5-3MB
0160D003BNHC	HP16DNL5-3MB
0160D005BN3HC	HP16DNL5-6MB
0160D005BNHC	HP16DNL5-6MB
0160D010BN3HC	HP16DNL5-12MB
0160D010BNHC	HP16DNL5-12MB
0160D020BN3HC	HP16DNL5-25MB
0160D020BNHC	HP16DNL5-25MB
0240D003BN3HC	HP16DNL8-3MB
0240D003BNHC	HP16DNL8-3MB
0240D005BN3HC	HP16DNL8-6MB
0240D005BNHC	HP16DNL8-6MB
0240D010BN3HC	HP16DNL8-12MB
0240D010BNHC	HP16DNL8-12MB
0240D020BN3HC	HP16DNL8-25MB
0240D020BNHC	HP16DNL8-25MB
0280D003BN3HC	HP16DNL14-3MB
0280D003BNHC	HP16DNL14-3MB
0280D005BN3HC	HP16DNL14-6MB
0280D005BNHC	HP16DNL14-6MB
0280D010BN3HC	HP16DNL14-12MB
0280D010BNHC	HP16DNL14-12MB
0280D020BN3HC	HP16DNL14-25MB
0280D020BNHC	HP16DNL14-25MB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

\*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)

### 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

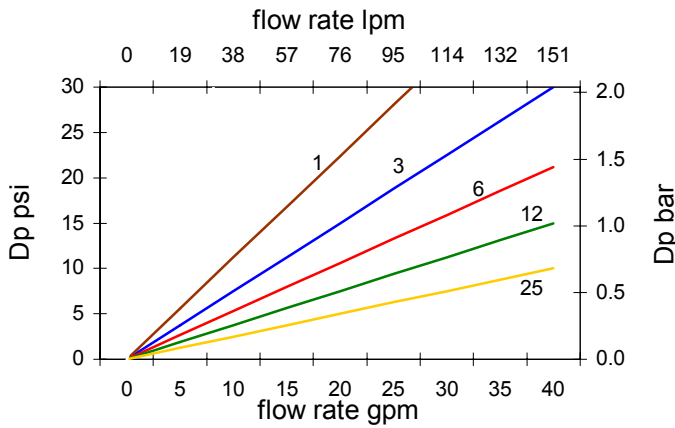
ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

### Fluid Compatibility

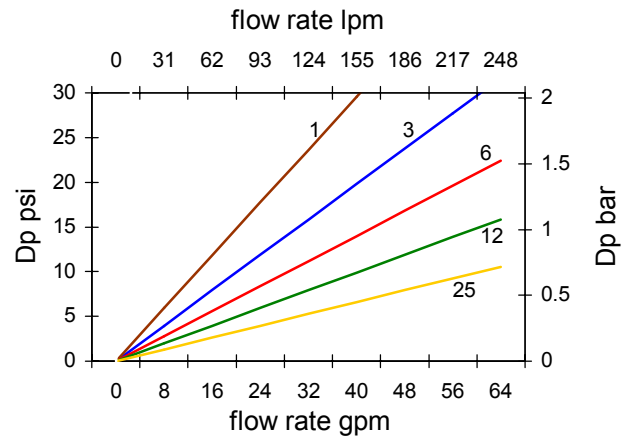
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



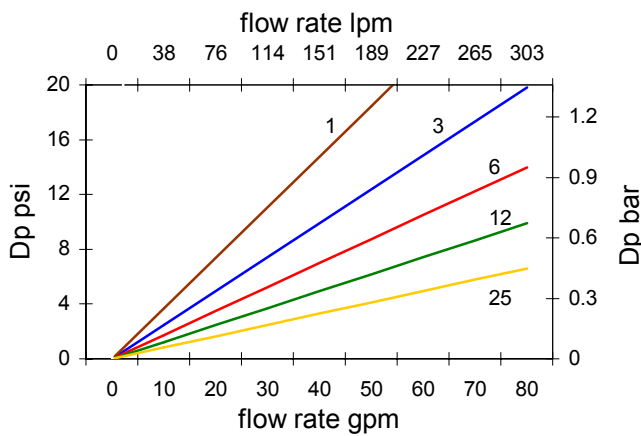
**L5 Dualglass Dp vs flow rate**



**L8 Dualglass Dp vs flow rate**



**L14 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP16DNL - - - - -

code	length
5	single
8	double
14	extended

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

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

code	seal
B	Nitrile(buna)
V	Fluorocarbon
E	EPR

code	design option
omit	standard design
S	reduced capacity design smaller OD, larger OAL

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





# HP16RN Series

Interchanges Hydac 0060/0110R

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature:	-45f to 225f, -43c to 107c (buna) -20f to 250f, -29c to 120c (viton)
Max flow rate	74 gpm (280 lpm)
Element collapse	250 psid (17 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0160R003BN3HC	HP16RNL5-3MB
0160R003BNHC	HP16RNL5-3MB
0160R005BN3HC	HP16RNL5-6MB
0160R005BNHC	HP16RNL5-6MB
0160R010BN3HC	HP16RNL5-12MB
0160R010BNHC	HP16RNL5-12MB
0160R020BN3HC	HP16RNL5-25MB
0160R020BNHC	HP16RNL5-25MB
0240R003BN3HC	HP16RNL8-3MB
0240R003BNHC	HP16RNL8-3MB
0240R005BN3HC	HP16RNL8-6MB
0240R005BNHC	HP16RNL8-6MB
0240R010BN3HC	HP16RNL8-12MB
0240R010BNHC	HP16RNL8-12MB
0240R020BN3HC	HP16RNL8-25MB
0240R020BNHC	HP16RNL8-25MB

\*for viton (Hydac ends /-V) seals replace "B" in HP no. with "V".

\*other media types than "BNHC" or "BN3HC" available are "W", "BN", "P", "P/HC" call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

### 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.

### Bypass Valve

Zero leak, soft seat design eliminates inherently leaky plastic to plastic sealing surfaces

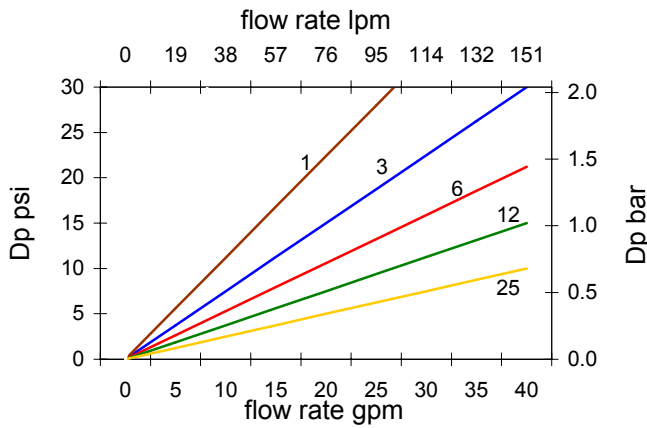
### Tested to ISO quality standards

ISO2941	Collapse and burst resistance
ISO2942	Fabrication and Integrity test
ISO2943	Material compatibility with fluids
ISO3724	Flow fatigue characteristics
ISO3968	Pressure drop vs. flow rate
ISO16889	Multi-pass performance testing

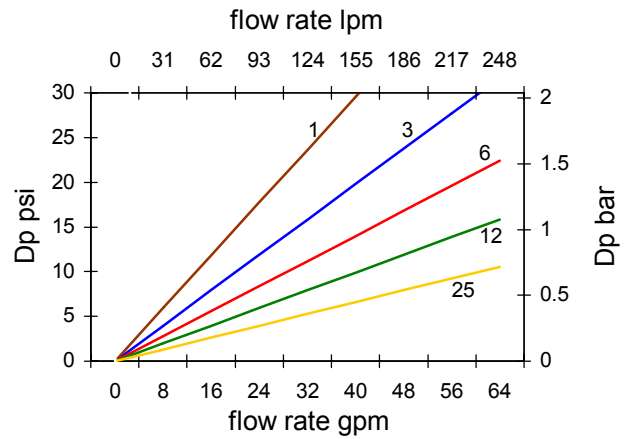
### Fluid Compatibility

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

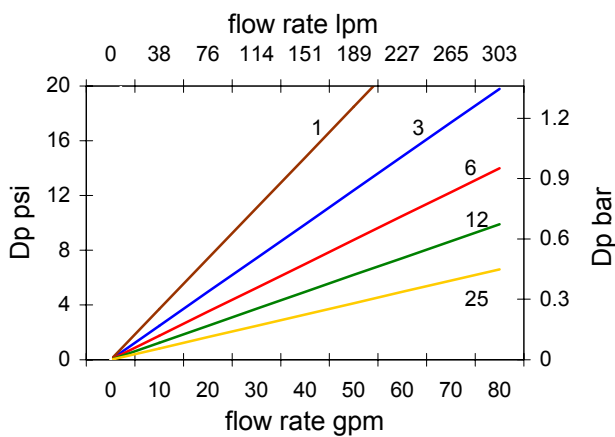
**L5 Dualglass Dp vs flow rate**



**L8 Dualglass Dp vs flow rate**



**L14 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 Vis/141 x SG/0.86**

table 1      table 2      table 3      table 4      table 5      table 6

# HP16RNL

code	length
5	single
8	double
14	extended

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
12	B10[c] = 1000 (B10 = 200)
17	B15[c] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

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

code	bypass
omit	With 43psid bypass valve
C	blocked bypass

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

code	special option
PC	special coating for HWBF
87	87 psid bypass

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



# HP170/171 Series

interchanges Parker 25P series

## 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 HP170 = 290 psid (20 bar)  
 HP171 = 3000 psid (210 bar)

### 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

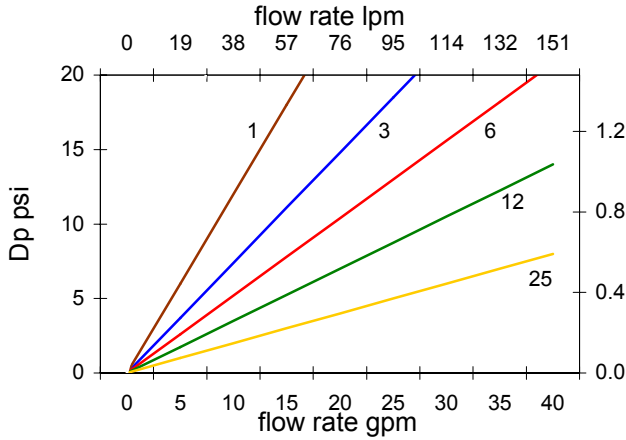
### Hy-Pro HP170 and HP171 series elements interchange Parker elements used in the 25P-1 and 25P-2 housing series.

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.

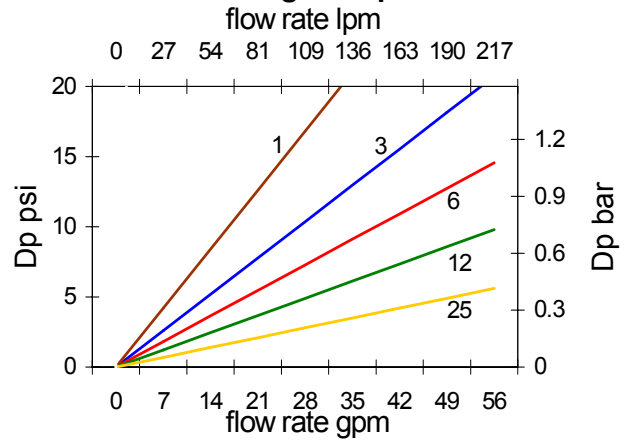
### Fluid Compatibility

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

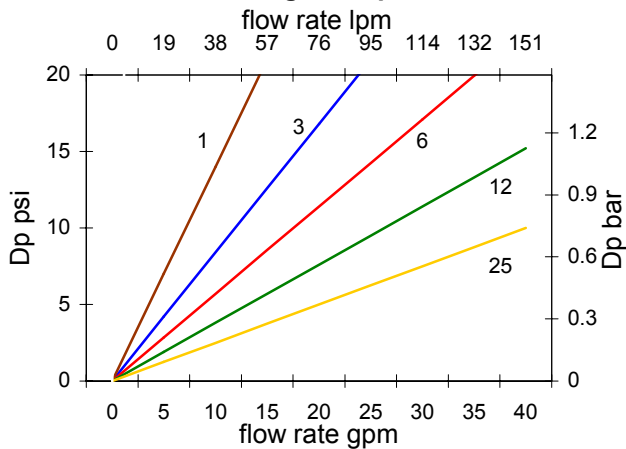
**HP170L5 Dualglass Dp vs flow rate**



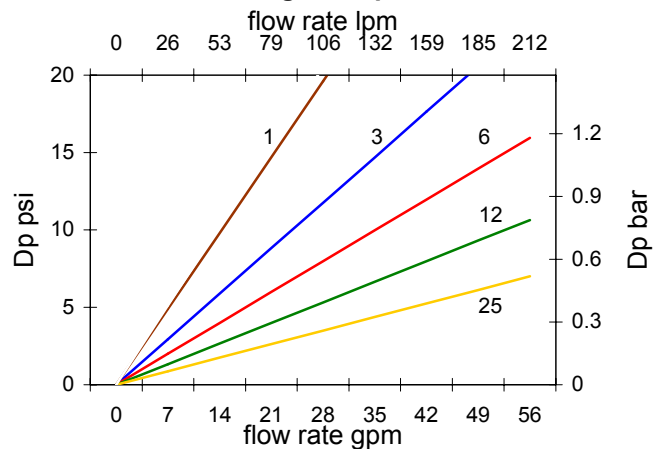
**HP170L10 Dualglass Dp vs flow rate**



**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





# HP190/191 Series

Interchanges element for Parker  
18P High Pressure Filters

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
-20f to 250f, -29c to 170c (viton)  
Element collapse  
190 = 300 psid (20 bar)  
191 = 2000 psid (141 bar)

### 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

### Interchange

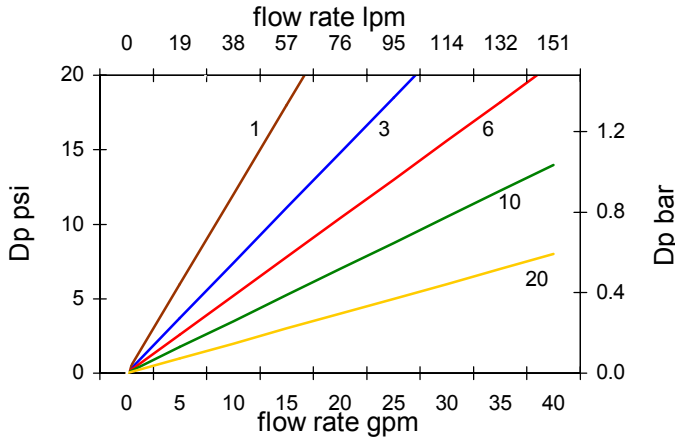
Parker	Hy-Pro	Parker	Hy-Pro
G04242	HP190L5-3MB	G0426	HP190L5-3MV
G04243	HP190L5-6MB	G0427	HP190L5-6MV
G04244	HP190L5-10MB	G0248	HP190L5-10MV
G04245	HP190L5-20MB	G0249	HP190L5-20MV
G04250	HP190L9-3MB	G04254	HP190L9-3MV
G04251	HP190L9-6MB	G04255	HP190L9-6MV
G04252	HP190L9-10MB	G04256	HP190L9-10MV
G04253	HP190L9-20MB	G04257	HP190L9-20MV
G04290	HP191L5-3MB	G04294	HP191L5-3MV
G04291	HP191L5-6MB	G04295	HP191L5-6MV
G04292	HP191L5-10MB	G04296	HP191L5-10MV
G04293	HP191L5-20MB	G04297	HP191L5-20MV
G04298	HP191L9-3MB	G04302	HP191L9-3MV
G04299	HP191L9-6MB	G04303	HP191L9-6MV
G04300	HP191L9-10MB	G04304	HP191L9-10MV
G04301	HP191L9-20MB	G04305	HP191L9-20MV

Also available in stainless steel mesh media and Dynafuzz. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

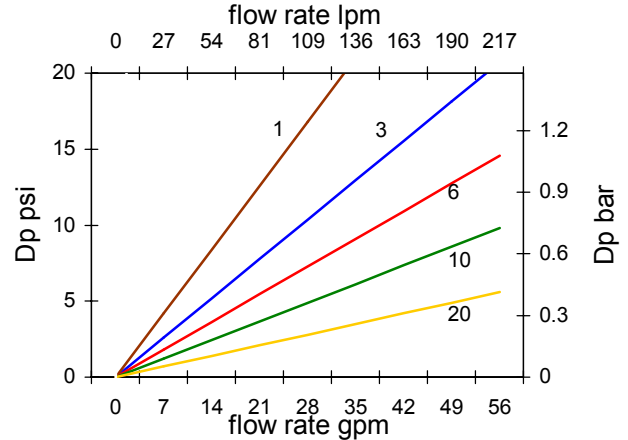
### Fluid Compatibility

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

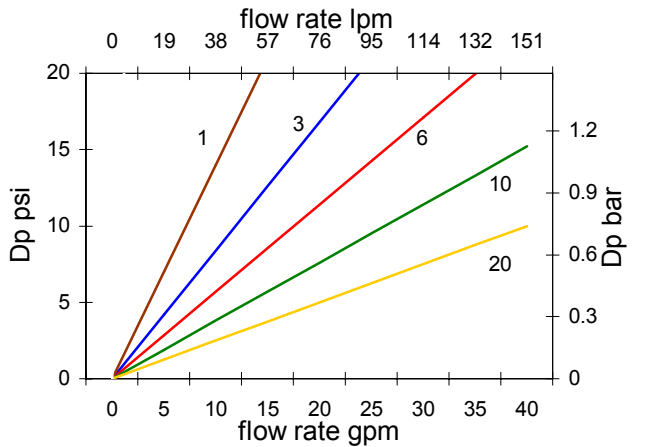
**HP190L5 Dualglass Dp vs flow rate**



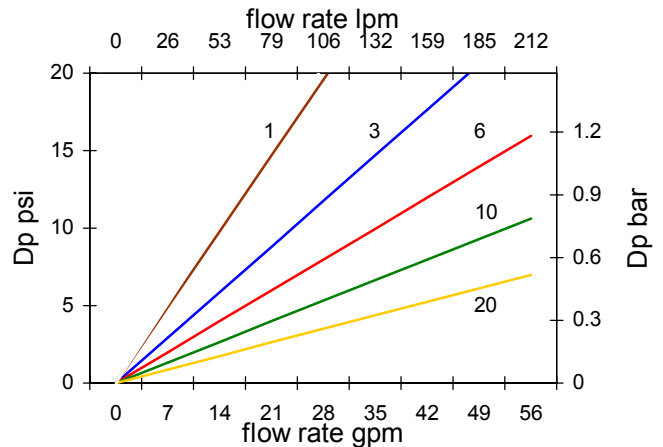
**HP190L9 Dualglass Dp vs flow rate**



**HP191L5 Dualglass Dp vs flow rate**



**HP191L9 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      table 6

**HP19 \_ \_ L \_ \_ - \_ \_ \_ \_ \_**

table 1	
code	collapse
0	300 psid
1	2000 psid

table 2	
code	length
5	5 inch
9	9 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)
10	B12[c] = 1000 (B12 = 200)
17	B15[c] = 1000 (B17 = 200)
20	B22[c] = 1000 (B25 = 200)
25	25u 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

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

table 5	
code	seal
B	Nitrile
V	Fluoro
E	EPR





# HP20/21 Series

interchanges Pall HC9020/HC9021

## 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 HP20 = 290 psid (20 bar)  
HP21 = 3000 psid (210 bar)

### 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

### Fluid Compatibility

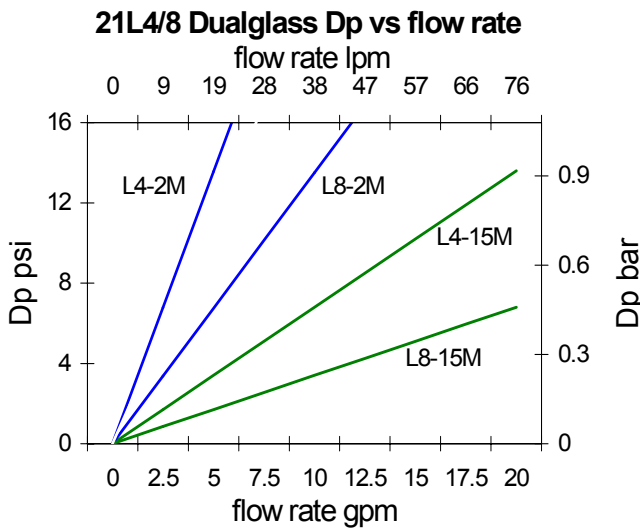
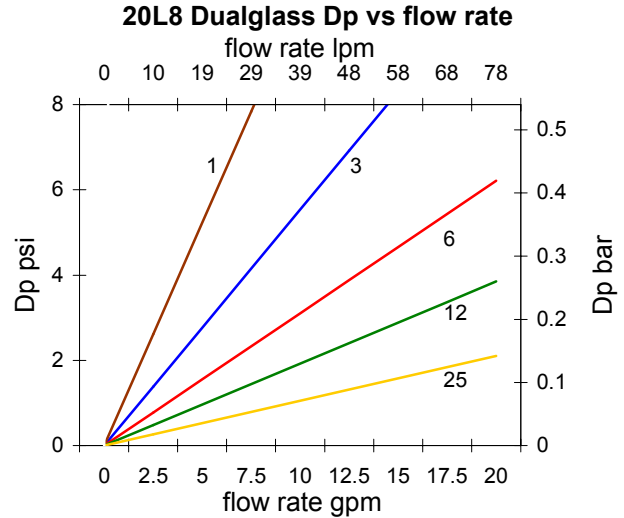
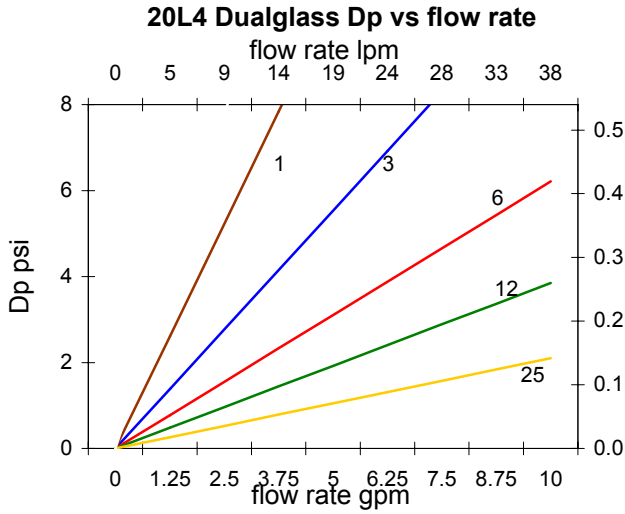
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF

### Interchange

Pall	Hy-Pro
HC9020FKN4H	HP20L4-6MB
HC9020FKN4Z	HP20L4-6MV
HC9020FKN8H	HP20L8-6MB
HC9020FKN8Z	HP20L8-6MV
HC9020FKP4H	HP20L4-3MB
HC9020FKP4Z	HP20L4-3MV
HC9020FKP8H	HP20L8-3MB
HC9020FKP8Z	HP20L8-3MV
HC9020FKS4H	HP20L4-12MB
HC9020FKS4Z	HP20L4-12MV
HC9020FKS8H	HP20L8-12MB
HC9020FKS8Z	HP20L8-12MV
HC9020FKT4H	HP20L4-25MB
HC9020FKT4Z	HP20L4-25MV
HC9020FKT8H	HP20L8-25MB
HC9020FKT8Z	HP20L8-25MV
HC9020FKZ4H	HP20L4-1MB
HC9020FKZ4Z	HP20L4-1MV
HC9020FKZ8H	HP20L8-1MB
HC9020FKZ8Z	HP20L8-1MV
HC9021FDP4H	HP21L4-2MB
HC9021FDP4Z	HP21L4-2MV
HC9021FDP8H	HP21L8-2MB
HC9021FDP8Z	HP21L8-2MV
HC9021FDT4H	HP21L4-15MB
HC9021FDT4Z	HP21L4-15MV
HC9021FDT8H	HP21L8-15MB
HC9021FDT8Z	HP21L8-15MV

\*For Viton seals (where Pall p/n ends with Z) replace the B in Hy-Pro p/n with a V.





### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1      table 2      table 3      table 4      table 5

# HP2 \_ \_ L \_ \_ - \_ \_ \_ \_

code	collapse
0	290 psid
1	3000 psid

code	length
4	single
8	double

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

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 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

code	seal
B	Nitrile
V	Fluoro
E	EPR

\*21 series only





# HP25 Series

Interchanges industry standard element 2.5"OD x 1"ID, flat gaskets

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

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

Element collapse 150 psid (10 bar)

### 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.

### Pleated Element Design

Pleated element design offers increased dirt holding capacity and can handle higher flow rates than "composite type" elements.

### Fluid Compatibility

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

### Interchanges by Series Only (See interchange guide for exact cross references and complete part numbers).

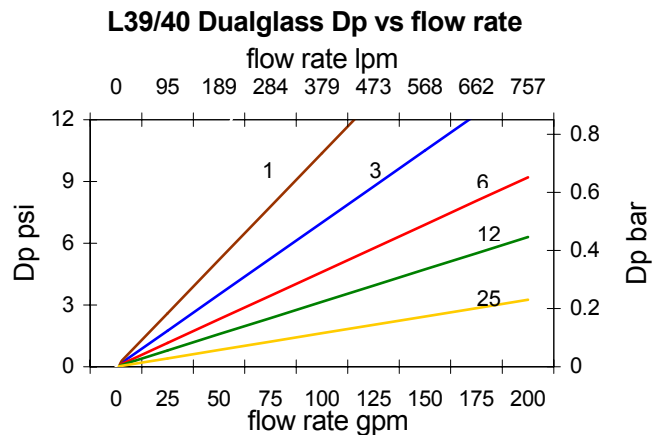
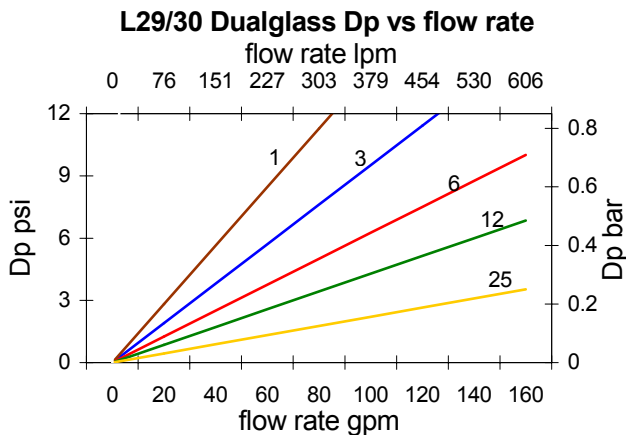
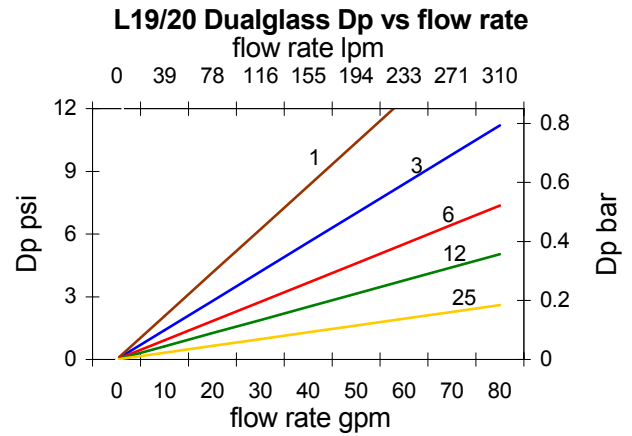
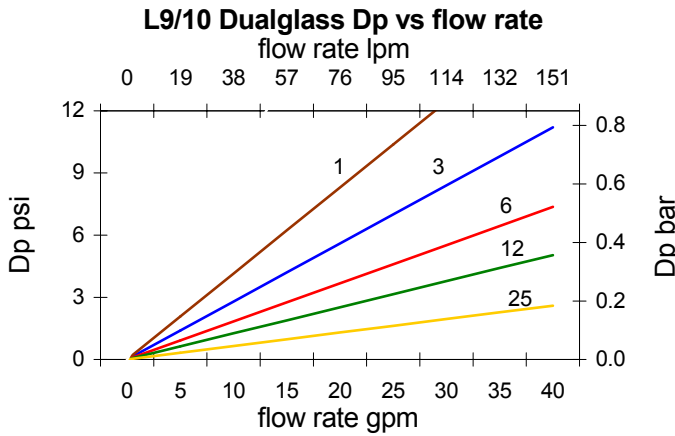
Pall HC2225FK\_\_\_ element series  
 Pall Profile HC3300\_\_\_ M element series  
 Pall Profile HC3300\_\_\_ G element series  
 Commercial  
 Filterite  
 Parker Hannifin  
 Cuno

Available seal materials are Nitrile, Fluorocarbon, EPR, and Silicone.

Wire mesh, water removal, and Dynafuzz media available in addition to G5 Dualglass. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

### 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



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

# HP25L \_\_\_\_\_ - \_\_\_\_\_

table 1 code	length
9	9.62"
10	9.75"
19	19.62"
20	19.93"
29	29.25"
30	30.06"
39	39.00"
40	40.00"

table 2 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 25u nominal wire mesh
40	40u nominal wire mesh
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

table 4 code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR
S	Silicone

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





# HP250/251 Series

PTI PG-025-#H and PG-025-#U,  
Mahle PI-##08 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 HP250 = 450 psid (30 bar)  
HP251 = 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-025-#H	HP250L7-##
PG-025-#U	HP251L7-##

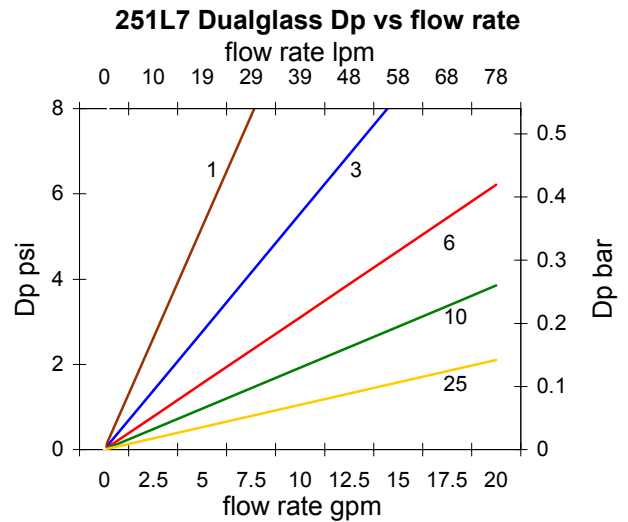
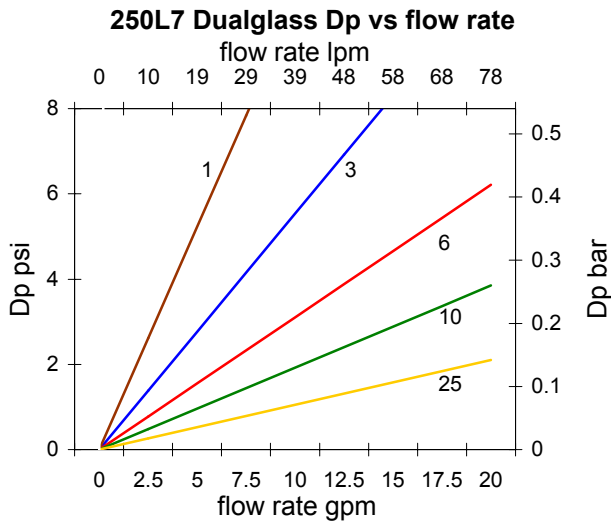
MAHLE	HY-PRO
PI1008	HP250L7-##
PI1108	HP251L7-##
PI2108	HP250L7-##
PI2208	HP251L7-##
PI3108	HP250L7-##
PI3208	HP251L7-##
PI4108	HP250L7-##
PI4208	HP250L7-##
PI8208	HP250L7-##
PI8308	HP250L7-##
PI8408	HP250L7-##
PI8508	HP250L7-##
PI9108	HP250L7-##

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

# HP25 \_\_ L7 - \_\_ \_\_

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) or 25u nominal mesh
40	40u nominal mesh
50	50u nominal mesh
74	74u nominal mesh
100	100u nominal mesh
149	149u nominal 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 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



# HP2544 Series

Interchanges Pall\* HC2544 coreless

## Hy-Pro G6 Dualglass High Performance Filter Elements



### Performance

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

Max flow rate 120 gpm (450 lpm)  
Element collapse 150 psid (20 bar)

### 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.

### Disposable

Easy to incinerate design includes synthetic endcaps.

### 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

### Interchange

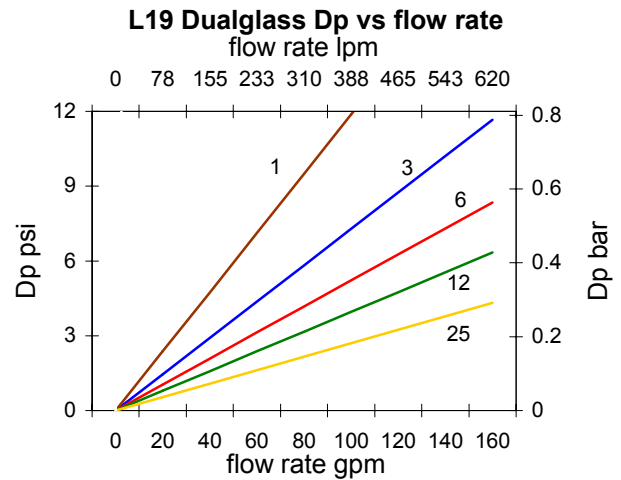
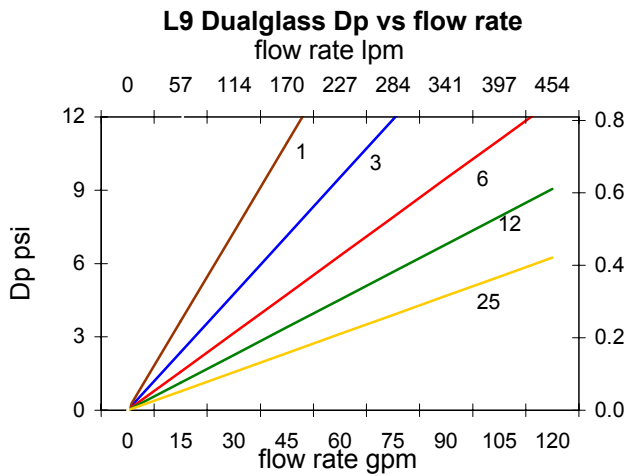
Pall	Hy-Pro
HC2544FKN19H	HP2544L19-6MB
HC2544FKN19Z	HP25644L19-6MV
HC2544FKN9H	HP2544L9-6MB
HC2544FKN9Z	HP2544L9-6MV
HC2544FKP19H	HP2544L19-3MB
HC2544FKP19Z	HP2544L19-3MV
HC2544FKP9H	HP2544L9-3MB
HC2544FKP9Z	HP2544L9-3MV
HC2544FKS19H	HP2544L19-12MB
HC2544FKS19Z	HP2544L19-12MV
HC2544FKS9H	HP2544L9-12MB
HC2544FKS9Z	HP2544L9-12MV
HC2544FKT19H	HP2544L19-25MB
HC2544FKT19Z	HP2544L19-25MV
HC2544FKT9H	HP2544L9-25MB
HC2544FKT9Z	HP2544L9-25MV
HC2544FKZ19H	HP2544L19-1MB
HC2544FKZ19Z	HP2544L19-1MV
HC2544FKZ9H	HP2544L9-1MB
HC2544FKZ9Z	HP2544L9-1MV

\*Pall is a registered trademark of the Pall Corporation

### 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    table 4

# HP2544L \_\_\_\_\_ - \_\_\_\_\_

table 1	
code	length
9	single
19	double

table 2	
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
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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP27H/27 series

Interchanges element for Fairey 250 and 270 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 HP27 = 450 psid (31 bar)  
 HP27H = 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

Fairey Arlon	Hy-Pro
250-Z-1##	HP27HL4 series
250-Z-2##	HP27HL8 series
270-L-1##	HP27L4 series
270-L-2##	HP27L8 series
270-Z-1##	HP27L4 series
270-Z-2##	HP27L8 series

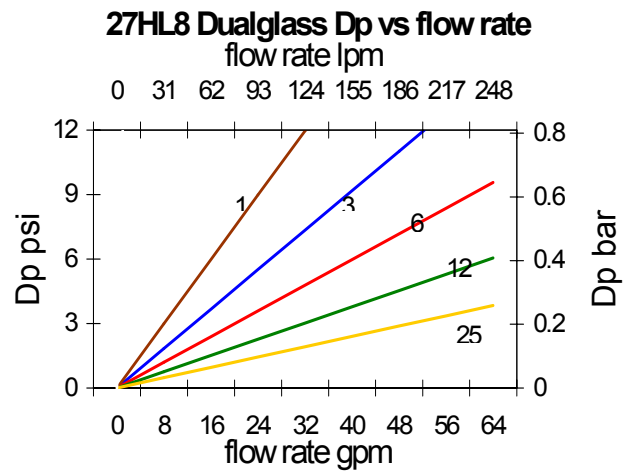
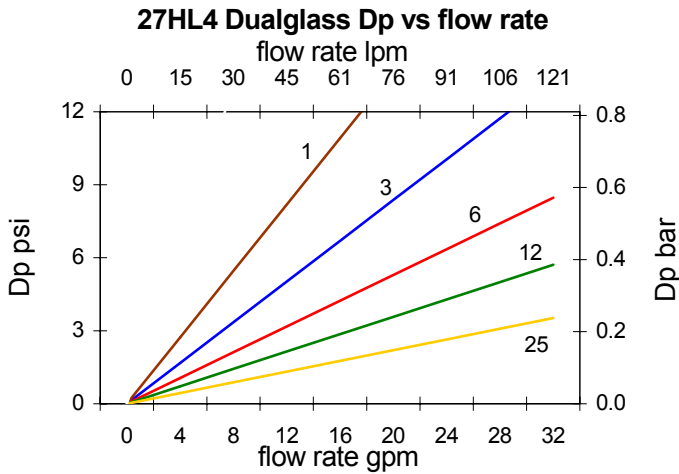
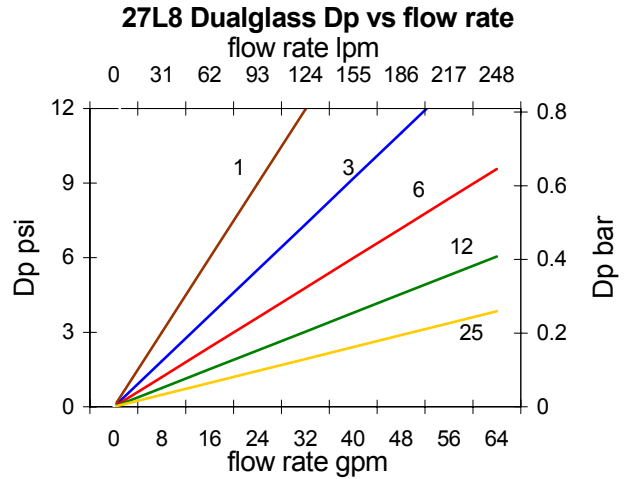
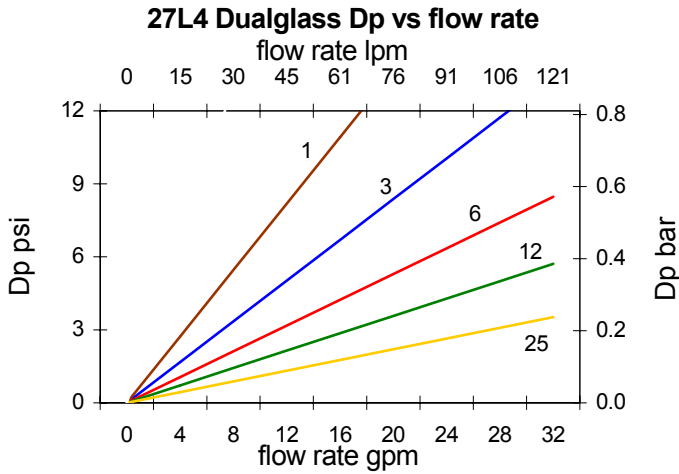
Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

### Fluid Compatibility

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





### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP27 \_ L \_ - \_ \_ \_

table 1	
code	collapse
H	3000 psid
omit	450 psid

table 2	
code	length
4	single
8	double

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)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 4	
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 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

table 5	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR



# HP300/301 Series

PTI PG-030-#H and PG-030-#U,  
Mahle PI-##11 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 HP300 = 450 psid (30 bar)  
HP301 = 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

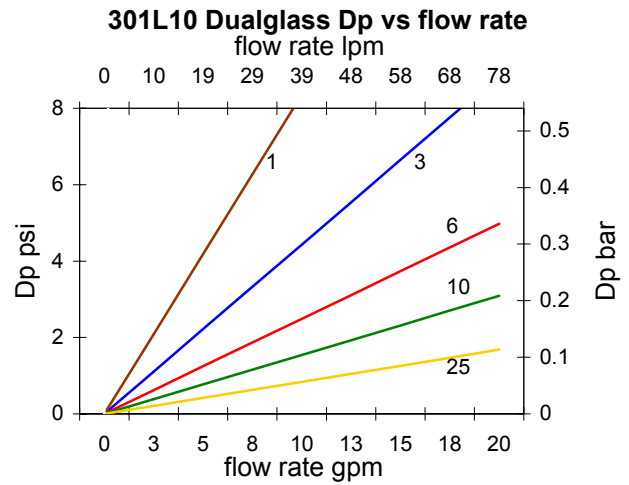
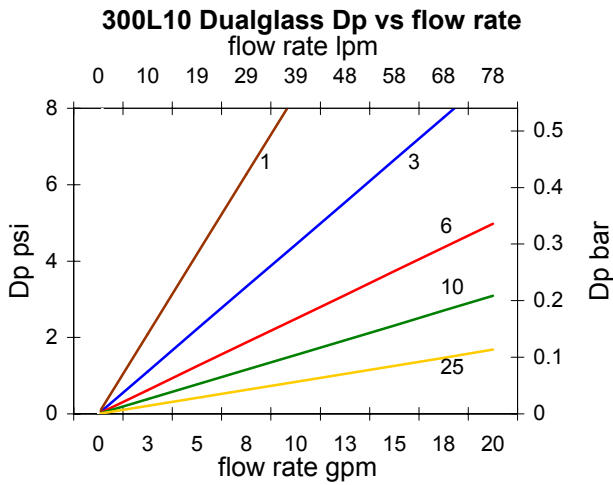
PTI	HY-PRO
PG-030-#H	HP300L10-##
PG-030-#U	HP301L10-##

MAHLE	HY-PRO
PI1011	HP300L10-##
PI1111	HP301L10-##
PI2111	HP300L10-##
PI2211	HP301L10-##
PI3111	HP300L10-##
PI3211	HP301L10-##
PI4111	HP300L10-##
PI4211	HP300L10-##
PI8211	HP300L10-##
PI8311	HP300L10-##
PI8411	HP300L10-##
PI8511	HP300L10-##
PI9111	HP300L10-##

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

# HP30 \_\_ L10 - \_\_ \_\_

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) or 25u nominal mesh
40	40u nominal mesh
50	50u nominal mesh
74	74u nominal mesh
100	100u nominal mesh
149	149u nominal 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 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



# HP310/311 Series

interchanges Parker 31P/61P 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 HP310 = 290 psid (20 bar)  
HP311 = 3000 psid (210 bar)

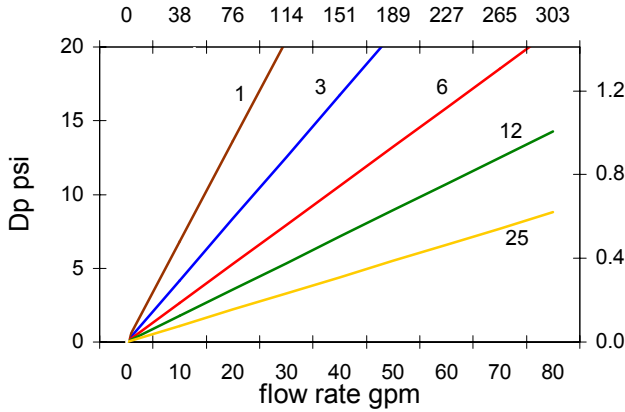
### Hy-Pro HP310 and HP311 series elements interchange Parker elements used in the 31P and 61P housing series.

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.

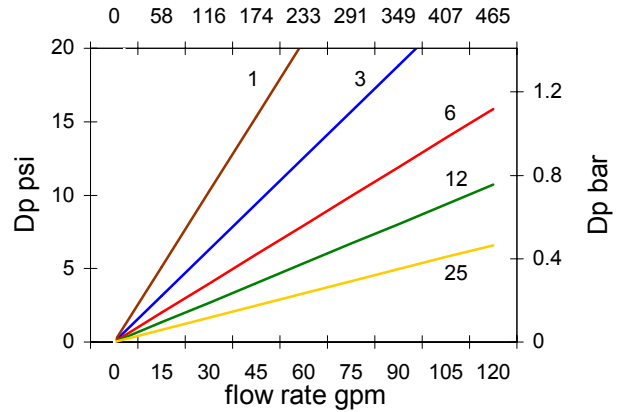
### Fluid Compatibility

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

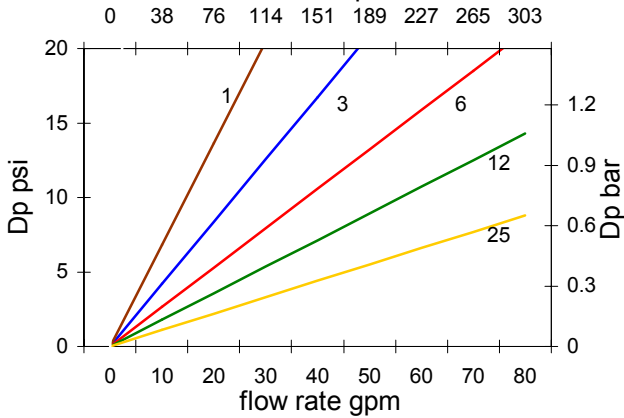
**HP310L8 Dualglass Dp vs flow rate**  
flow rate lpm



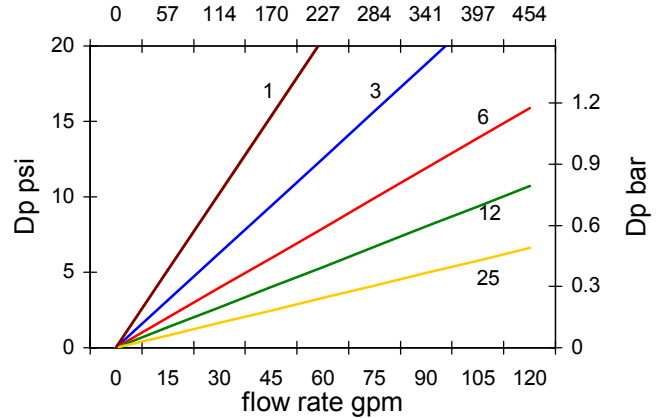
**HP310L15 Dualglass Dp vs flow rate**  
flow rate lpm



**HP311L8 Dualglass Dp vs flow rate**  
flow rate lpm



**HP311L15 Dualglass Dp vs flow rate**  
flow rate lpm



### 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

# HP31 \_ L \_ - \_ \_ \_ \_

code	collapse
0	290 psid
1	3000 psid

code	length
8	single
15	double

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

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 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

code	seal
B	Nitrile
V	Fluoro
E	EPR





# HP32H Series

Interchanges for MP Filtri

HP3201, HP3202, HP3203, HP3204

## 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 3000 psid (210 bar)

### Interchange

HP3201A03AH	HP32HL4-3MB
HP3201A06AH	HP32HL4-6MB
HP3201A10AH	HP32HL4-10MB
HP3201A25AH	HP32HL4-25MB
HP3201T10AH	HP32HL4-25WB
HP3201T25AH	HP32HL4-25WB
HP3202A03AH	HP32HL9-3MB
HP3202A06AH	HP32HL9-6MB
HP3202A10AH	HP32HL9-10MB
HP3202A25AH	HP32HL9-25MB
HP3202T10AH	HP32HL9-25WB
HP3202T25AH	HP32HL9-25WB
HP3203A03AH	HP32HL15-3MB
HP3203A06AH	HP32HL15-6MB
HP3203A10AH	HP32HL15-10MB
HP3203A25AH	HP32HL15-25MB
HP3203T10AH	HP32HL15-25WB
HP3203T25AH	HP32HL15-25WB
HP3204A03AH	HP32HL20-3MB
HP3204A06AH	HP32HL20-6MB
HP3204A10AH	HP32HL20-10MB
HP3204A25AH	HP32HL20-25MB
HP3204T10AH	HP32HL20-25WB
HP3204T25AH	HP32HL20-25WB

### 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

### Tested to ISO quality standards

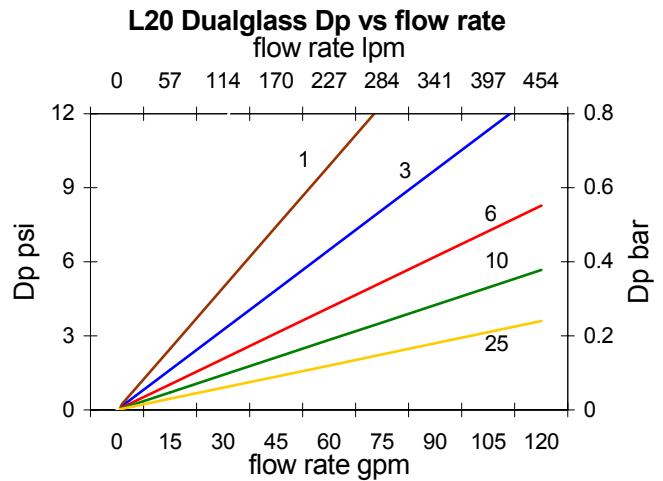
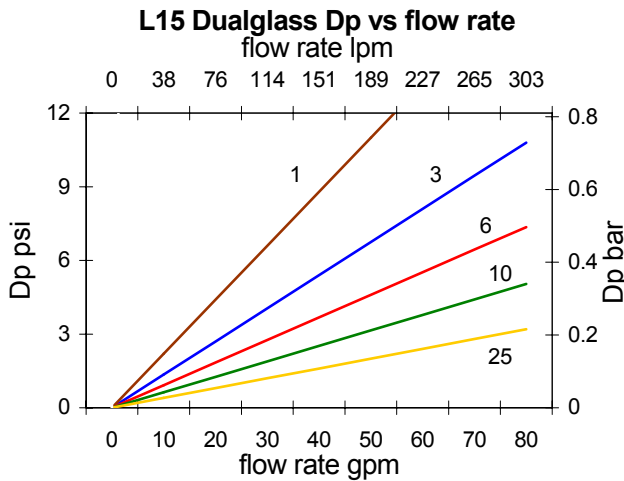
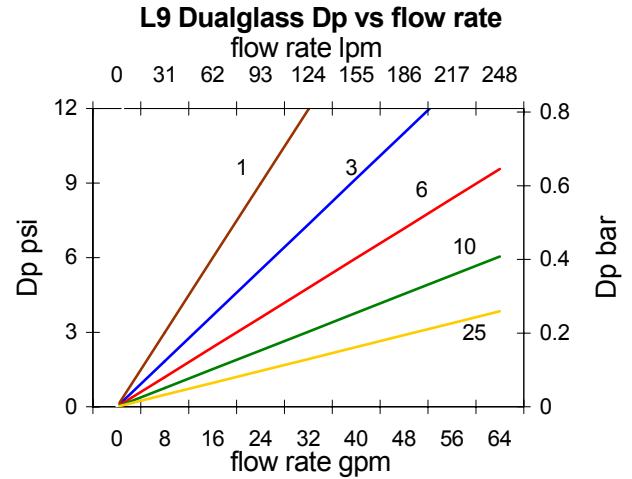
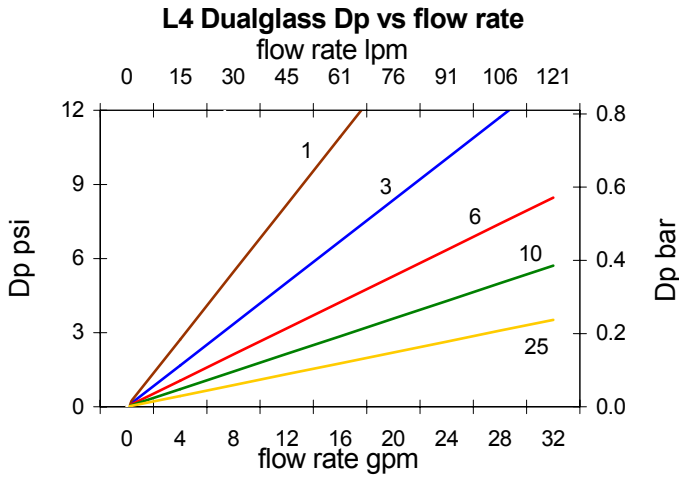
ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

### Fluid Compatibility

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

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

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)



### 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

# HP32HL \_\_\_\_\_

code	length
4	single
9	double
15	triple
20	quad

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)
10W	10u nominal wire mesh
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP32N Series

Interchanges for MP Filtri  
HP3201, HP3202, HP3203, HP3204

## 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 450 psid (210 bar)

### 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

### Fluid Compatibility

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

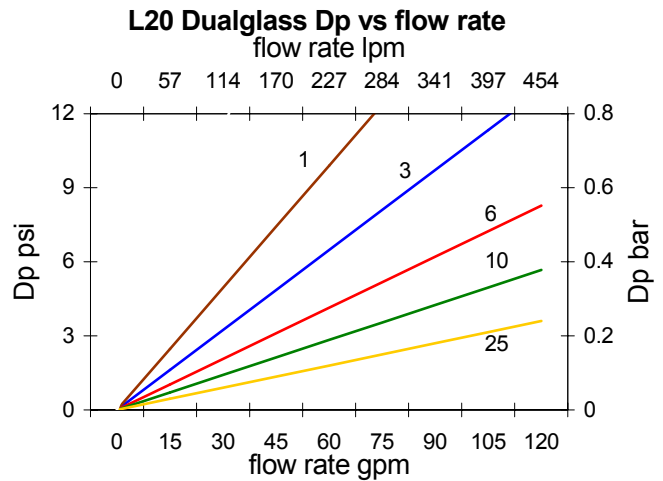
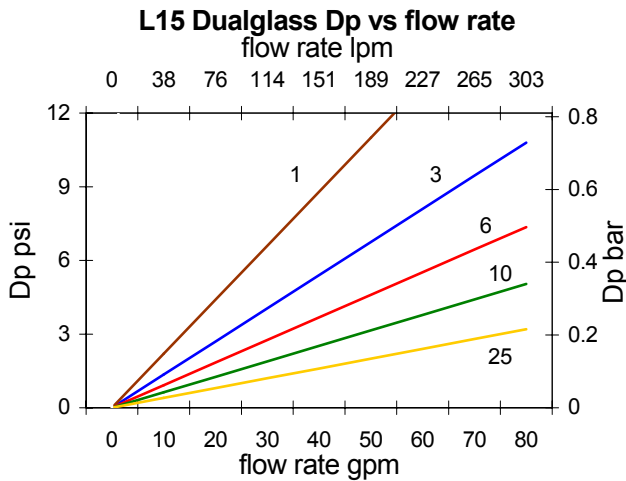
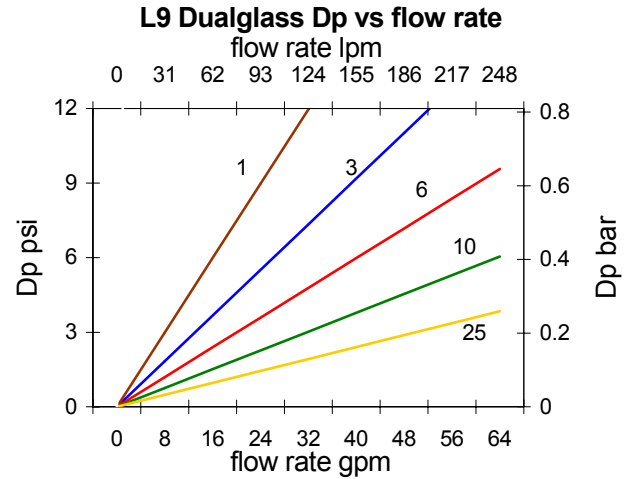
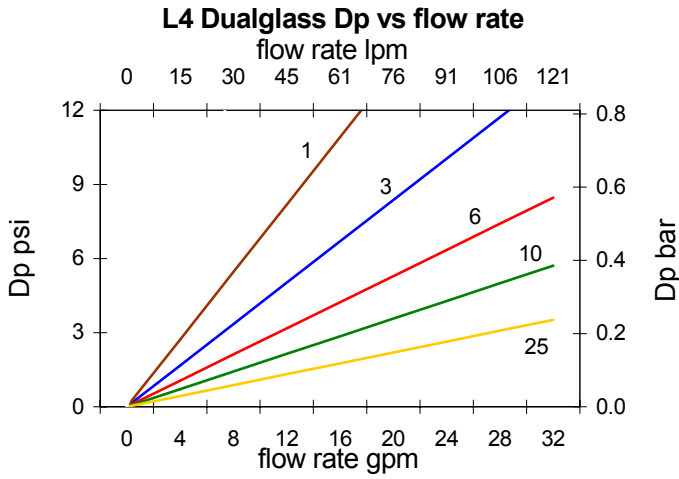
### Interchange

HP3201A03AN	HP32NL4-3MB
HP3201A06AN	HP32NL4-6MB
HP3201A10AN	HP32NL4-10MB
HP3201A25AN	HP32NL4-25MB
HP3201T10AN	HP32NL4-25WB
HP3201T25AN	HP32NL4-25WB
HP3202A03AN	HP32NL9-3MB
HP3202A06AN	HP32NL9-6MB
HP3202A10AN	HP32NL9-10MB
HP3202A25AN	HP32NL9-25MB
HP3202T10AN	HP32NL9-25WB
HP3202T25AN	HP32NL9-25WB
HP3203A03AN	HP32NL15-3MB
HP3203A06AN	HP32NL15-6MB
HP3203A10AN	HP32NL15-10MB
HP3203A25AN	HP32NL15-25MB
HP3203T10AN	HP32NL15-25WB
HP3203T25AN	HP32NL15-25WB
HP3204A03AN	HP32NL20-3MB
HP3204A06AN	HP32NL20-6MB
HP3204A10AN	HP32NL20-10MB
HP3204A25AN	HP32NL20-25MB
HP3204T10AN	HP32NL20-25WB
HP3204T25AN	HP32NL20-25WB

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

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)





### 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

# HP32NL - - - - -

code	length
4	single
9	double
15	triple
20	quad

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)
10W	10u nominal wire mesh
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

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

code	seal
B	Nitrile(buna)
V	Fluorocarbon
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





# HP33DH Series

Interchanges for Hycon/Hydac  
0330D/0500D/0660D/0990D/1320D

## 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 3000 psid (210 bar)

### 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

### Fluid Compatibility

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

### Interchange

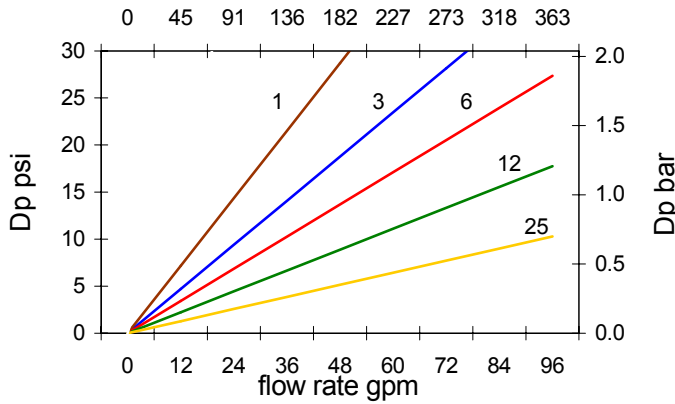
Hydac/Hycon	Hy-Pro
0330D003BH3HC	HP33DHL7-3MB
0330D003BHHC	HP33DHL7-3MB
0330D005BH3HC	HP33DHL7-6MB
0330D005BHHC	HP33DHL7-6MB
0330D010BH3HC	HP33DHL7-12MB
0330D010BHHC	HP33DHL7-12MB
0330D020BH3HC	HP33DHL7-25MB
0330D020BHHC	HP33DHL7-25MB
0500D003BH3HC	HP33DHL10-3MB
0500D003BHHC	HP33DHL10-3MB
0500D005BH3HC	HP33DHL10-6MB
0500D005BHHC	HP33DHL10-6MB
0500D010BH3HC	HP33DHL10-12MB
0500D010BHHC	HP33DHL10-12MB
0500D020BH3HC	HP33DHL10-25MB
0500D020BHHC	HP33DHL10-25MB
0660D003BH3HC	HP33DHL14-3MB
0660D003BHHC	HP33DHL14-3MB
0660D005BH3HC	HP33DHL14-6MB
0660D005BHHC	HP33DHL14-6MB
0660D010BH3HC	HP33DHL14-12MB
0660D010BHHC	HP33DHL14-12MB
0660D020BH3HC	HP33DHL14-25MB
0660D020BHHC	HP33DHL14-25MB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

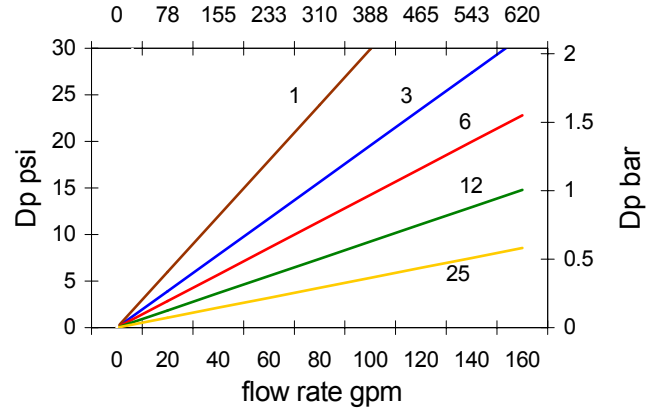
\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

\*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)

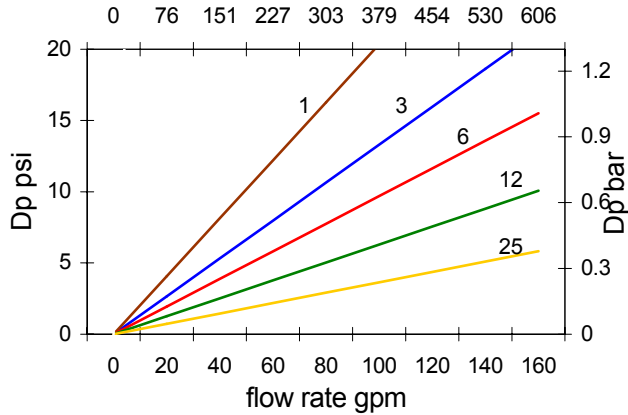
**L7 Dualglass Dp vs flow rate**  
flow rate lpm



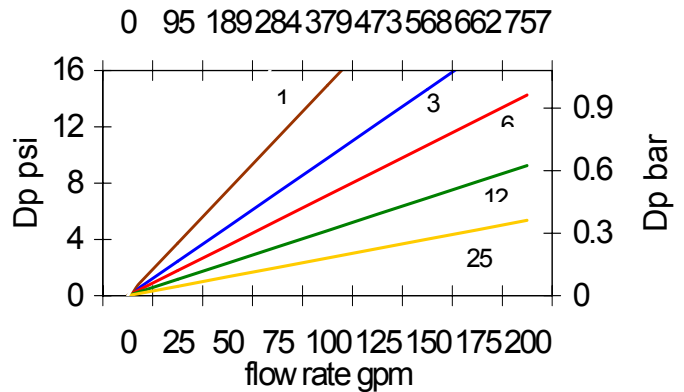
**L14 Dualglass Dp vs flow rate**  
flow rate lpm



**L19 Dualglass Dp vs flow rate**  
flow rate lpm



**L26 Dualglass Dp vs flow rate**  
flow rate lpm



### 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:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/141 \times \text{Actual SG}/0.86$$

table 1      table 2      table 3      table 4      table 5

# HP33DHL - - - - -

table 1	code	length
	7	single
	10	10 inch
	14	double
	19	triple
	26	extended

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

table 4	code	Element OD
	omit	Standard
	S	reduced capacity

table 5	code	seal
	B	Nitrile(buna)
	V	Fluorocarbon
	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





# HP33DN Series

Interchanges for Hycon/Hydac  
0330D/0500D/0660D pressure series

## 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 450 psid (31 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0330D003BN3HC	HP33DNL7-3MB
0330D003BNHC	HP33DNL7-3MB
0330D005BN3HC	HP33DNL7-6MB
0330D005BNHC	HP33DNL7-6MB
0330D010BN3HC	HP33DNL7-12MB
0330D010BNHC	HP33DNL7-12MB
0330D020BN3HC	HP33DNL7-25MB
0330D020BNHC	HP33DNL7-25MB
0500D003BN3HC	HP33DNL10-3MB
0500D003BNHC	HP33DNL10-3MB
0500D005BN3HC	HP33DNL10-6MB
0500D005BNHC	HP33DNL10-6MB
0500D010BN3HC	HP33DNL10-12MB
0500D010BNHC	HP33DNL10-12MB
0500D020BN3HC	HP33DNL10-25MB
0500D020BNHC	HP33DNL10-25MB
0660D003BN3HC	HP33DNL14-3MB
0660D003BNHC	HP33DNL14-3MB
0660D005BN3HC	HP33DNL14-6MB
0660D005BNHC	HP33DNL14-6MB
0660D010BN3HC	HP33DNL14-12MB
0660D010BNHC	HP33DNL14-12MB
0660D020BN3HC	HP33DNL14-25MB
0660D020BNHC	HP33DNL14-25MB

\*If No HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

\*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)

### 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.

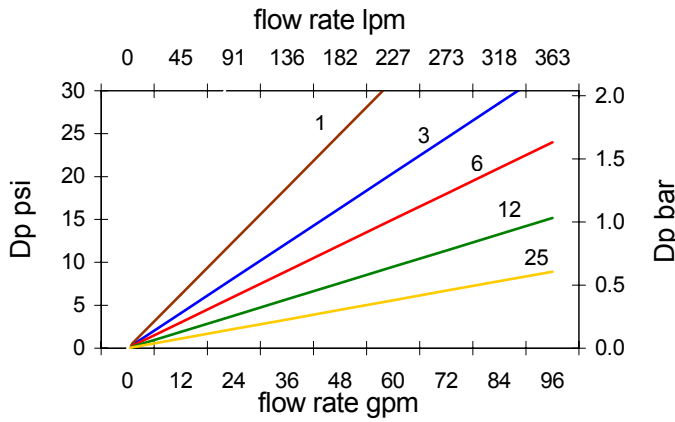
### Tested to ISO quality standards

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

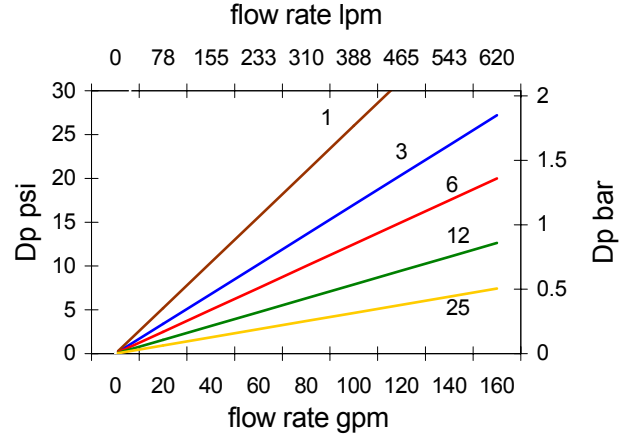
### Fluid Compatibility

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

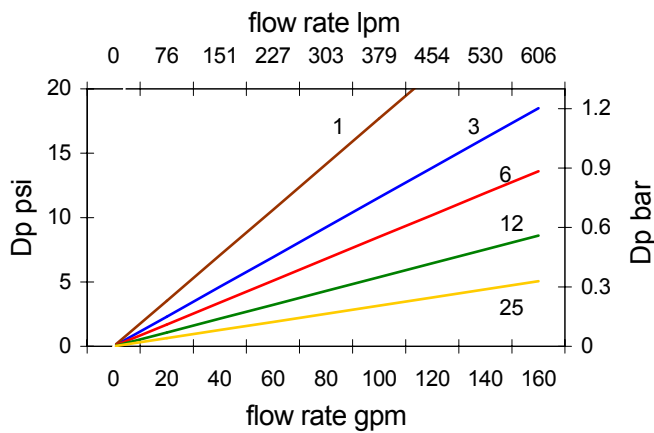
**L7 Dualglass Dp vs flow rate**



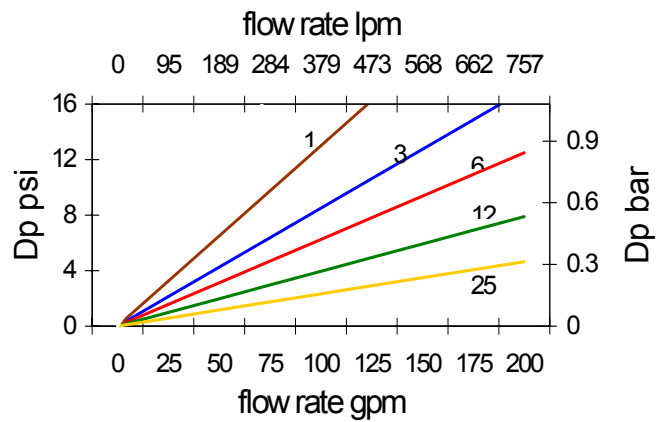
**L14 Dualglass Dp vs flow rate**



**L19 Dualglass Dp vs flow rate**



**L26 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

# HP33DNL - - - - -

table 1	code	length
	7	single
	10	10 inch
	14	double
	19	triple
	26	extended

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

table 4	code	Element OD
	omit	Standard
	S	reduced capacity

table 5	code	seal
	B	Nitrile(buna)
	V	Fluorocarbon
	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





# HP33RN Series

Interchanges Hydac 0330/0500R

## Hy-Pro G6 Dualglass

High Performance Filter Elements

### Performance

Temperature:	-45f to 225f, -43c to 107c (buna) -20f to 250f, -29c to 120c (viton)
Max flow rate	130 gpm (500 lpm)
Element collapse	250 psid (17 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0330R003BN3HC	HP33RNL8-3MB
0330R003BNHC	HP33RNL8-3MB
0330R005BN3HC	HP33RNL8-6MB
0330R005BNHC	HP33RNL8-6MB
0330R010BN3HC	HP33RNL8-12MB
0330R010BNHC	HP33RNL8-12MB
0330R020BN3HC	HP33RNL8-25MB
0330R020BNHC	HP33RNL8-25MB
0500R003BN3HC	HP33RNL10-3MB
0500R003BNHC	HP33RNL10-3MB
0500R005BN3HC	HP33RNL10-6MB
0500R005BNHC	HP33RNL10-6MB
0500R010BN3HC	HP33RNL10-12MB
0500R010BNHC	HP33RNL10-12MB
0500R020BN3HC	HP33RNL10-25MB
0500R020BNHC	HP33RNL10-25MB

\*for viton (Hydac ends /-V) seals replace "B" in HP no. with "V".

\*other media types than "BNHC" or "BN3HC" available are "W", "BN", "P", "P/HC" 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

### 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.

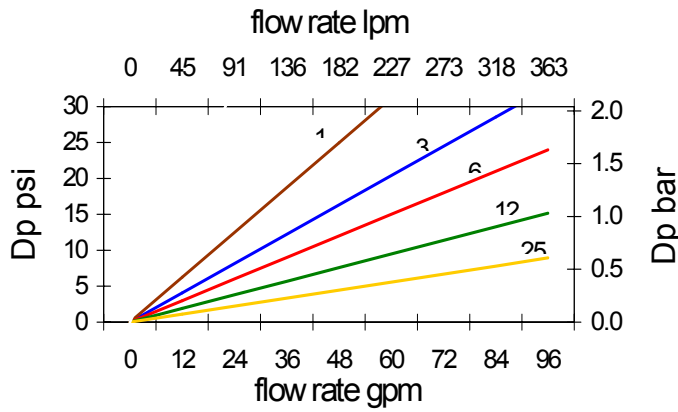
### Bypass Valve

Zero leak, soft seat design eliminates inherently

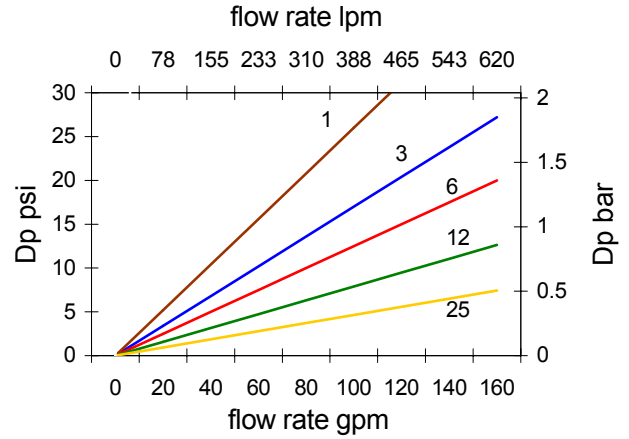
### Tested to ISO quality standards

ISO2941	Collapse and burst resistance
ISO2942	Fabrication and Integrity test
ISO2943	Material compatibility with fluids
ISO3724	Flow fatigue characteristics
ISO3968	Pressure drop vs. flow rate
ISO16889	Multi-pass performance testing

### L8 Dualglass Dp vs flow rate



### L10 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:

$$DP \text{ element} = DP \text{ curve} \times \text{Actual Viscosity}/141 \times \text{Actual SG}/0.86$$

table 1      table 2      table 3      table 4      table 5      table 6      table 7

# HP33RNL

code	length
8	single
10	double

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
12	B10[c] = 1000 (B10 = 200)
17	B15[c] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

code	bypass
omit	With 43psid bypass valve
C	blocked bypass

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

code	Element OD
omit	Standard
S	reduced capacity

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.

code	special option
PC	special coating for HWBF
87	87 psid bypass

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



# HP37H/37 series

Interchanges element for Fairey  
350 and 370 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 HP37 = 450 psid (31 bar)  
HP37H = 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

### Fairey Arlon

350-Z-1##  
350-Z-2##  
350-Z-3##  
370-L-1##  
370-L-2##  
370-L-3##  
370-Z-1##  
370-Z-2##  
370-Z-3##

### Hy-Pro

HP37HL4 series  
HP37HL8 series  
HP37HL13 series  
HP37L4 series  
HP37L8 series  
HP37L13 series  
HP37L4 series  
HP37L8 series  
HP37L13 series

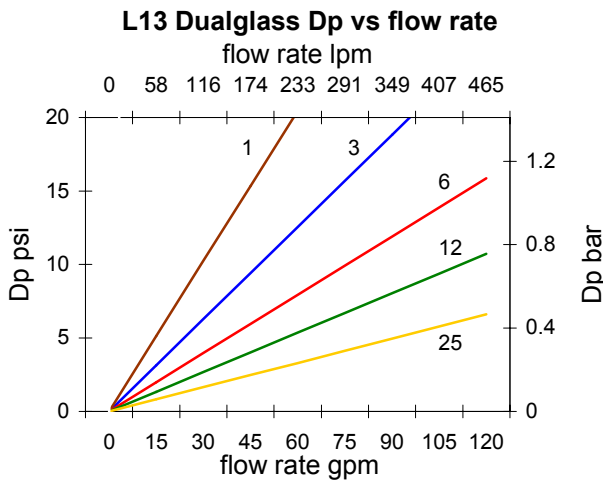
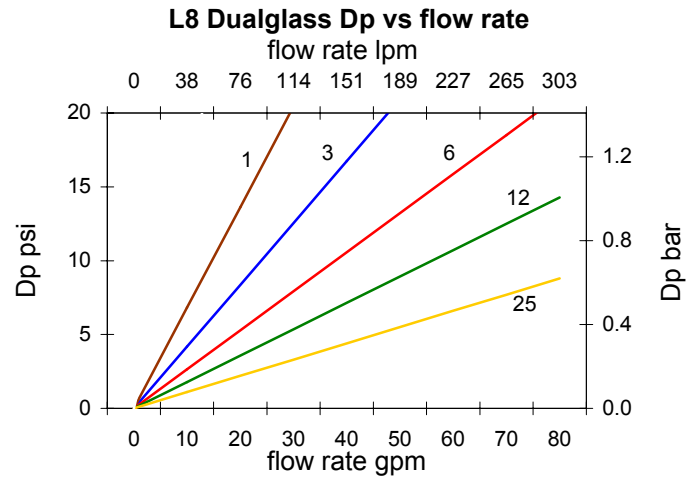
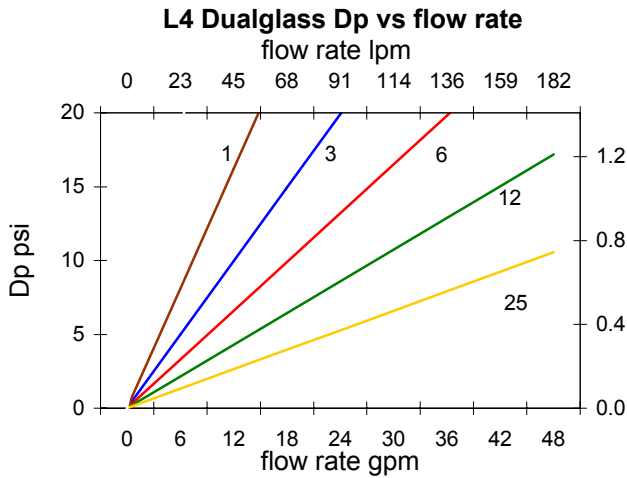
Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

### 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1      table 2      table 3      table 4      table 5

# HP37 \_ L \_ - \_ \_ \_

table 1	
code	collapse
H	3000 psid
omit	450 psid

table 2	
code	length
4	single
8	double
13	triple

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)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 4	
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

table 5	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR





# HP390/391 Series

Interchanges element for Parker  
38P High Pressure Filters

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43 to 107c (buna)  
-20f to 250f, -29c to 120c (viton)  
Element collapse 390 = 300 psid (20 bar)  
391 = 2000 psid (141 bar)

### 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

### Interchange

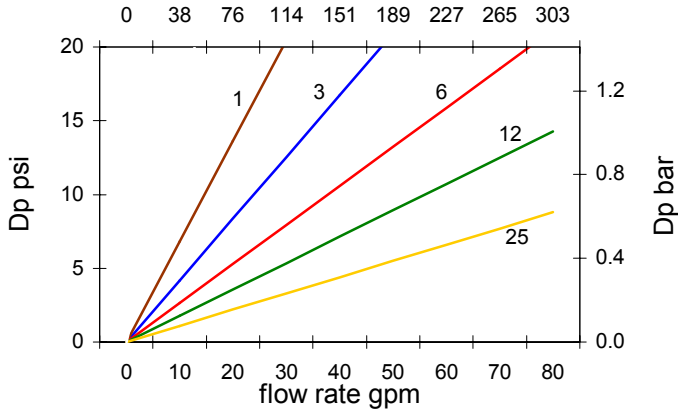
Parker	Hy-Pro	Parker	Hy-Pro
G04274	HP390L8-3MB	G04278	HP390L8-3MV
G04275	HP390L8-6MB	G04279	HP390L8-6MV
G04276	HP390L8-10MB	G04280	HP390L8-10MV
G04277	HP390L8-20MB	G04281	HP390L8-20MV
G04282	HP390L14-3MB	G04286	HP390L14-3MV
G04283	HP390L14-6MB	G04287	HP390L14-6MV
G04284	HP390L14-10MB	G04288	HP390L14-10MV
G04285	HP390L14-20MB	G04289	HP390L14-20MV
G04322	HP391L8-3MB	G04326	HP391L8-3MV
G04323	HP391L8-6MB	G04327	HP391L8-6MV
G04324	HP391L8-10MB	G04328	HP391L8-10MV
G04325	HP391L8-20MB	G04329	HP391L8-20MV
G04330	HP391L14-3MB	G04334	HP391L14-3MV
G04331	HP391L14-6MB	G04335	HP391L14-6MV
G04332	HP391L14-10MB	G04336	HP391L14-10MV
G04333	HP491L14-20MB	G04337	HP391L14-20MV

Also available in stainless steel mesh media and Dynafuzz. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

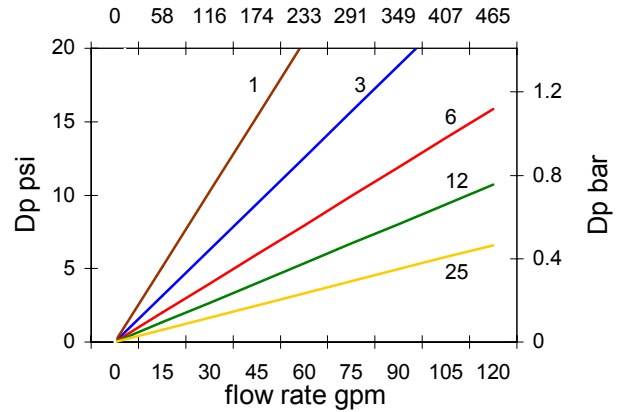
### Fluid Compatibility

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

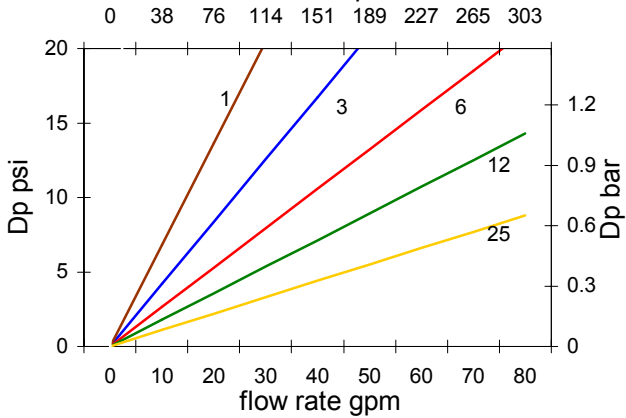
**HP390L8 Dualglass Dp vs flow rate**  
flow rate lpm



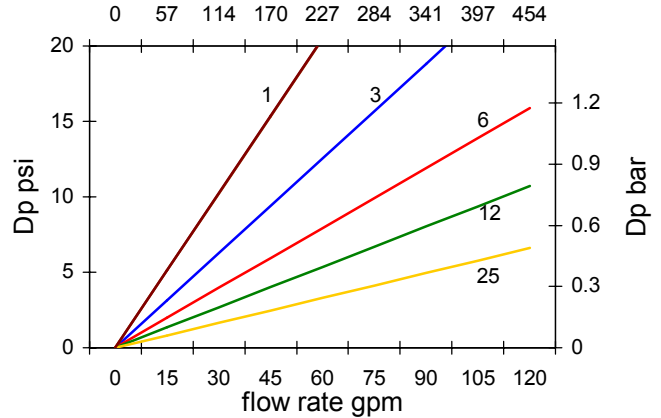
**HP390L14 Dualglass Dp vs flow rate**  
flow rate lpm



**HP391L8 Dualglass Dp vs flow rate**  
flow rate lpm



**HP391L14 Dualglass Dp vs flow rate**  
flow rate lpm



**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      table 6

**HP39 \_ L \_ - \_ \_ \_ \_**

table 1	
code	collapse
0	300 psid
1	2000 psid

table 2	
code	length
8	single
14	double

table 3	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200)
17	B15[c] = 1000 (B17 = 200)
20	B22[c] = 1000 (B25 = 200)
25	25u 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

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

table 5	
code	seal
B	Nitrile
V	Fluoro
E	EPR





# HP3A1/3A3 series

Interchanges element for Army-Navy AN6235-3A standard

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature:	-65f to 275f (buna)
	-65f to 300f (EPR)
	-65f to 400f (fluorocarbon)
Element collapse	HP3A1 = 300 psid (21 bar)
	HP3A3 = 4500 psid (320 bar)

### 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

### Fluid Compatibility

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

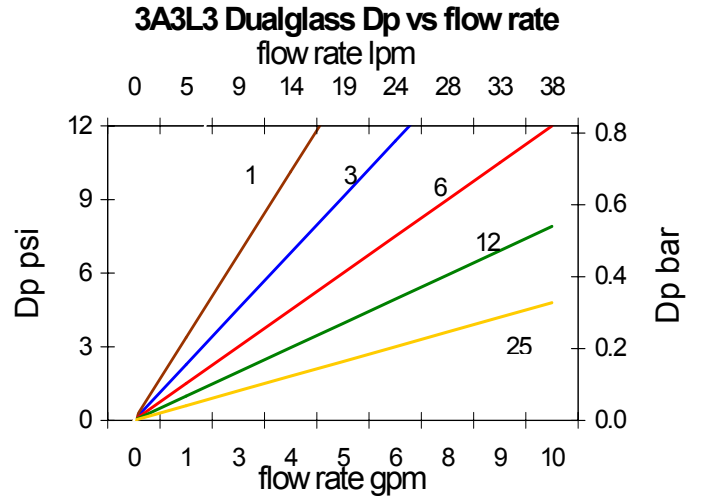
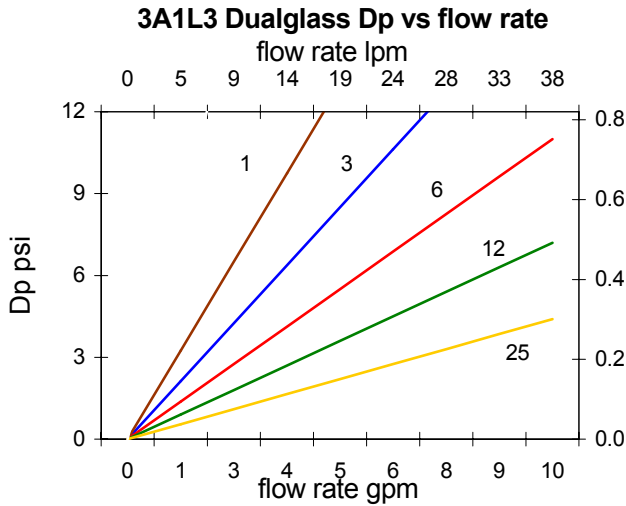
### Interchanges by series only:

**(See interchange guide for exact cross Reference and complete part numbers)**

Army-Navy	Hy-Pro
AN6235-3A (300 psid collapse)	HP3A1L3-###
AN6235-3A (4500 psid collapse)	HP3A3L3-###

Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.



### 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

# HP3A \_\_\_ L 3 - \_\_\_ \_\_\_ \_\_\_

table 1	
code	collapse
3	4500 psid
1	300 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)
12	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 3	
code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 4	
code	seal
B	Nitrile (buna)
E	EPR
V	Fluorocarbon

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



# HP411 Series

Interchanges Vickers 0411 coreless

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

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

Max flow rate 300 gpm (1089 lpm)  
Element collapse 150 psid (20 bar)

### 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.

### Disposable

Easy to crush design includes no center support tube as part of the element.

### 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

### Interchange by series:

(For complete part numbers check the interchange guide).

#### Vickers

V0411B5E01  
V0411B5E03  
V0411B5E05  
V0411B5E10  
V0411B5E20

V0411B8E01  
V0411B8E03  
V0411B8E05  
V0411B8E10  
V0411B8E20

#### Hy-Pro

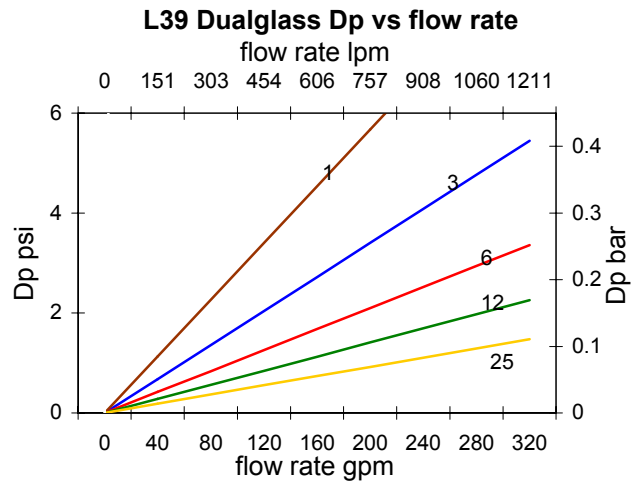
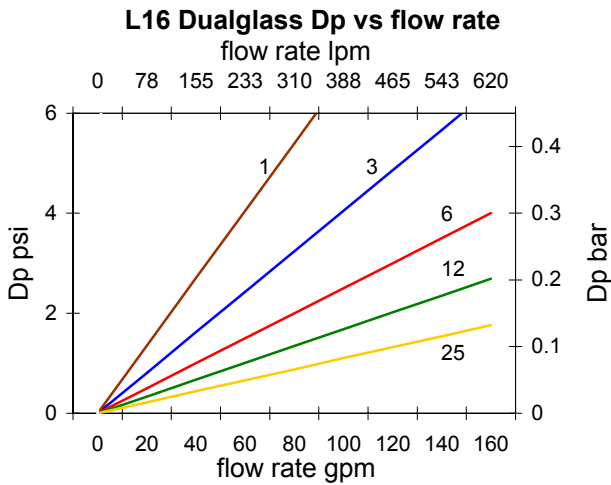
HP411L16-1MB  
HP411L16-3MB  
HP411L16-6MB  
HP411L16-10MB  
HP411L16-25MV

HP411L36-1MB  
HP411L36-3MB  
HP411L36-6MB  
HP411L36-10MB  
HP411L36-25MB

\*For viton seals, where V appears after 0411, replace the B in Hy-Pro number with V.

### Fluid Compatibility

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



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/150 \times \text{Actual SG}/0.86$$

table 1    table 2    table 3    table 4

# HP411L \_\_\_\_\_

table 1 code	length
8	single
16	double
39	triple

table 2 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 25u nominal wire mesh
40	40u nominal wire mesh
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

table 4 code	seal
B	Nitrile (buna)
V	Fluorocarbon
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



# HP450/455 Series

interchanges Parker Moduflow filter elements for IL2/RF2/CF2 housings

## 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 150 psid (10.6 bar)

### 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.

### O-ring seal

The Hy-Pro design utilizes a captured o-ring for a more positive o-ring seal

### One piece design

The Hy-Pro double length element is a single, continuous element. There is no connecting adapter to stack two single length elements to make a double. The Hy-Pro design minimizes leak points and maximizes effective media surface area.

**Hy-Pro HP450 elements interchange Parker elements used in the CF2 low pressure housings.**

**Hy-Pro HP455 elements interchange Parker elements used in the RF2, IL2, DIL2 low pressure housings.**

Available media selections include G6 Dualglass, Stainless steel wire mesh, Water removal media, and Dynafuzz (stainless steel fiber media). See ordering information on reverse side for part numbers/codes.

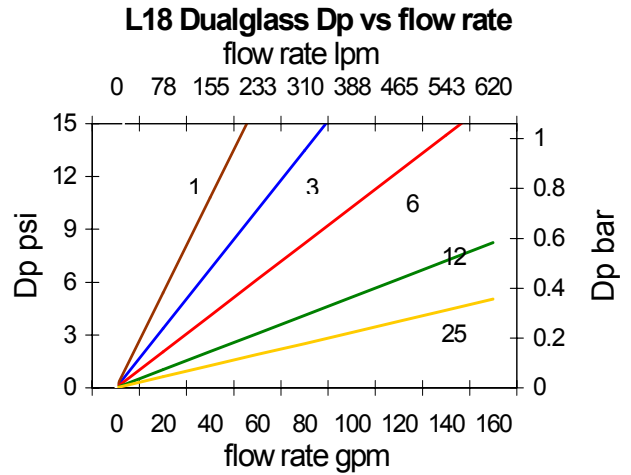
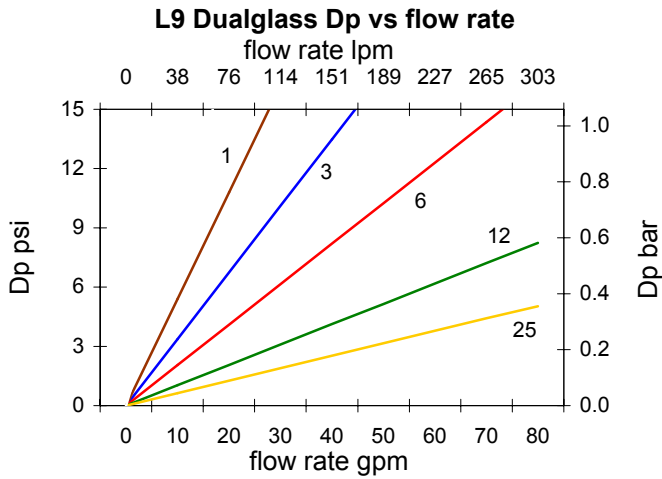
### Tested to ISO quality standards

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

### 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      table 4      table 5

# HP45 \_ \_ L \_ \_ - \_ \_ \_ \_ \_

code	Cap design
0	double open
5	single open

code	length
9	single
18	double

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)
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

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 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

code	seal
B	Nitrile
V	Fluoro
E	EPR





# HP4H/4N Series

interchanges Taisei Kogyo 03A, 04A, 06A, 06A 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 HP4N = 450 psid (30 bar)  
HP4H = 3000 psid (210 bar)

### Interchanges by series only:

(See interchange guide for exact cross Reference and complete part numbers)

P-G-UL-03A	HP4NL4
P-G-UL-04A	HP4NL4
P-G-UL-06A	HP4NL6
P-G-UL-08A	HP4NL6
P-F-UL-03A	HP4NL4
P-F-UL-04A	HP4NL4
P-F-UL-06A	HP4NL6
P-F-UL-08A	HP4NL6
P-UL-03A	HP4NL4
P-UL-04A	HP4NL4
P-UL-06A	HP4NL6
P-UL-08A	HP4NL6

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

### Media

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

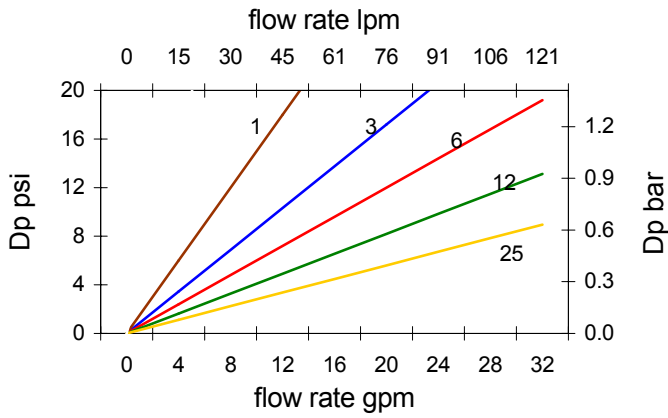
### Dynamic Filter Efficiency

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.

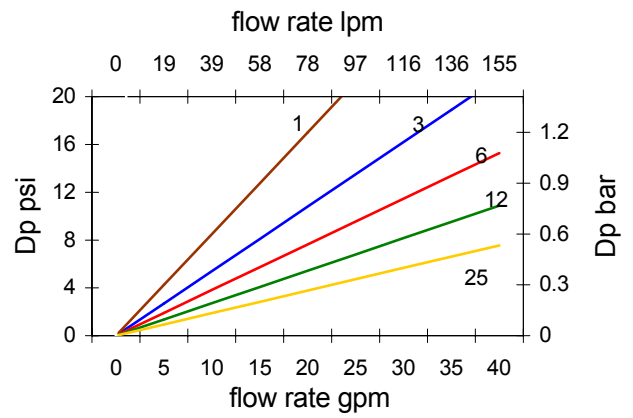
### Tested to ISO quality standards

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

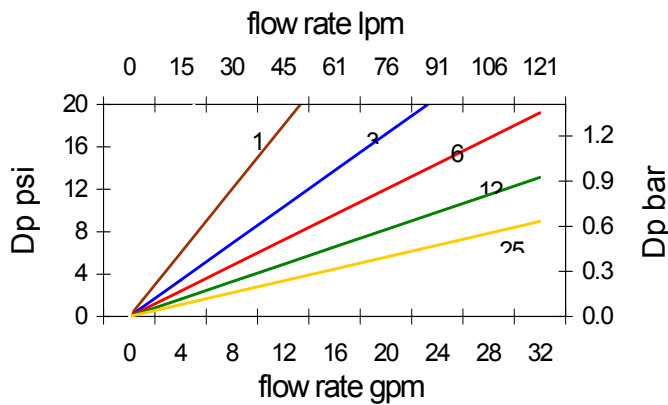
**HP4NL4 G6 Dualglass Dp vs flow rate**



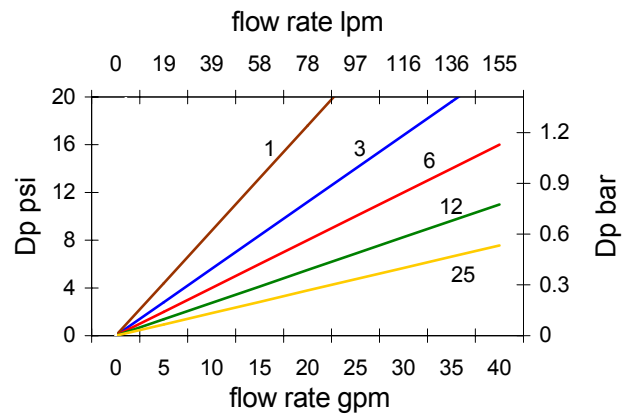
**HP4NL6 G6 Dualglass Dp vs flow rate**



**HP4HL4 G6 Dualglass Dp vs flow rate**



**HP4HL6 G6 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

**HP4 \_ \_ L \_ \_ - \_ \_ \_ \_ \_**

table 1	
code	collapse
N	450 psid
H	3000 psid

table 2	
code	length
4	single
6	double

table 3	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200)
20	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
50	50u 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 (buna)
V	Fluorocarbon
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





# 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

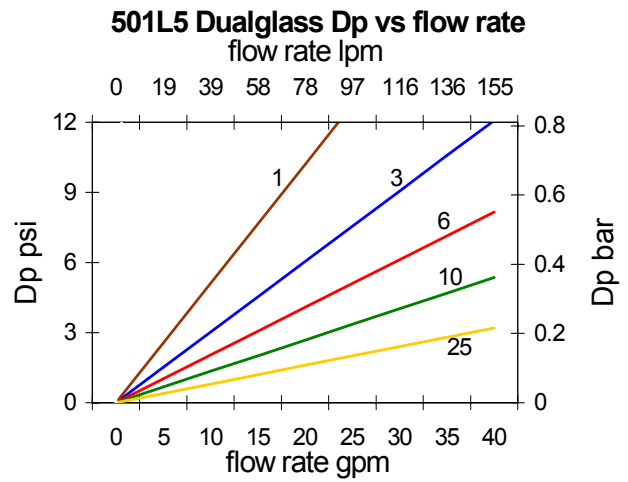
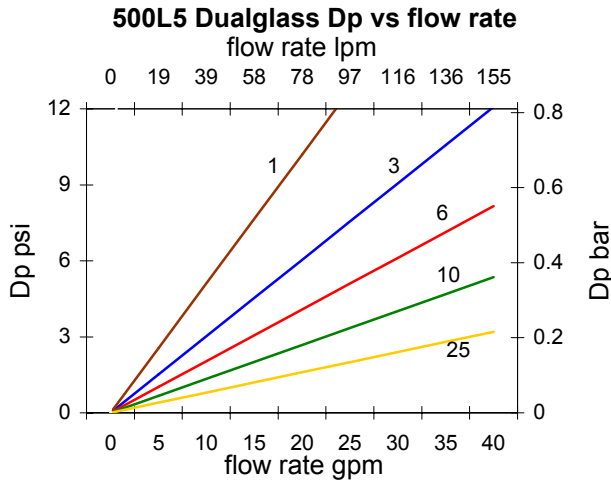
PTI	HY-PRO
PG-050-#H	HP500L5-##
PG-050-#U	HP501L5-##

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





# HP50/60/66 Series

Pall HC9650/HC9600/HC9606

## 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  
HP50 = 290 psid (20 bar)  
HP60 = 290 psid (20 bar)  
HP66 = 1000 psid (71 bar)

### Interchange

Pall	Hy-Pro
HC9600FKN13H	HP60L13-6MB
HC9600FKN16H	HP60L16-6MB
HC9600FKN4H	HP60L4-6MB
HC9600FKN8H	HP60L8-6MB
HC9600FKP13H	HP60L13-3MB
HC9600FKP16H	HP60L16-3MB
HC9600FKP4H	HP60L4-3MB
HC9600FKS13H	HP60L13-12MB
HC9600FKS16H	HP60L16-12MB
HC9600FKS4H	HP60L4-12MB
HC9600FKS8H	HP60L8-12MB
HC9600FKT13H	HP60L13-25MB
HC9600FKT16H	HP60L16-25MB
HC9600FKT4H	HP60L4-25MB
HC9600FKT8H	HP60L8-25MB
HC9600FKZ13H	HP60L13-1MB
HC9600FKZ16H	HP60L16-1MB
HC9600FKZ4H	HP60L4-1MB
HC9600FKZ8H	HP60L8-1MB
HC9650FKN16H	HP50L16-6MB
HC9650FKN8H	HP50L8-6MB
HC9650FKP16H	HP50L16-3MB
HC9650FKP8H	HP50L8-3MB
HC9650FKS16H	HP50L16-12MB
HC9650FKS8H	HP50L8-12MB
HC9650FKT16H	HP50L16-25MB
HC9650FKT8H	HP50L8-25MB
HC9650FKZ16H	HP50L16-1MB
HC9650FKZ8H	HP50L8-1MB

### 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.

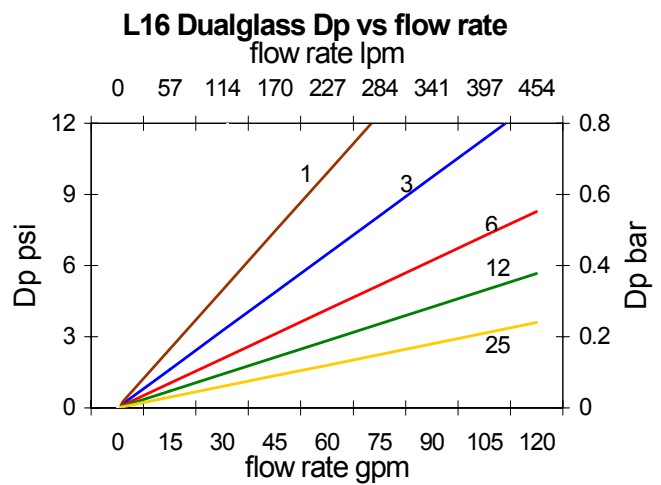
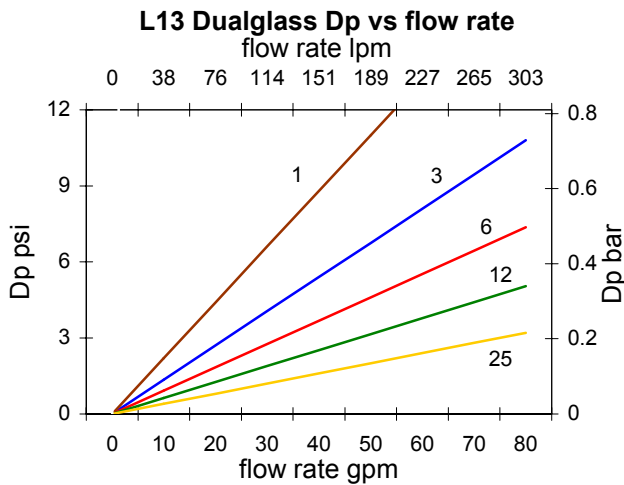
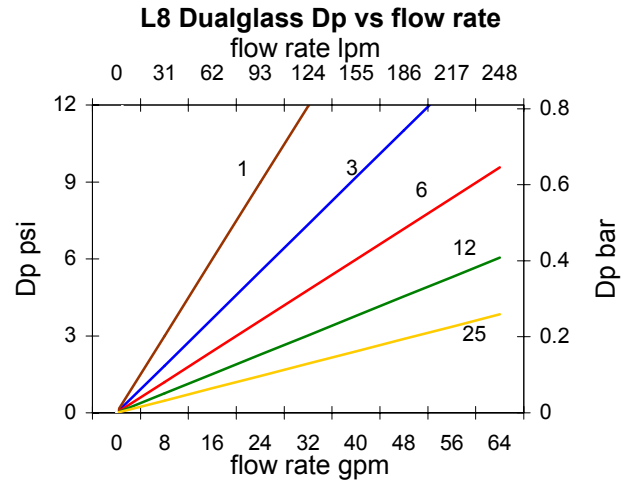
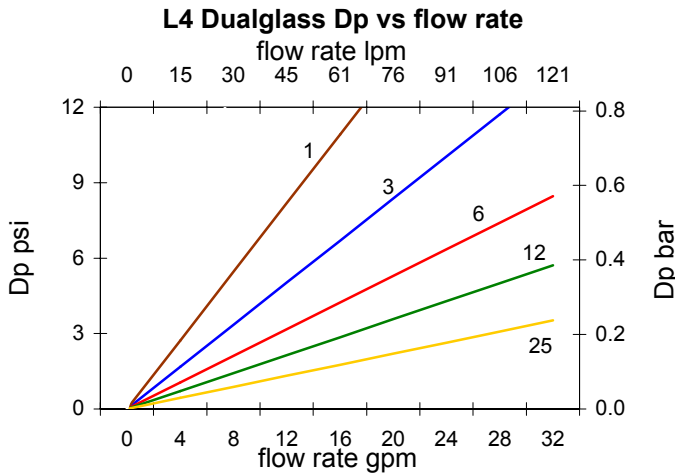
### Tested to ISO quality standards

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

### Fluid Compatibility

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

\*For Viton seals (where Pall p/n ends with Z) replace the B in Hy-Pro p/n with a V.



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1    table 2    table 3    table 4    table 5    table 6

# HP \_ \_ \_ L \_ \_ \_

table 1	
code	Element style
5	Double open
6	Single open

table 3	
code	length
4	single
8	double
13	triple
16	quad

table 2	
code	collapse
0	290 psid
6	1000 psid

table 4	
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 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 5	
code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 6	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP51/61 Series

interchanges Pall HC9651/HC9601

## 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 HP51 = 3000 psid (210 bar)  
HP61 = 3000 psid (210 bar)

### 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

### Interchange

Pall	Hy-Pro
HC9601FDP11H	HP61L11-2MB
HC9601FDP11YGE	HP61L11-2MV
HC9601FDP11ZYGE	HP61L11-2MV
HC9601FDP13H	HP61L13-2MB
HC9601FDP16H	HP61L16-2MB
HC9601FDP21H	HP61L21-2MB
HC9601FDP21YGE	HP61L21-2MV
HC9601FDP21ZYGE	HP61L21-2MV
HC9601FDP4H	HP61L4-2MB
HC9601FDP8H	HP61L8-2MB
HC9601FDT11H	HP61L11-15MB
HC9601FDT13H	HP61L13-15MB
HC9601FDT16H	HP61L16-15MB
HC9601FDT21H	HP61L21-15MB
HC9601FDT4H	HP61L4-15MB
HC9601FDT8H	HP61L8-15MB

HC9651FDP16H	HP51L16-2MB
HC9651FDP8H	HP51L8-2MB
HC9651FDT16H	HP51L16-15MB
HC9651FDT8H	HP51L8-15MB

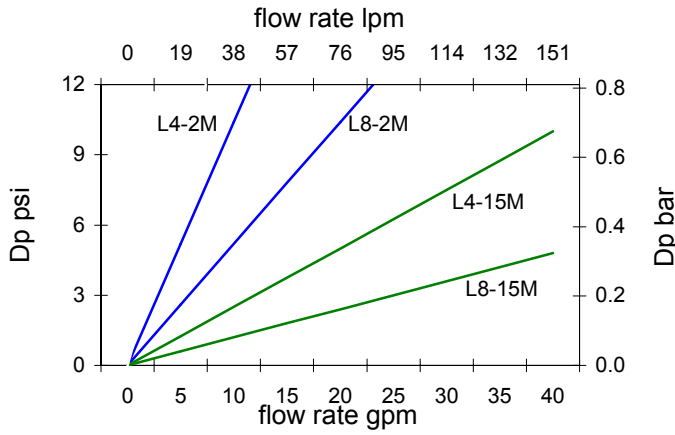
\*For Viton seals (where Pall p/n ends with Z) replace the B in Hy-Pro p/n with a V.

### Fluid Compatibility

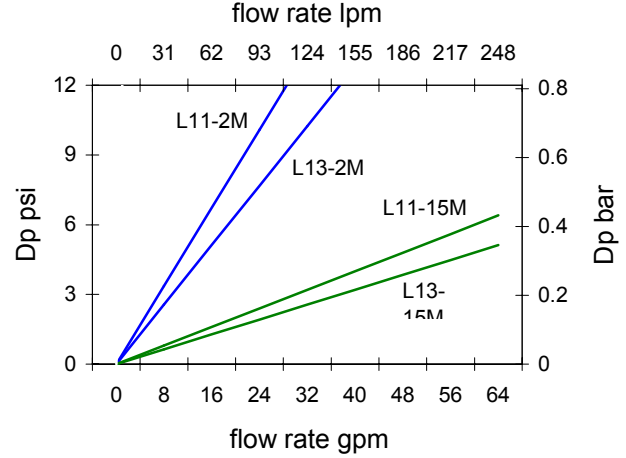
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



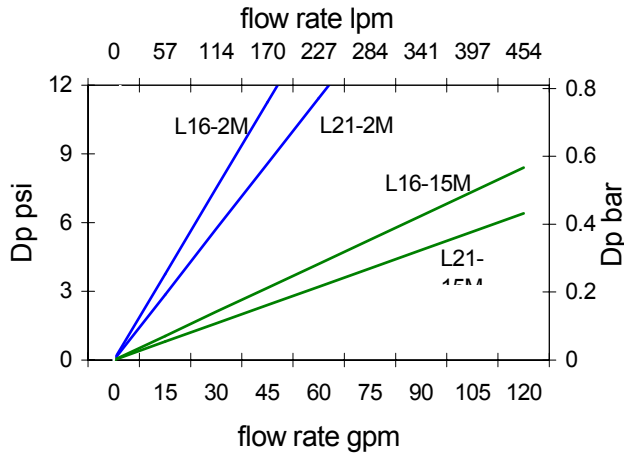
### L4/L8 Dualglass Dp vs flow rate



### L11/L13 Dualglass Dp vs flow rate



### L16/L21 Dualglass Dp vs flow rate



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP \_ 1L \_ - \_ \_ \_

code	Cap design
5	Double open
6	Single open

code	length
4	single
8	double
11	11 inch
13	triple
16	quad
21	21 inch

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
2	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
15	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200)

code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP52H/N/R series

Interchanges element by Internormen 01.E250, 01.E400 series

## 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 HP52N = 450 psid (31 bar)  
 HP52H = 3000 psid (210 bar)

### 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

### Fluid Compatibility

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

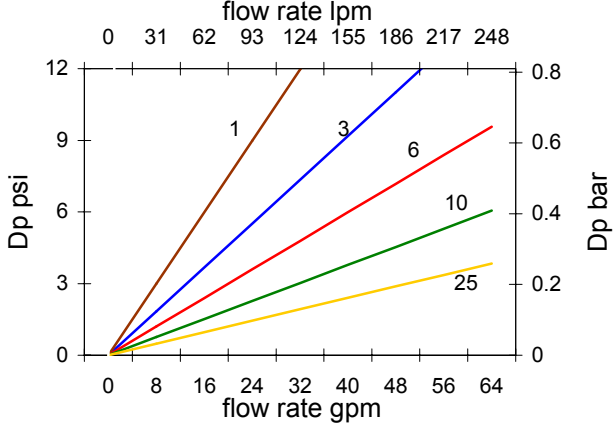
### Interchanges by series only: (See interchange guide for exact cross Reference and complete part numbers)

Internormen	Hy-Pro
01.E250.###.30.#.#	HP52NL10-### series
01.E250.###.HR.#.#	HP52HL10-### series
01.NL250.###.16.#.#	HP52NL10-### series
01.NL250.###.30.#.#	HP52NL10-### series
01.NL250.###.30.S.#	HP52RNL10-### series
01.NL250.###.HR.#.#	HP52HL10-### series
01.E400.###.30.#.#	HP52NL16-### series
01.E400.###.HR.#.#	HP52HL16-### series
01.NL400.###.16.#.#	HP52NL16-### series
01.NL400.###.30.#.#	HP52NL16-### series
01.NL400.###.30.S.#	HP52RNL16-### series
01.NL400.###.HR.#.#	HP52HL16-### series

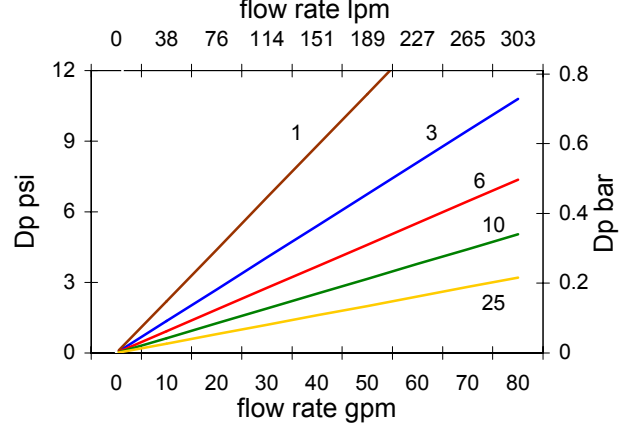
Available media selections include G6 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

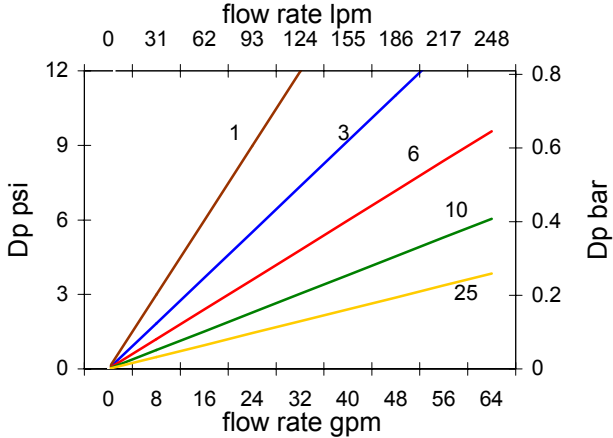
**52N/RNL10 Dualglass Dp vs flow rate**



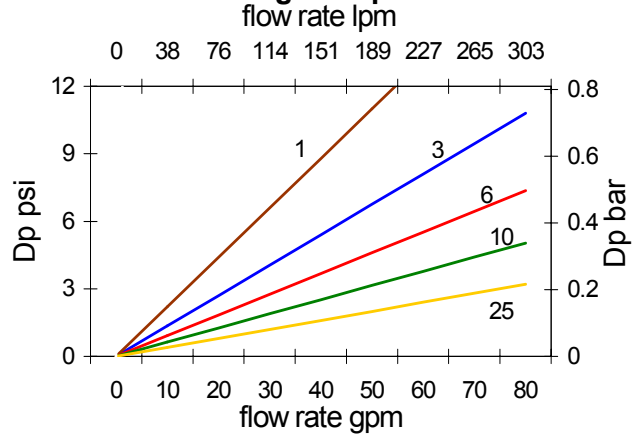
**52N/RNL16 Dualglass Dp vs flow rate**



**52HL10 Dualglass Dp vs flow rate**



**52HL16 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

# HP52 \_ \_ L \_ \_ - \_ \_ \_ \_ \_

code	collapse
H	300 psid
N	450 psid
RN	150 psid (25 psid bypass)

code	length
10	single
16	double

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200) or 10u nominal wire mesh
16	B19[C] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
130	149u nominal wire mesh

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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





# HP53H/53N series

Interchanges element for Norman 535 and 536 pressure filter series

## 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 HP53N = 450 psid (31 bar)  
 HP53H = 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

Norman	Hy-Pro
535 _ _ _ A _	HP53NL4 series
535 _ _ _ C _	HP53HL4 series
535 _ _ _ D _	HP53HL4 series
535 _ _ _ F _	HP53NL4 series
535 _ _ _ R _	HP53NL4 series
536 _ _ _ A _	HP53NL6 series
536 _ _ _ C _	HP53HL6 series
536 _ _ _ D _	HP53HL6 series
536 _ _ _ F _	HP53NL6 series
536 _ _ _ R _	HP53NL6 series

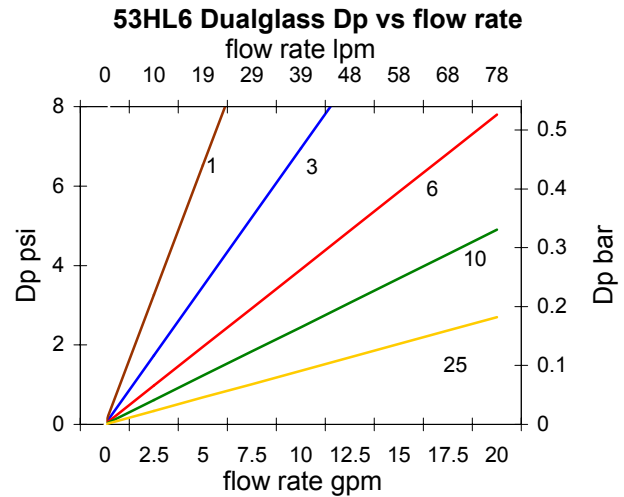
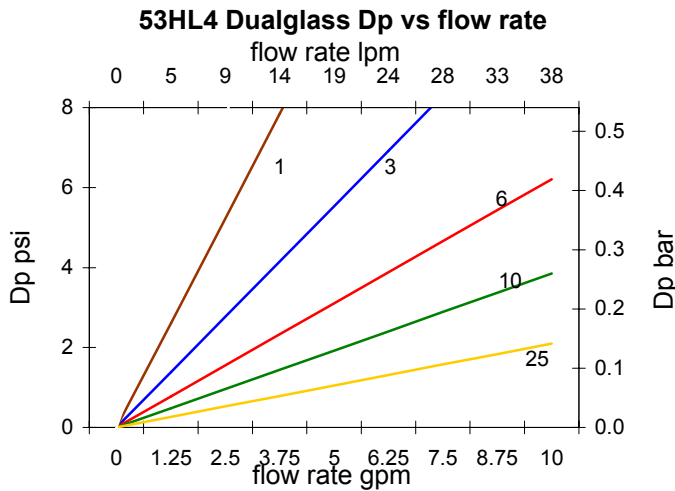
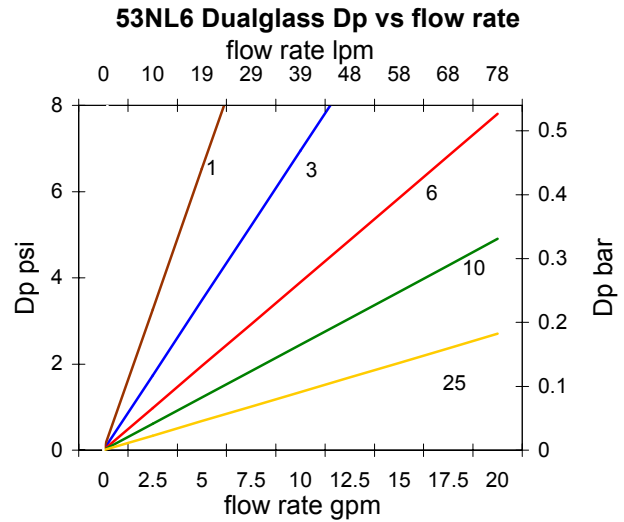
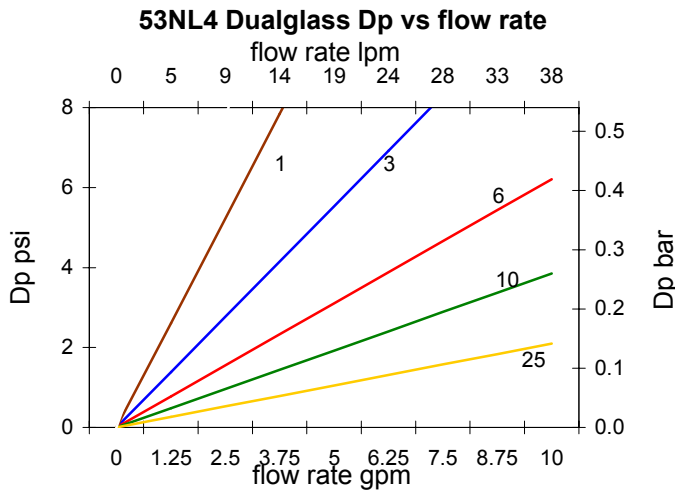
Available media selections include G6 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

### Fluid Compatibility

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





Pressure drop curves based on oil viscosity of 150 SUS, 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 Vis/150 x SG/0.86

table 1

table 2

table 3

table 4

table 5

# HP53 \_ L \_ - \_ \_ \_

code	collapse
H	3000 psid
N	450 psid

code	length
4	single
6	double

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

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 the 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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR





# HP57H/57N series

Interchanges element for EPE  
2.140#, 2.225#, 2.360#, 2.460#

## 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 HP57H = 450 psid (31 bar)  
HP57N = 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

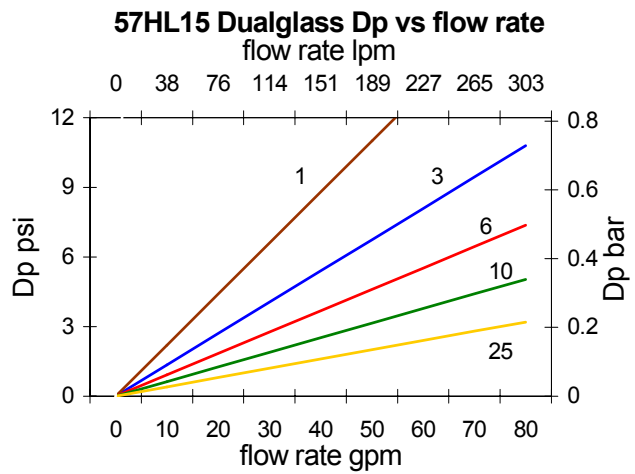
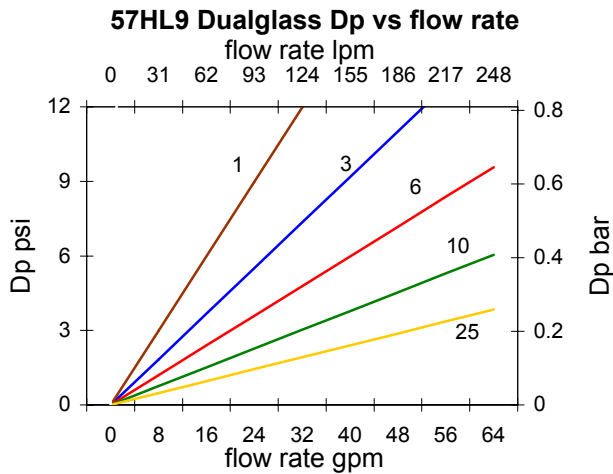
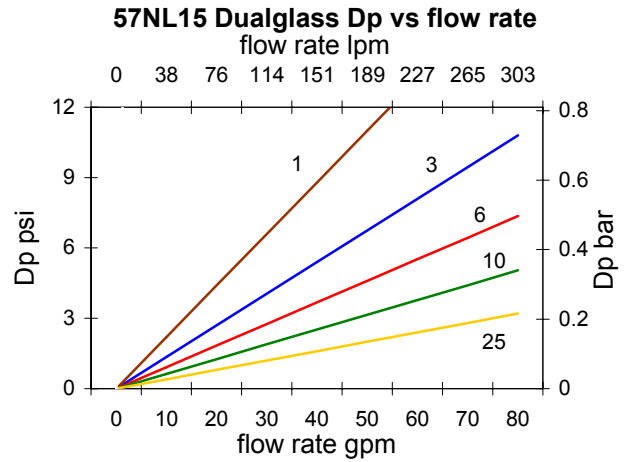
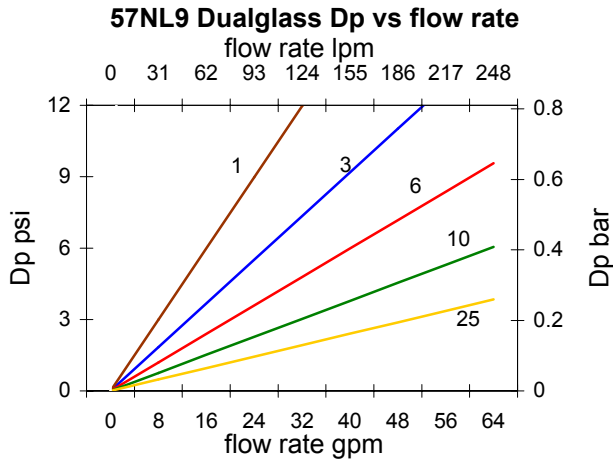
EPE	Hy-Pro
2.140-_-A_-_-	HP57NL6 series
2.140-_-B_-_-	HP57HL6 series
2.225-_-A_-_-	HP57NL9 series
2.225-_-B_-_-	HP57HL9 series
2.360-_-A_-_-	HP57NL11 series
2.360-_-B_-_-	HP57HL11 series
2.460-_-A_-_-	HP57NL15 series
2.460-_-B_-_-	HP57HL15 series

Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

### 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:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/141 \times \text{Actual SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP57 \_ \_ L \_ \_ - \_ \_ \_ \_

code	collapse
H	3000 psid
N	450 psid

code	length
6	single
9	double
11	triple
15	quad

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
100	149u nominal wire mesh

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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





# HP58H/58N series

Interchanges element for Norman 587 and 588 pressure filter series

## 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 HP58N = 450 psid (31 bar)  
 HP58H = 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

Norman	Hy-Pro
587 _ _ _ A _	HP58NL7 series
587 _ _ _ C _	HP58HL7 series
587 _ _ _ D _	HP58HL7 series
587 _ _ _ F _	HP58NL7 series
587 _ _ _ R _	HP58NL7 series
588 _ _ _ A _	HP58NL10 series
588 _ _ _ C _	HP58HL10 series
588 _ _ _ D _	HP58HL10 series
588 _ _ _ F _	HP58NL10 series
588 _ _ _ R _	HP58NL10 series

Available media selections include G6 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

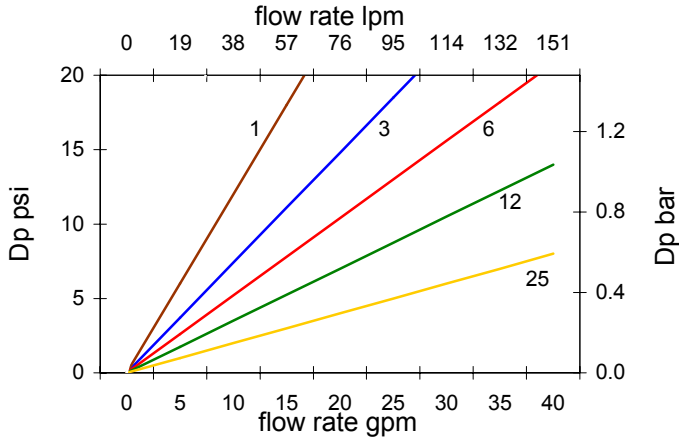
### Fluid Compatibility

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

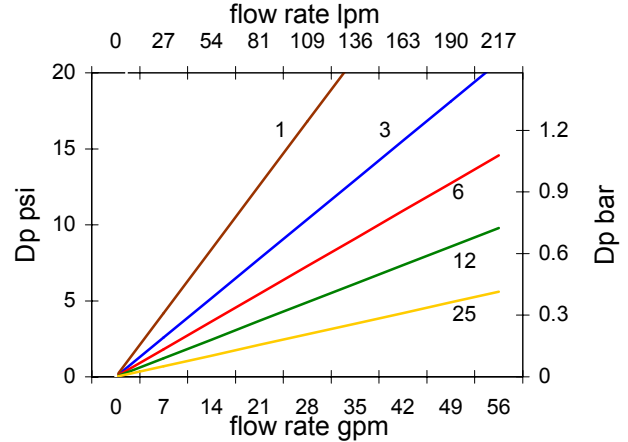




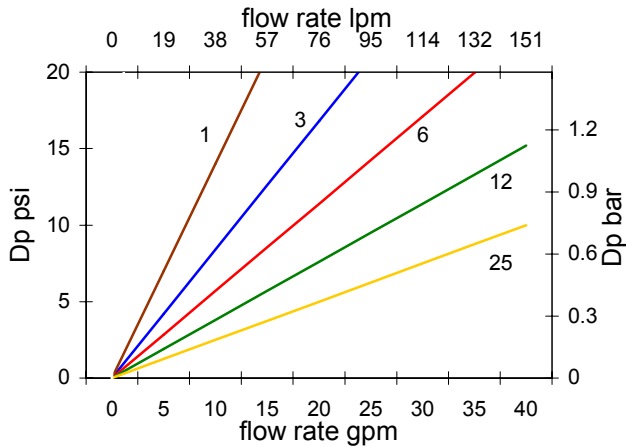
**HP58NL7 Dualglass Dp vs flow rate**



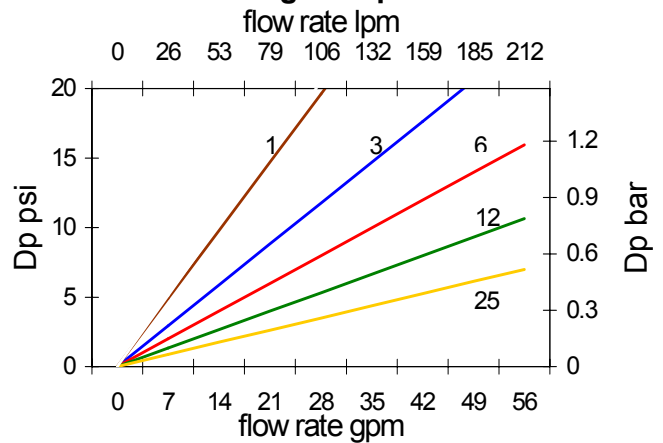
**HP58NL10 Dualglass Dp vs flow rate**



**HP58HL7 Dualglass Dp vs flow rate**



**HP58HL10 Dualglass Dp vs flow rate**



Pressure drop curves based on oil viscosity of 150 SUS, 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 Vis/150 x SG/0.86

table 1

table 2

table 3

table 4

table 5

# HP58 \_ L \_ - \_ \_ \_

code	collapse
H	3000 psid
N	450 psid

code	length
7	single
10	double

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

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 the 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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR





# HP5H/5N Series

interchanges Taisei Kogyo  
10A, 12A, 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 HP5N = 450 psid (30 bar)  
HP5H = 3000 psid (210 bar)

### Interchanges by series only:

**(See interchange guide for exact cross  
Reference and complete part numbers)**

P-G-UL-10A	HP5NL8
P-G-UL-12A	HP5NL8
P-G-UL-10A-##MH	HP5HL8
P-G-UL-12A-##MH	HP5HL8

P-F-UL-10A	HP5NL8
P-F-UL-12A	HP5NL8
P-F-UL-10A-##MH	HP5HL8
P-F-UL-12A-##MH	HP5HL8

P-UL-10A	HP5NL8
P-UL-12A	HP5NL8
P-UL-10A-##MH	HP5HL8
P-UL-12A-##MH	HP5HL8

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

### Media

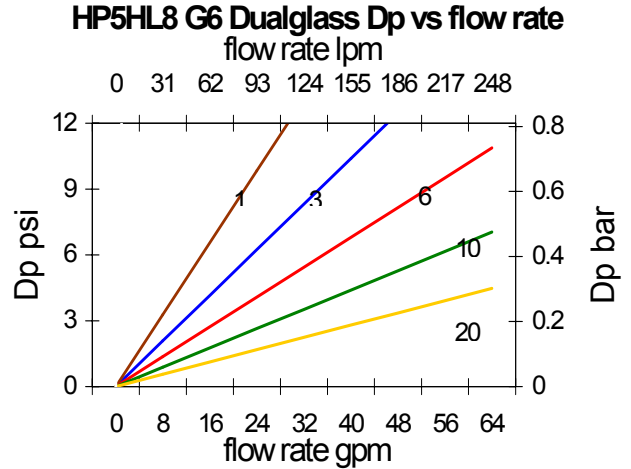
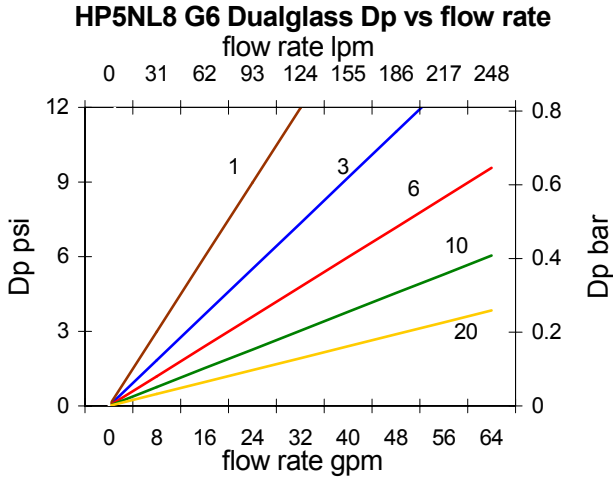
G6 media pleat pack features our latest generation of graded density glass media that delivers required cleanliness while optimizing dirt capacity.

### 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



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1

table 2

table 3

table 4

# HP5 \_\_\_ L8 - \_\_\_

table 1	
code	collapse
N	450 psid
H	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	B12[c] = 1000 (B12 = 200)
20	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
50	50u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u 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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR





# HP602 series

Interchanges \*Pall HC6200 element series.

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
 -20f to 250f, -29c to 120c (viton)  
 Max flow rate 70 gpm (110 lpm)  
 Element collapse HP602 = 290 psid (20 bar)

### 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

### Fluid Compatibility

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

### Interchange

Pall	Hy-Pro
HC6200FKN13H	HP602L13-6MB
HC6200FKN4H	HP602L4-6MB
HC6200FKN8H	HP602L8-6MB
HC6200FKP13H	HP602L13-3MB
HC6200FKP4H	HP602L4-3MB
HC6200FKP8H	HP602L8-3MB
HC6200FKS13H	HP602L13-12MB
HC6200FKS4H	HP602L4-12MB
HC6200FKS8H	HP602L8-12MB
HC6200FKT13H	HP602L13-25MB
HC6200FKT4H	HP602L4-25MB
HC6200FKT8H	HP602L8-25MB
HC6200FKZ13H	HP602L13-1MB
HC6200FKZ4H	HP602L4-1MB
HC6200FKZ8H	HP602L8-1MB

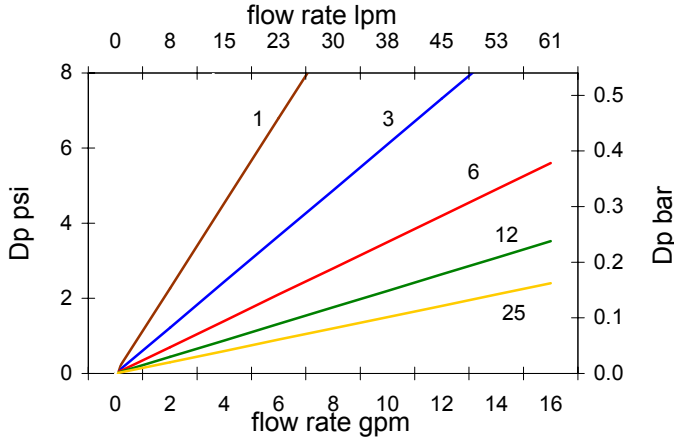
\*for Pall HC6204 series replace HP602 with HP604 for coreless element option.

For viton seals where Pall p/n ends with Z replace B in Hy-Pro p/n with V.

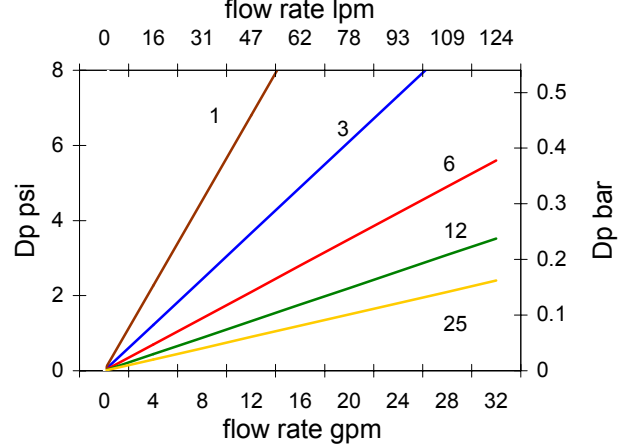
\*Pall is a registered trademark of the Pall Corporation



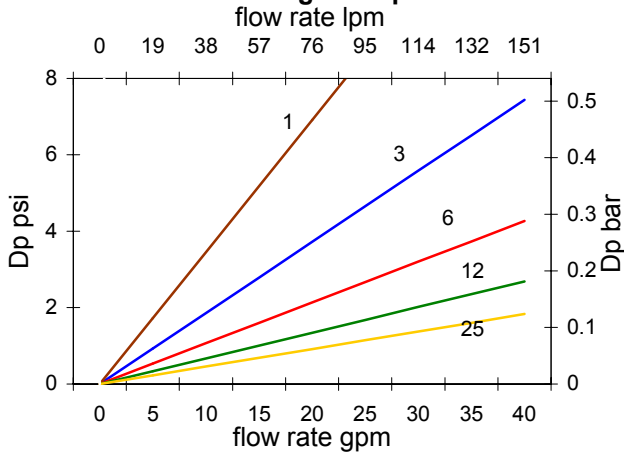
**600/604L4 Dualglass Dp vs flow rate**



**602/604L8 Dualglass Dp vs flow rate**



**602/604L13 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use:

**DP element =**  
**DP curve x Actual Viscosity/150 x Actual SG/0.86**

table 1

table 2

table 3

table 4

table 5

**HP60 \_ L \_ - \_ \_ \_**

table 1	
code	collapse
2	290 psid
4	150 psid coreless

table 2	
code	length
4	single
8	double
13	triple

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	B10[c] = 1000 (B10 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u 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	Fluorocarbon
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 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





# HP63 Series

Interchanges for Pall Pressure filter  
HC6300 series

## 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 250 psid (210 bar)

### Interchange

#### Pall

HC6300F#N8H  
HC6300F#P8H  
HC6300F#S8H  
HC6300F#T8H  
HC6300F#Z8H  
HC6300F#N13H  
HC6300F#P13H  
HC6300F#S13H  
HC6300F#T13H  
HC6300F#Z13H  
HC6300F#N16H  
HC6300F#P16H  
HC6300F#S16H  
HC6300F#T16H  
HC6300F#Z16H

#### Hy-Pro

HP63L8-6MB  
HP63L8-3MB  
HP63L8-12MB  
HP63L8-25MB  
HP63L8-1MB  
HP63L13-6MB  
HP63L13-3MB  
HP63L13-12MB  
HP63L13-25MB  
HP63L13-1MB  
HP63L16-6MB  
HP63L16-3MB  
HP63L16-12MB  
HP63L16-25MB  
HP63L16-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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

### Media

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

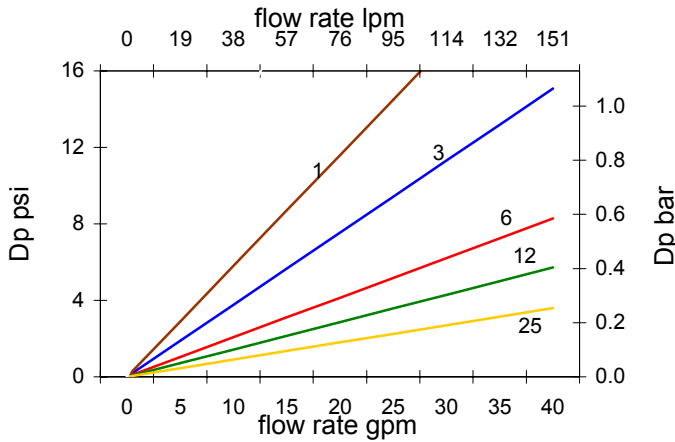
### Dynamic Filter Efficiency

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.

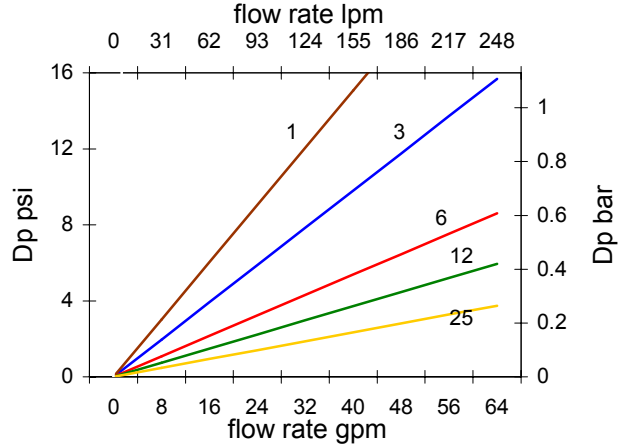
### Tested to ISO quality standards

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

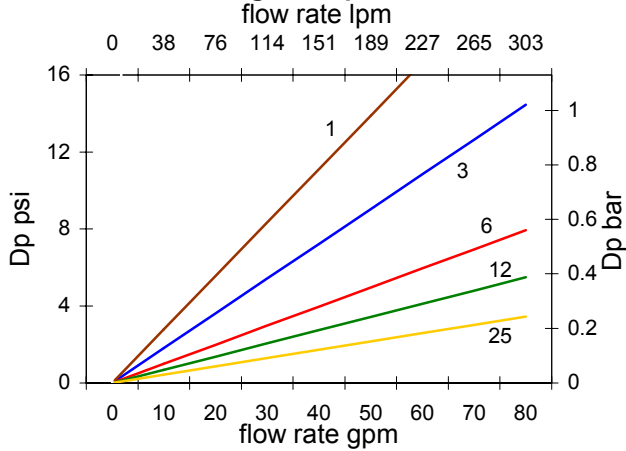
**L8 Dualglass Dp vs flow rate**



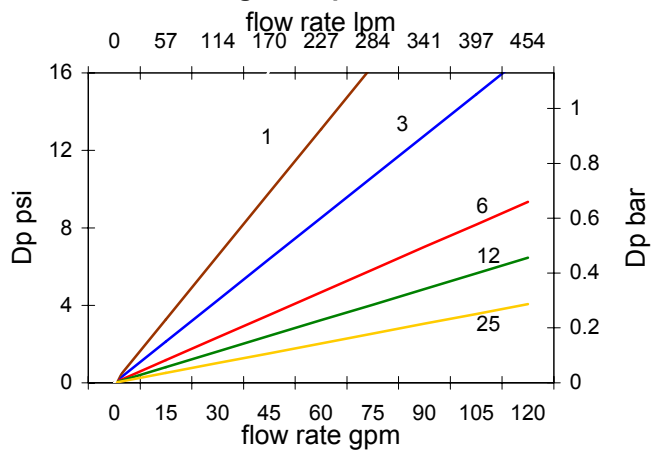
**L13 Dualglass Dp vs flow rate**



**L16 Dualglass Dp vs flow rate**



**L26 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

**DP element = DP curve x Viscosity/150 x SG/0.86**

table 1      table 2      table 3      table 4

**HP63L**    -    -    -    -

table 1	code	length
	8	single
	13	double
	16	triple
	26	quad

table 2	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
	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

table 4	code	seal
	B	Nitrile (buna)
	V	Fluorocarbon
	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





# HP64 Series

Interchanges for Pall Pressure filter  
HC6400 series

## 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 250 psid (210 bar)

### Interchange

#### Pall

HC6400F#N8H  
HC6400F#P8H  
HC6400F#S8H  
HC6400F#T8H  
HC6400F#Z8H  
HC6400F#N13H  
HC6400F#P13H  
HC6400F#S13H  
HC6400F#T13H  
HC6400F#Z13H  
HC6400F#N16H  
HC6400F#P16H  
HC6400F#S16H  
HC6400F#T16H  
HC6400F#Z16H  
HC6400F#N16H  
HC6400F#P16H  
HC6400F#S16H  
HC6400F#T16H  
HC6400F#Z16H

#### Hy-Pro

HP64L8-6MB  
HP64L8-3MB  
HP64L8-12MB  
HP64L8-25MB  
HP64L8-1MB  
HP64L13-6MB  
HP64L13-3MB  
HP64L13-12MB  
HP64L13-25MB  
HP64L13-1MB  
HP64L16-6MB  
HP64L16-3MB  
HP64L16-12MB  
HP64L16-25MB  
HP64L16-1MB  
HP64L16-6MB  
HP64L16-3MB  
HP64L16-12MB  
HP64L16-25MB  
HP64L16-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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

### Media

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

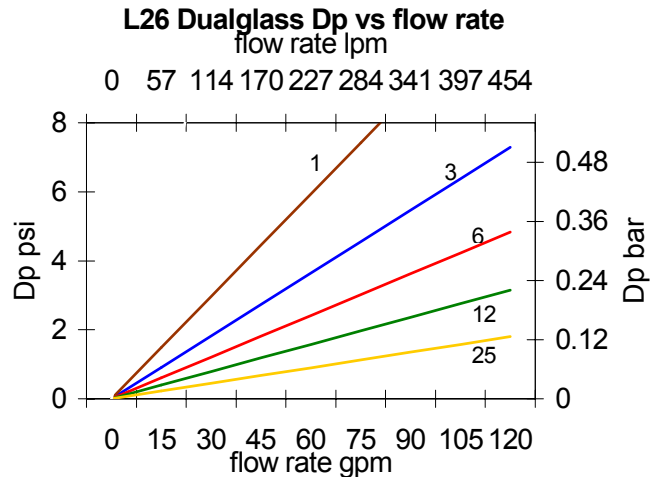
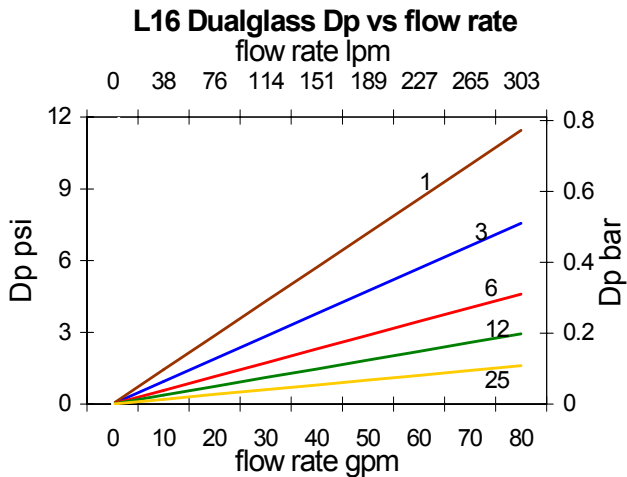
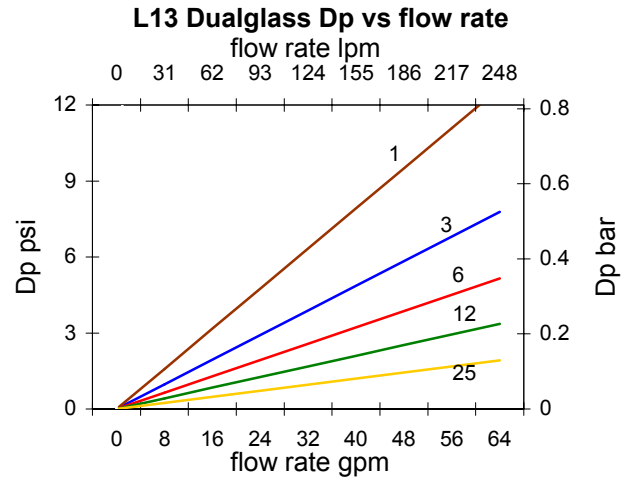
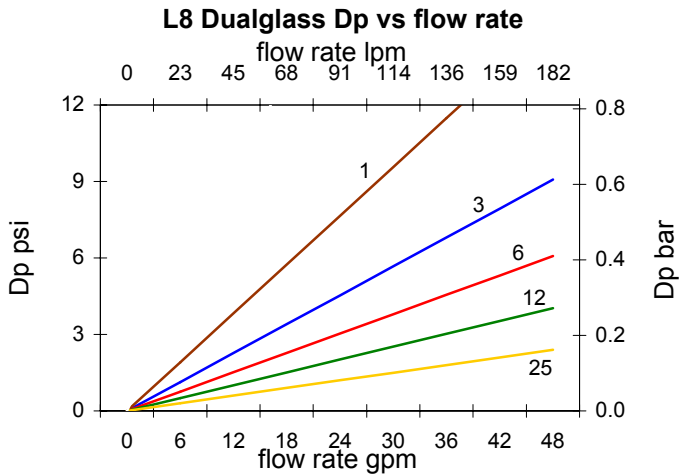
### Dynamic Filter Efficiency

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





## 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

# HP64L \_\_\_\_\_ - \_\_\_\_\_

table 1	code	length
	8	single
	13	double
	16	triple
	26	quad

table 2	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 3	code	Media
	A	G6 Dualglass w/water removal
	M	G6 Dualglass
	SF	Dynafuzz
	W	wire mesh

table 4	code	seal
	B	Nitrile (buna)
	V	Fluorocarbon
	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





# HP65 Series

Interchanges for Pall Pressure filter  
HC6500 series

## 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 250 psid (210 bar)

### 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

### Interchange Pall

HC6500F#N13H  
HC6500F#P13H  
HC6500F#S13H  
HC6500F#T13H  
HC6500F#Z13H  
HC6500F#N16H  
HC6500F#P16H  
HC6500F#S16H  
HC6500F#T16H  
HC6500F#Z16H  
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HC6500F#T16H  
HC6500F#Z16H

### Hy-Pro

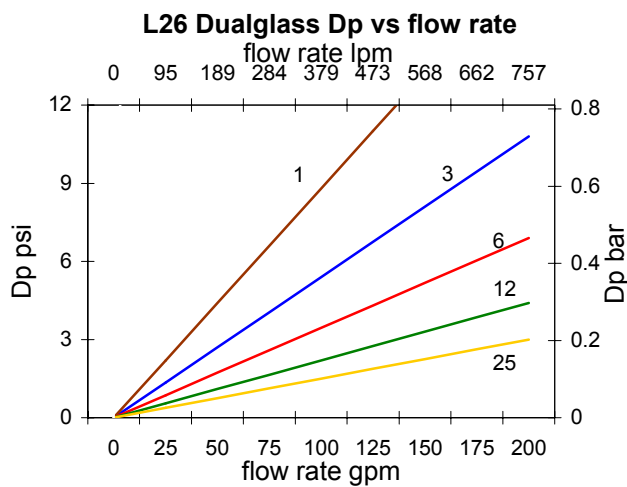
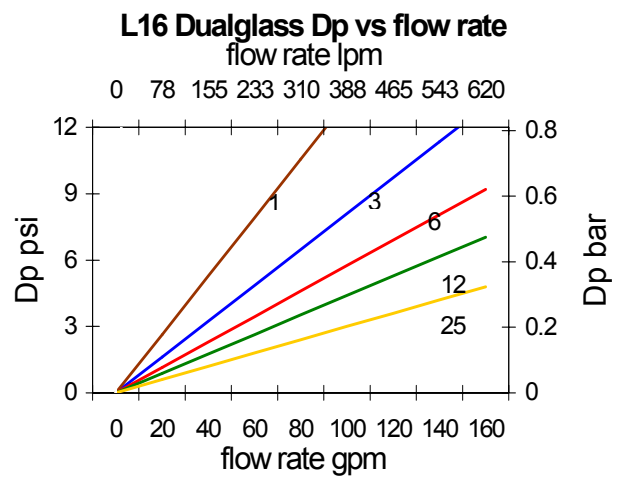
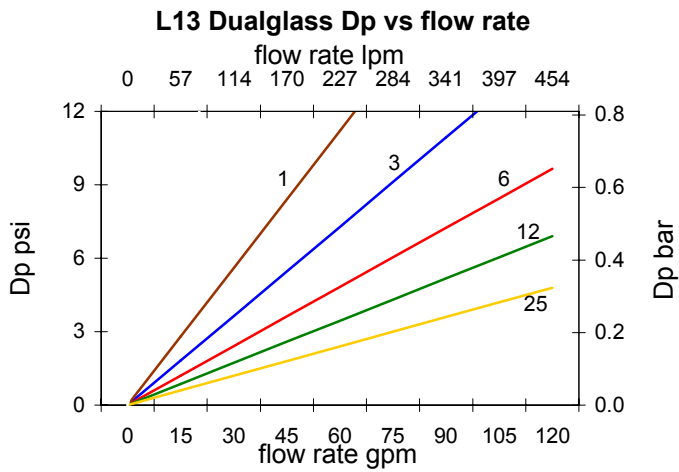
HP65L13-6MB  
HP65L13-3MB  
HP65L13-12MB  
HP65L13-25MB  
HP65L13-1MB  
HP65L16-6MB  
HP65L16-3MB  
HP65L16-12MB  
HP65L16-25MB  
HP65L16-1MB  
HP65L16-6MB  
HP65L16-3MB  
HP65L16-12MB  
HP65L16-25MB  
HP65L16-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1      table 2      table 3      table 4

# HP65L \_\_\_\_\_ - \_\_\_\_\_

code	length
13	single
16	double
26	triple

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

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP66RN Series

Interchanges Hydac 0660/0850R

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature:	-45f to 225f, -43c to 107c (buna) -20f to 250f, -29c to 120c (viton)
Max flow rate	130 gpm (500 lpm)
Element collapse	250 psid (17 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0660R003BN3HC	HP66RNL14-3MB
0660R003BNHC	HP66RNL14-3MB
0660R005BN3HC	HP66RNL14-6MB
0660R005BNHC	HP66RNL14-6MB
0660R010BN3HC	HP66RNL14-12MB
0660R010BNHC	HP66RNL14-12MB
0660R020BN3HC	HP66RNL14-25MB
0660R020BNHC	HP66RNL14-25MB
0850R003BN3HC	HP66RNL18-3MB
0850R003BNHC	HP66RNL18-3MB
0850R005BN3HC	HP66RNL18-6MB
0850R005BNHC	HP66RNL18-6MB
0850R010BN3HC	HP66RNL18-12MB
0850R010BNHC	HP66RNL18-12MB
0850R020BN3HC	HP66RNL18-25MB
0850R020BNHC	HP66RNL18-25MB

1700R series                      HP66RNL31.25-###

\*for viton (Hydac ends /-V) seals replace "B" in HP no. with "V".

\*other media types than "BNHC" or "BN3HC" available are "W", "BN", "P", "P/HC" 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

### 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.

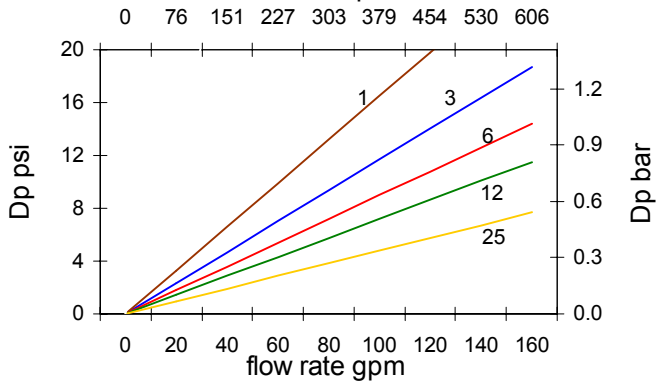
### Bypass Valve

Zero leak, soft seat design eliminates inherently

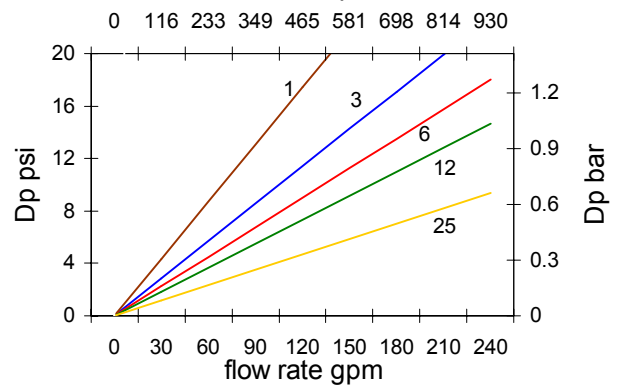
### Tested to ISO quality standards

ISO2941	Collapse and burst resistance
ISO2942	Fabrication and Integrity test
ISO2943	Material compatibility with fluids
ISO3724	Flow fatigue characteristics
ISO3968	Pressure drop vs. flow rate
ISO16889	Multi-pass performance testing

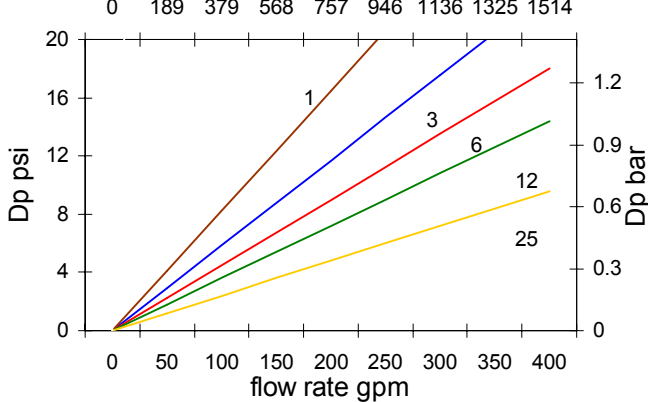
**L14 G6 Dualglass Dp vs flow rate**  
flow rate lpm



**L18 G6 Dualglass Dp vs flow rate**  
flow rate lpm



**L31.25 G6 Dualglass Dp vs flow rate**  
flow rate lpm



### 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:

$$\text{New DP element} = \text{DP curve} \times \text{Actual Viscosity} / 141 \times \text{Actual SG} / 0.86$$

table 1      table 2      table 3      table 4      table 5      table 6      table 7

# HP66RNL

code	length
14	single
18	double
31.25	extended

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

code	Element OD
omit	Standard
S	reduced capacity

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
12	B10[c] = 1000 (B10 = 200)
17	B15[c] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal 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 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

code	bypass
omit	With bypass valve (43psid standard)
C	blocked bypass

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

code	special option
PC	special coating for HWBF
87	87 psid bypass



# HP67H/67N series

Interchanges element for EPE  
2.0020#, 2.0030#, 2.0045#

## Hy-Pro G5 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f , -43c to 107c(buna)  
-20f to 250f , -29c to 120c(viton)  
Element collapse HP67N = 450 psid (31 bar)  
HP67H = 3000 psid (210 bar)

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

### Media

G5 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

EPE	Hy-Pro
2.0020-__A-__-__	HP67NL6 series
2.0020-__B-__-__	HP67HL6 series
2.0030-__A-__-__	HP67NL10 series
2.0030-__B-__-__	HP67HL10 series
2.0045-__A-__-__	HP67NL15 series
2.0045-__B-__-__	HP67HL15 series

Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

### Fluid Compatibility

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

Pressure drop curves based on oil viscosity of 150 SUS, 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 Vis/150 x SG/0.86

table 1      table 2      table 3      table 4      table 5

# HP67 \_ \_ L \_ \_ - \_ \_ \_ \_ \_

code	collapse
H	3000 psid
N	450 psid

code	length
6	4 inch
10	6 inch
15	10 inch

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
100	149u nominal wire mesh

code	media type
M	G5 Dualglass
SF	Dynafuzz
W	wire mesh

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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



# HP74/76/76V series

Spin-on interchange element



## 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 burst: HP74 = 150 psid (10 bar)  
HP76 = 100 psid (7.1 bar)  
HP76V = 150 psid (10 bar)

**Interchange by series: (For complete part numbers and more cross references consult the interchange guide)**

Pall	Hy-Pro
HC7400S##4H	HP74L4-#MB
HC7400S##4Z	HP74L4-#MV
HC7400S##8H	HP74L8-#MB
HC7400S##8Z	HP74L8-#MV

Parker	Hy-Pro
12-AT	HP76L4-##B

Vickers	Hy-Pro
573082	HP76VL4-10CB
573083	HP76VL4-25CB
V0191B1R03	HP76VL4-3MB
V0191B1R05	HP76VL4-6MB
V0191B1R10	HP76VL4-12MB
V0191B1R20	HP76VL4-25MB
V0191B2R03	HP76VL8-3MB
V0191B2R05	HP76VL8-6MB
V0191B2R10	HP76VL8-12MB
V0191B2R20	HP76VL8-25MB

\*For Viton seals replace the B in Hy-Pro p/n with V.

\*For cellulose media replace M in Hy-Pro part number with C (HP76/HP76V series only).

### 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

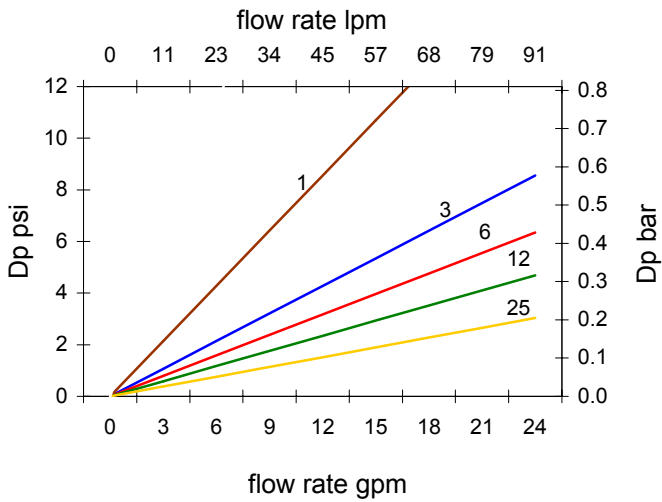
ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

### Fluid Compatibility

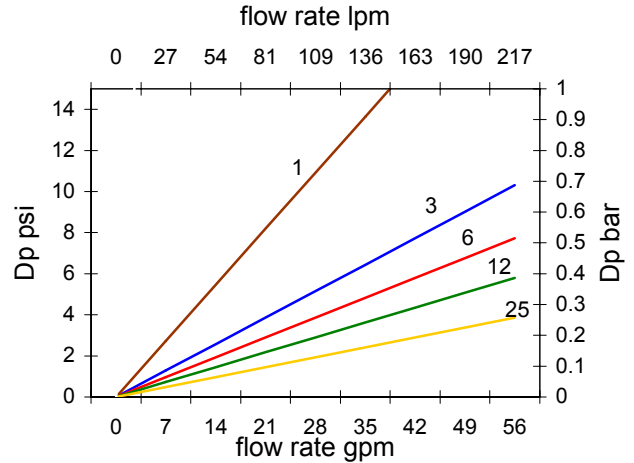
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



**L4 Dualglass Dp vs flow rate**



**L8 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 Vis/141 x SG/0.86**

table 1      table 2      table 3      table 4      table 5

**HP7 \_ \_ L \_ \_ - \_ \_ \_ \_**

code	tap plate style
4	ID = 1 1/2" - 16UN
6	ID = 1" - 12UN
6V	ID = 1 1/8" - 16UN-2B

code	length
4	single
8	double

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200) or 3u nominal cellulose*
6	B7[c] = 1000 (B6 = 200)
12	B12[c] = 1000 (B12 = 200)
10	10u nominal cellulose*
25	B22[c] = 1000 (B25 = 200) or 25u nominal cellulose*

\*HP76 & HP76V series only

code	media type
A	G6 Dualglass + water removal
C	Cellulose*
M	G6 Dualglass

\*HP76 series only

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

code	seal
B	Nitrile (buna)
E	EPR
V	Fluorocarbon





# HP75 Series

Interchanges for spin-on filter  
HC7500, 50-AT series

## 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 100 psid (210 bar)

### 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

### Fluid Compatibility

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

**Interchange by series: (For complete part numbers check the interchange guide)**

### Pall

HC7500S##4H  
HC7500S##4Z  
HC7500S##8H  
HC7500S##8Z

### Hy-Pro

HP75L4-#MB  
HP75L4-#MV  
HP75L8-#MB  
HP75L8-#MV

### Parker

50AT  
50AT-2

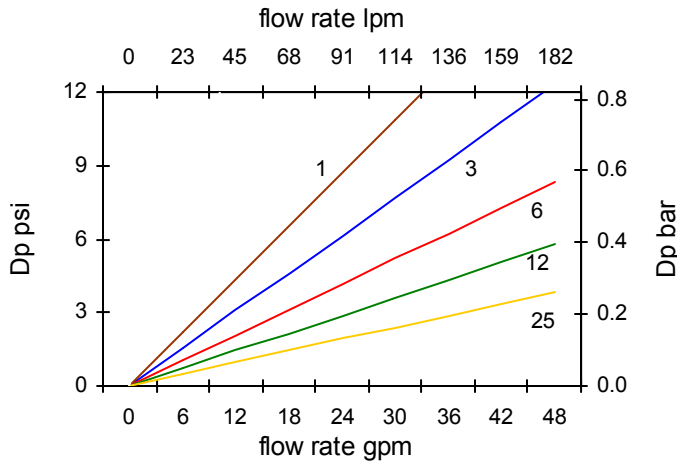
### Hy-Pro

HP75L4-##B  
HP75L8-##B

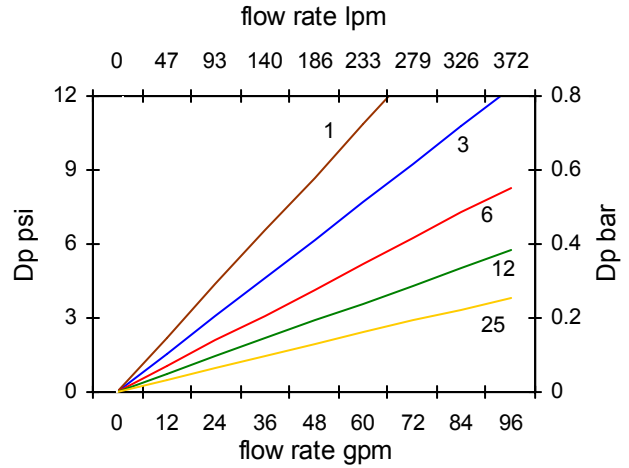
\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are available. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

### L4 Dualglass Dp vs flow rate



### L8 Dualglass Dp vs flow rate



## Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SUS, and specific gravity = 0.9. 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/150 x Actual SG/0.86**

table 1      table 2      table 3      table 4      table 5

# HP75L \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

table 1	
code	length
4	single
8	double

table 2	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200) or 3u nominal cellulose*
6	B7[c] = 1000 (B6 = 200)
12	B12[c] = 1000 (B12 = 200)
10	10u nominal cellulose*
25	B22[c] = 1000 (B25 = 200) or 25u nominal cellulose*

table 3	
code	media type
C	Cellulose
M	G6 Dualglass

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

table 5	
code	special option
PLP	water removal capabilities

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





# HP800/801 Series

PTI PG-080-#H and PG-080-#U,  
Mahle PI-##30 pressure filters

## Hy-Pro G6Dualglass High Performance Filter Elements

### Performance

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

Element collapse HP800 = 450 psid (30 bar)  
HP801 = 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-080-#H	HP800L10-##
PG-080-#U	HP801L10-##

MAHLE	HY-PRO
PI1030	HP800L10-##
PI1130	HP801L10-##
PI2130	HP800L10-##
PI2230	HP801L10-##
PI3130	HP800L10-##
PI3230	HP801L10-##
PI4130	HP800L10-##
PI4230	HP800L10-##
PI8230	HP800L10-##
PI8330	HP800L10-##
PI8430	HP800L10-##
PI8530	HP800L10-##
PI9130	HP800L10-##

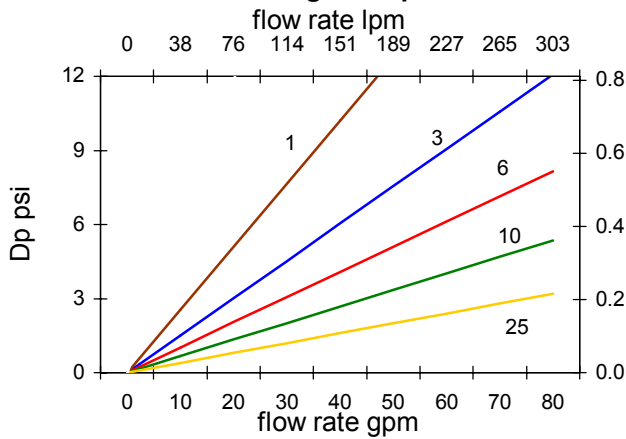
Water removal and Dynafuzz media also available.  
Call or consult the Hy-Pro on line interchange guide  
at [www.filterelement.com](http://www.filterelement.com)

### Fluid Compatibility

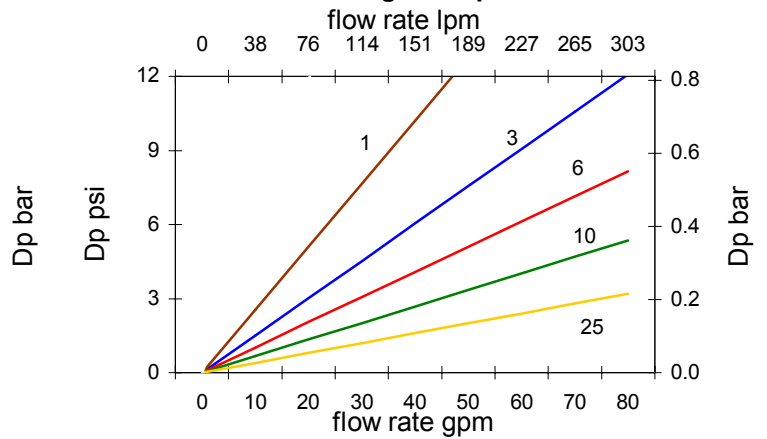
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



**HP800L10 Dualglass Dp vs flow rate**



**HP801L10 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

**HP80 \_\_ L10 - \_\_ \_\_**

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) or 25u nominal mesh
40	40u nominal mesh
50	50u nominal mesh
74	74u nominal mesh
100	100u nominal mesh
149	149u nominal 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 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





# HP80/87 Series

interchanges Pall HC9800/HC8700

## 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 290 psid (20 bar)

### Interchange

Pall	Hy-Pro
HC8700FKN13H	HP87L13-6MB
HC8700FKN4H	HP87L4-6MB
HC8700FKN8H	HP87L8-6MB
HC8700FKP13H	HP87L13-3MB
HC8700FKP4H	HP87L4-3MB
HC8700FKP8H	HP87L8-3MB
HC8700FKS13H	HP87L13-12MB
HC8700FKS4H	HP87L4-12MB
HC8700FKS8H	HP87L8-12MB
HC8700FKT13H	HP87L13-25MB
HC8700FKT4H	HP87L4-25MB
HC8700FKT8H	HP87L8-25MB
HC8700FKZ13H	HP87L13-1MB
HC8700FKZ4H	HP87L4-1MB
HC8700FKZ8H	HP87L8-1MB
HC9800FKN13H	HP80L13-6MB
HC9800FKN4H	HP80L4-6MB
HC9800FKN8H	HP80L8-6MB
HC9800FKP13H	HP80L13-3MB
HC9800FKP4H	HP80L4-3MB
HC9800FKS13H	HP80L13-12MB
HC9800FKS4H	HP80L4-12MB
HC9800FKS8H	HP80L8-12MB
HC9800FKT13H	HP80L13-25MB
HC9800FKT4H	HP80L4-25MB
HC9800FKT8H	HP80L8-25MB
HC9800FKZ13H	HP80L13-1MB
HC9800FKZ4H	HP80L4-1MB
HC9800FKZ8H	HP80L8-1MB

### 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.

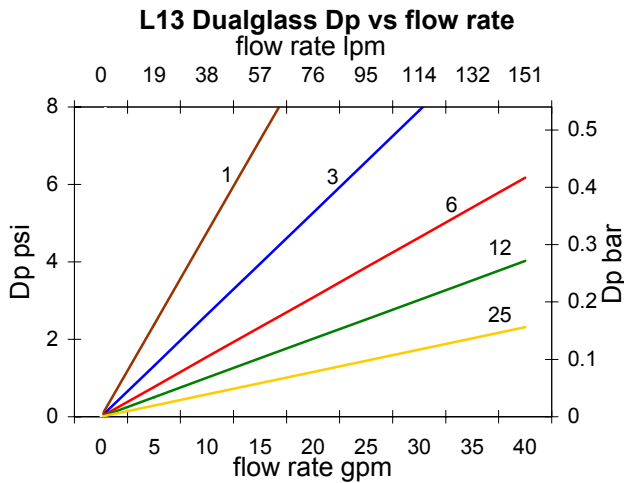
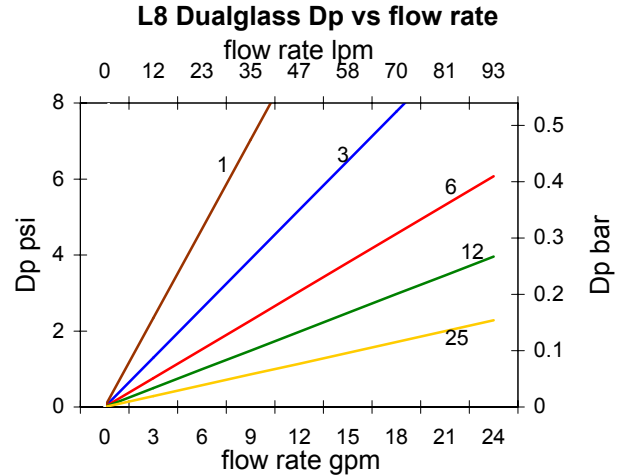
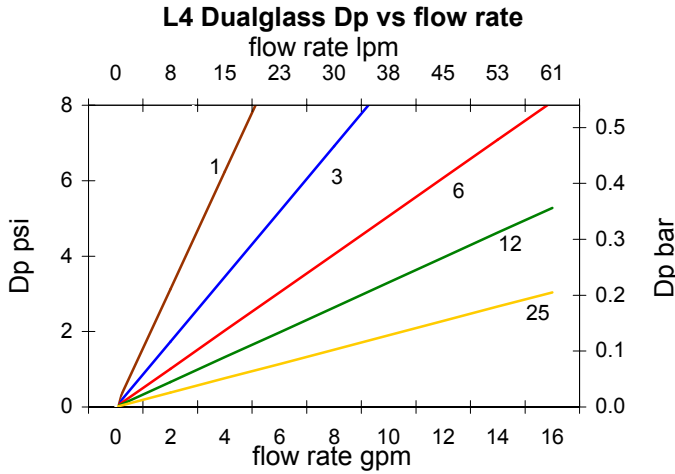
### Tested to ISO quality standards

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

### Fluid Compatibility

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

\*For Viton seals (where Pall p/n ends with Z) replace the B in Hy-Pro p/n with a V.



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP8 \_ L \_ - \_ \_ \_

table 1	
code	style
0	1 open end
7	2 open end

table 2	
code	length
4	single
8	double
13	triple

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
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 (buna)
V	Fluorocarbon
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



# HP81 Series

interchanges Pall HC9801 series

## 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 HP81 = 3000 psid (210 bar)

### 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

### Interchange

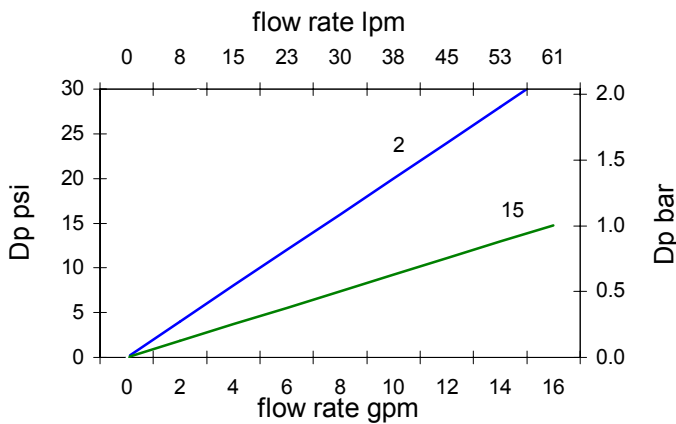
Pall	Hy-Pro
HC9801FDP13H	HP81L13-2MB
HC9801FDP13Z	HP81L13-2MV
HC9801FDP4H	HP81L4-2MB
HC9801FDP4Z	HP81L4-2MV
HC9801FDP8H	HP81L8-2MB
HC9801FDP8Z	HP81L8-2MV
HC9801FDT13H	HP81L13-15MB
HC9801FDT13Z	HP81L13-15MV
HC9801FDT4H	HP81L4-15MB
HC9801FDT4Z	HP81L4-15MV
HC9801FDT8H	HP81L8-15MB
HC9801FDT8Z	HP81L8-15MV

### Fluid Compatibility

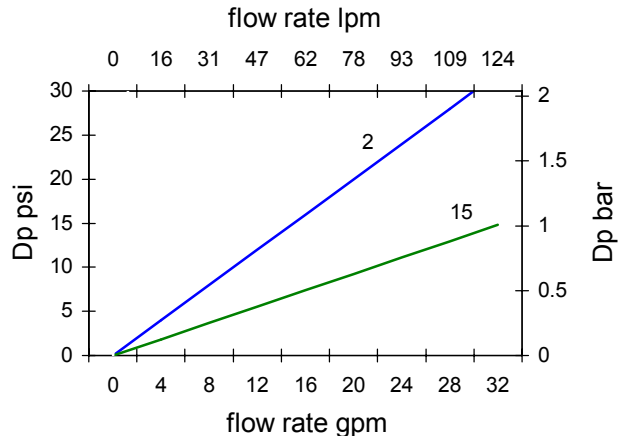
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



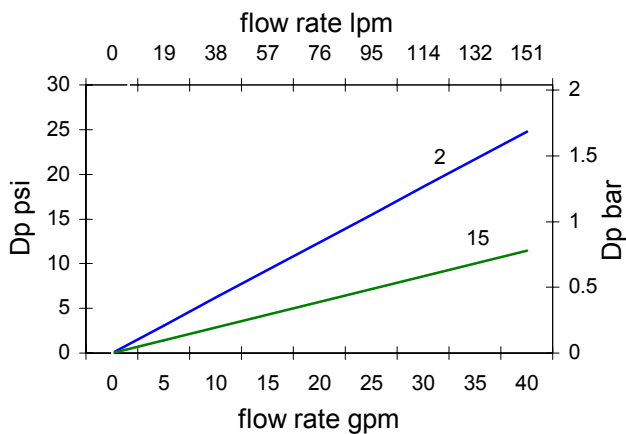
**L4 Dualglass Dp vs flow rate**



**L8 Dualglass Dp vs flow rate**



**L13 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 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 Vis/150 x SG/0.86**

table 1      table 2      table 3      table 4

**HP81L**         -               

code	length
4	4 inch
8	8 inch
13	13 inch

code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
2	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
15	B15[c] = 1000 (B17 = 200)
25	B22[c] = 1000 (B25 = 200)

code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP82 Series

Interchanges for Pall Pressure filter  
HC8200 series

## 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 250 psid (210 bar)

### 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

### Interchange

#### Pall

HC8200F#N8H  
HC8200F#P8H  
HC8200F#S8H  
HC8200F#T8H  
HC8200F#Z8H  
HC8200F#N13H  
HC8200F#P13H  
HC8200F#S13H  
HC8200F#T13H  
HC8200F#Z13H  
HC8200F#N16H  
HC8200F#P16H  
HC8200F#S16H  
HC8200F#T16H  
HC8200F#Z16H

#### Hy-Pro

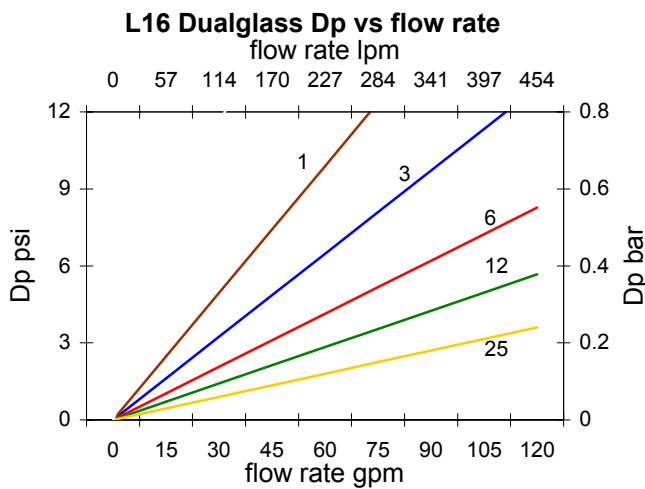
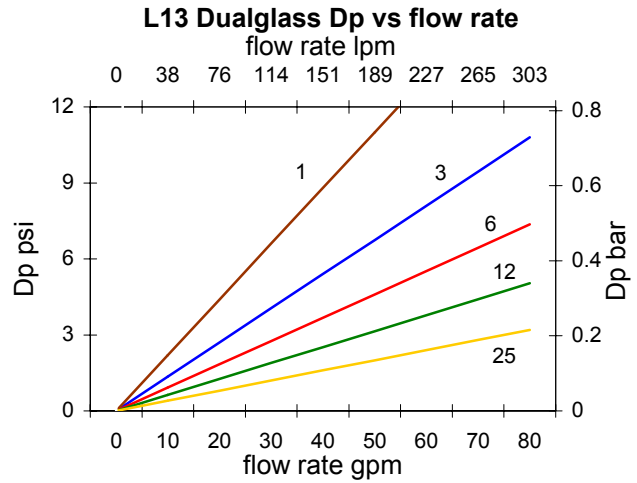
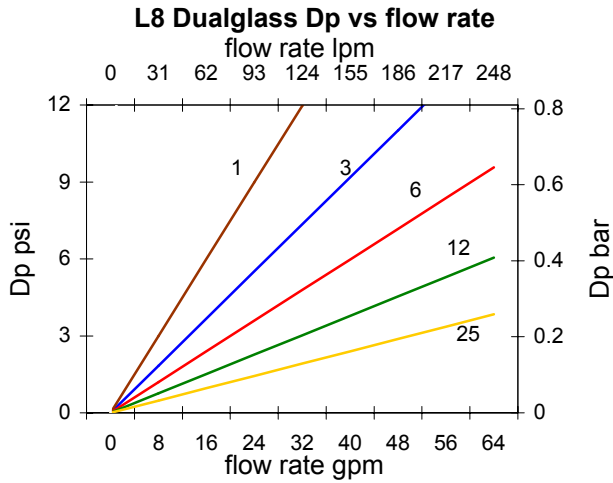
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HP82L8-3MB  
HP82L8-12MB  
HP82L8-25MB  
HP82L8-1MB  
HP82L13-6MB  
HP82L13-3MB  
HP82L13-12MB  
HP82L13-25MB  
HP82L13-1MB  
HP82L16-6MB  
HP82L16-3MB  
HP82L16-12MB  
HP82L16-25MB  
HP82L16-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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:

$$\text{DP element} = \text{DP curve} \times \text{Vis}/141 \times \text{SG}/0.86$$

table 1      table 2      table 3      table 4

# HP82L - - - -

table 1 code	length
8	single
13	double
16	triple

table 2 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
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

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

table 4 code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP83 Series

Interchanges for Pall Pressure filter  
HC8300 series

## 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 250 psid (210 bar)

### 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

### Interchange

#### Pall

HC8300F#N8H  
HC8300F#P8H  
HC8300F#S8H  
HC8300F#T8H  
HC8300F#Z8H  
HC8300F#N16H  
HC8300F#P16H  
HC8300F#S16H  
HC8300F#T16H  
HC8300F#Z16H  
HC8300F#N39H  
HC8300F#P39H  
HC8300F#S39H  
HC8300F#T39H  
HC8300F#Z39H

#### Hy-Pro

HP83L8-6MB  
HP83L8-3MB  
HP83L8-12MB  
HP83L8-25MB  
HP83L8-1MB  
HP83L16-6MB  
HP83L16-3MB  
HP83L16-12MB  
HP83L16-25MB  
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HP83L39-12MB  
HP83L39-25MB  
HP83L39-1MB

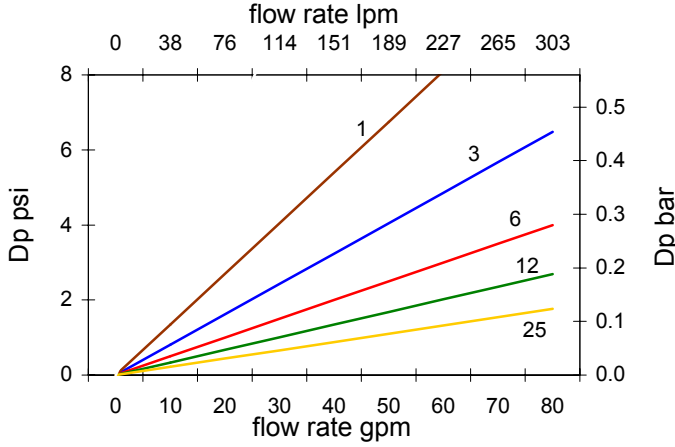
\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are available. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

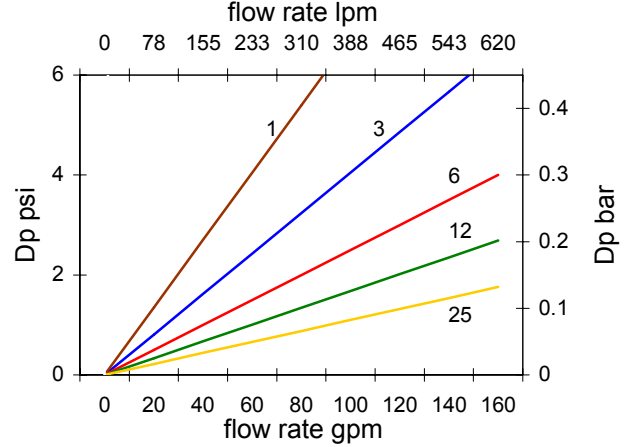
### Fluid Compatibility

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

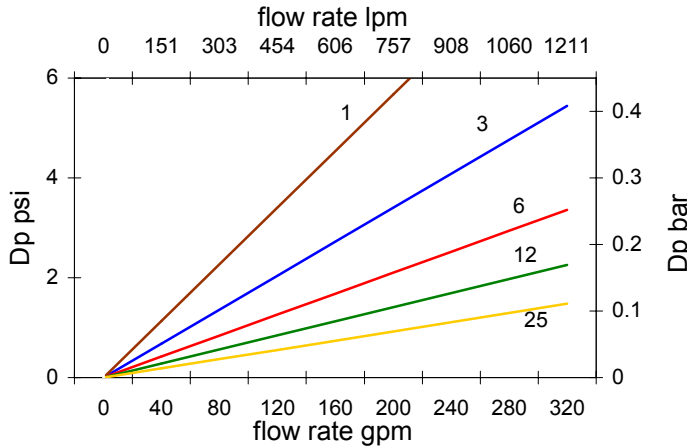
**L8 Dualglass Dp vs flow rate**



**L16 Dualglass Dp vs flow rate**



**L39 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1      table 2      table 3      table 4      table 5

# HP83L \_\_\_\_\_

table 1 code	length
8	single
16	double
39	triple

table 2 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 25u nominal wire mesh
40	40u nominal wire mesh
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

table 4 code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP8310 Series

Interchanges for Pall Pressure filter  
HC8310 series

## 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 250 psid (210 bar)

### 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

### Interchange Pall

HC8310F#N16H  
HC8310F#P16H  
HC8310F#S16H  
HC8310F#T16H  
HC8310F#Z16H

### Hy-Pro

HP8310L16-6MB  
HP8310L16-3MB  
HP8310L16-12MB  
HP8310L16-25MB  
HP8310L16-1MB

HC8310F#N39H  
HC8310F#P39H  
HC8310F#S39H  
HC8310F#T39H  
HC8310F#Z39H

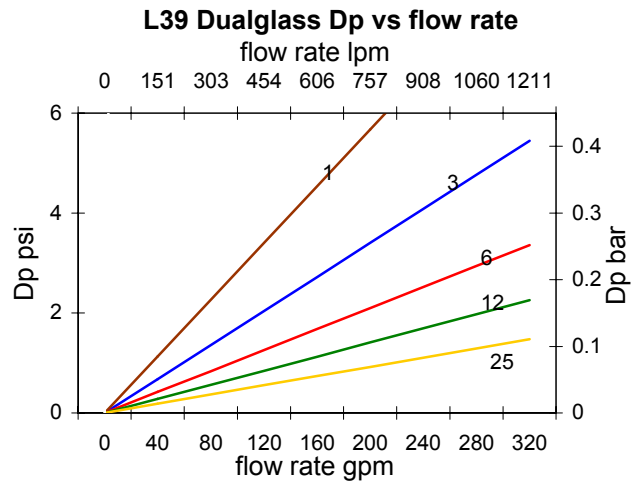
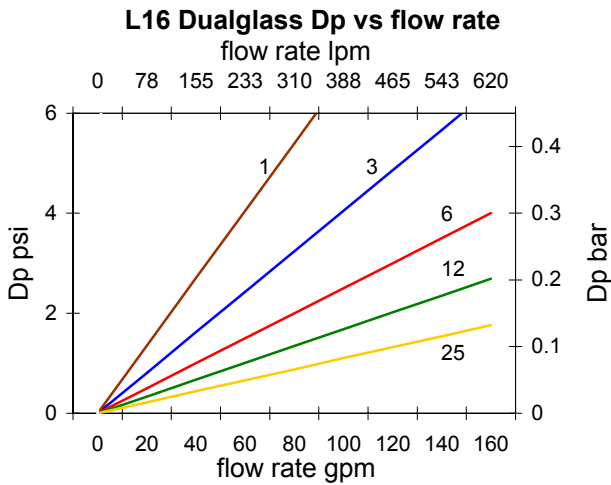
HP8310L39-6MB  
HP8310L39-3MB  
HP8310L39-12MB  
HP8310L39-25MB  
HP8310L39-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/150 \times \text{Actual SG}/0.86$$

table 1      table 2      table 3      table 4      table 5

# HP8310L \_\_\_\_\_ - \_\_\_\_\_

table 1 code	length
8	single
16	double
39	triple

table 2 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 25u nominal wire mesh
40	40u nominal wire mesh
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

table 4 code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP8314 Series

Interchanges \*Pall HC8314 coreless

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c(buna)  
 -20f to 250f, -29c to 120c(viton)  
 Max flow rate 300 gpm (1089 lpm)  
 Element collapse 150 psid (20 bar)

### Interchange

Pall	Hy-Pro
HC8314FKN13H	HP8314L13-6MB
HC8314FKN16H	HP8314L16-6MB
HC8314FKN26H	HP8314L26-6MB
HC8314FKN39H	HP8314L39-6MB
HC8314FKP13H	HP8314L13-3MB
HC8314FKP16H	HP8314L16-3MB
HC8314FKP26H	HP8314L26-3MB
HC8314FKP39H	HP8314L39-3MB
HC8314FKS13H	HP8314L13-12MB
HC8314FKS16H	HP8314L16-12MB
HC8314FKS26H	HP8314L26-12MB
HC8314FKS39H	HP8314L39-12MB
HC8314FKT13H	HP8314L13-25MB
HC8314FKT16H	HP8314L16-25MB
HC8314FKT26H	HP8314L26-25MB
HC8314FKT39H	HP8314L39-25MB
HC8314FKZ13H	HP8314L13-1MB
HC8314FKZ16H	HP8314L16-1MB
HC8314FKZ26H	HP8314L26-1MB
HC8314FKZ39H	HP8314L39-1MB

For viton seals where Pall p/n ends with Z

\*Pall is a registered trademark of the Pall Corporation

### Fluid Compatibility

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

### 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.

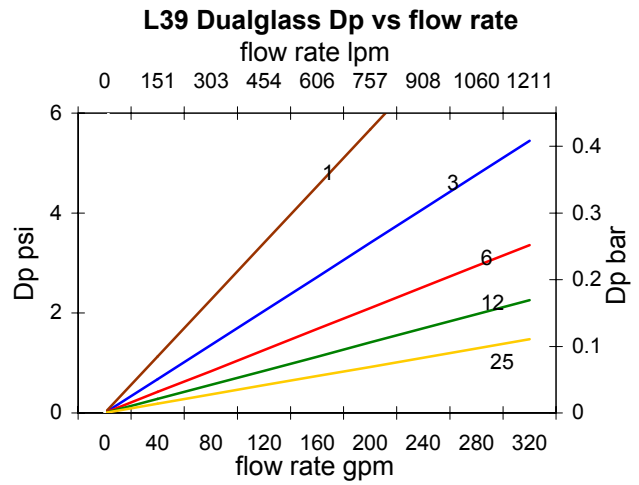
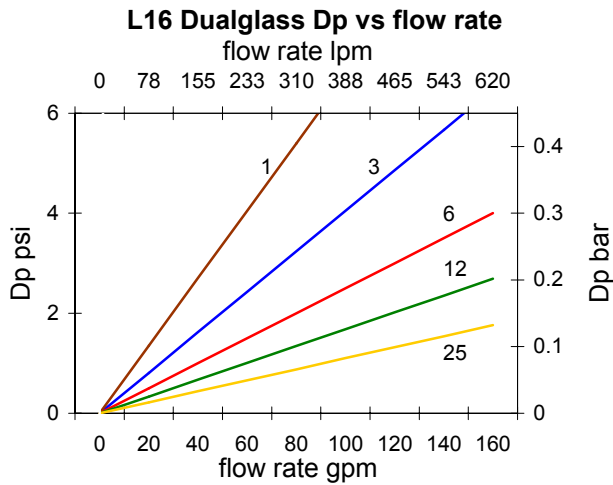
### Disposable

Easy to incinerate design includes synthetic endcaps.

### 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





### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/150 \times \text{Actual SG}/0.86$$

table 1      table 2      table 3      table 4

# HP8314L - - - -

code	length
13	single
16	double
26	24 inch
39	triple

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 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP84 Series

Interchanges for Pall Pressure filter  
HC8400 series

## 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 250 psid (210 bar)

### 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

### Interchange

#### Pall

HC8400F#N8H  
HC8400F#P8H  
HC8400F#S8H  
HC8400F#T8H  
HC8400F#Z8H  
HC8400F#N16H  
HC8400F#P16H  
HC8400F#S16H  
HC8400F#T16H  
HC8400F#Z16H  
HC8400F#N26H  
HC8400F#P26H  
HC8400F#S26H  
HC8400F#T26H  
HC8400F#Z26H  
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HC8400F#Z39H

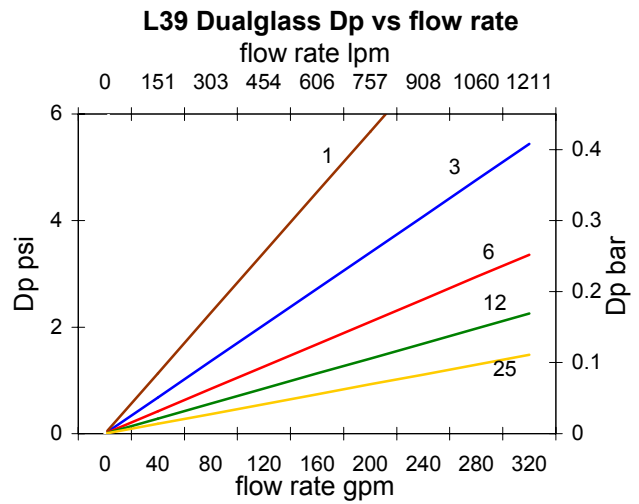
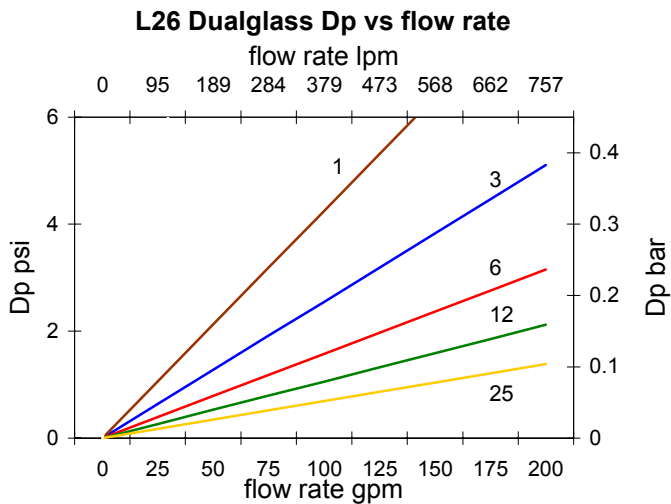
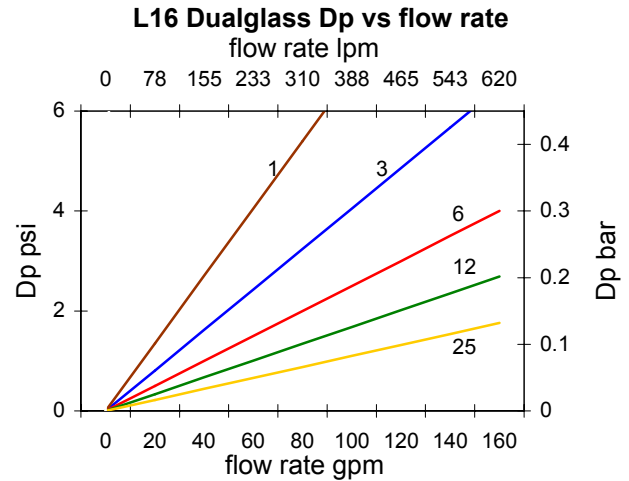
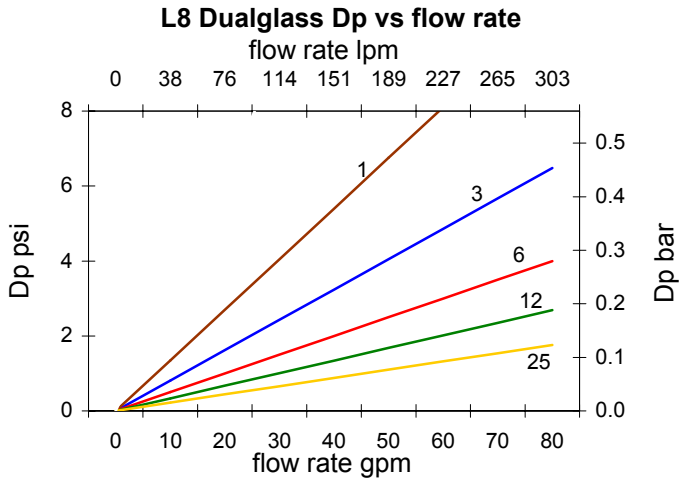
#### Hy-Pro

HP84L8-6MB  
HP84L8-3MB  
HP84L8-12MB  
HP84L8-25MB  
HP84L8-1MB  
HP84L16-6MB  
HP84L16-3MB  
HP84L16-12MB  
HP84L16-25MB  
HP84L16-1MB  
HP84L26-6MB  
HP84L26-3MB  
HP84L26-12MB  
HP84L26-25MB  
HP84L26-1MB  
HP84L39-6MB  
HP84L39-3MB  
HP84L39-12MB  
HP84L39-25MB  
HP84L39-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".  
Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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      table 4

# HP84L \_\_\_\_\_ - \_\_\_\_\_

table 1	code	length
	8	single
	16	double
	26	26 inch
	39	triple

table 2	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 25u nominal wire mesh
	40	40u nominal wire mesh
	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

table 4	code	seal
	B	Nitrile (buna)
	V	Fluorocarbon
	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





# HP85 Series

Interchanges for Pall Pressure filter  
HC8500 series

## 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 250 psid (210 bar)

### 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

### Fluid Compatibility

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

### Interchange

#### Pall

HC8500F#N8H  
HC8500F#P8H  
HC8500F#S8H  
HC8500F#T8H  
HC8500F#Z8H

HC8500F#N13H  
HC8500F#P13H  
HC8500F#S13H  
HC8500F#T13H  
HC8500F#Z13H

HC8500F#N26H  
HC8500F#P26H  
HC8500F#S26H  
HC8500F#T26H  
HC8500F#Z26H

#### Hy-Pro

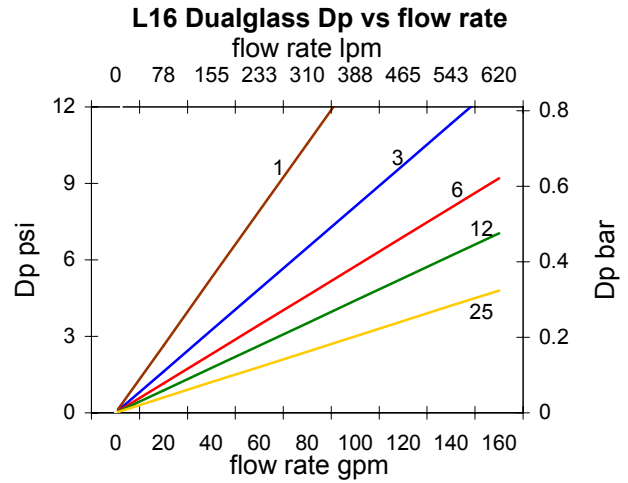
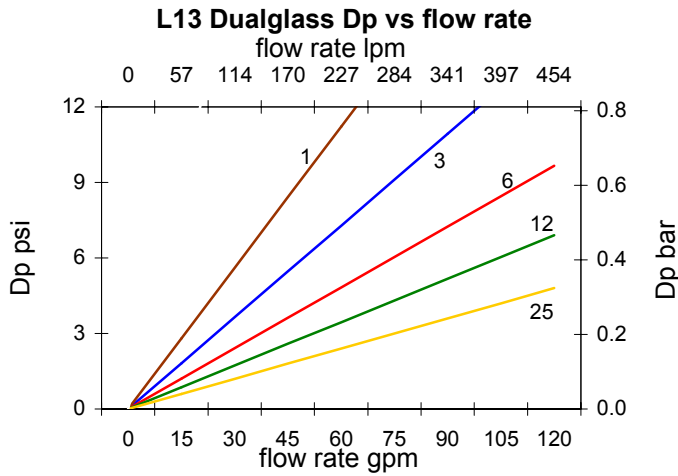
HP85L8-6MB  
HP85L8-3MB  
HP85L8-12MB  
HP85L8-25MB  
HP85L8-1MB

HP85L13-6MB  
HP85L13-3MB  
HP85L13-12MB  
HP85L13-25MB  
HP85L13-1MB

HP85L26-6MB  
HP85L26-3MB  
HP85L26-12MB  
HP85L26-25MB  
HP85L26-1MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are available. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1    table 2    table 3    table 4

# HP85L - - - -

table 1	
code	length
8	single
13	double
26	triple

table 2	
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
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP88Series

Interchanges for Pall Pressure filter  
HC8800 series

## 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 290 psid (210 bar)

### Interchange

#### Pall

HC8800F#N8H  
HC8800F#P8H  
HC8800F#S8H  
HC8800F#T8H  
HC8800F#Z8H

#### Hy-Pro

HP88L8-6MB  
HP88L8-3MB  
HP88L8-12MB  
HP88L8-25MB  
HP88L8-1MB

HC8800F#N13H  
HC8800F#P13H  
HC8800F#S13H  
HC8800F#T13H  
HC8800F#Z13H

HP88L13-6MB  
HP88L13-3MB  
HP88L13-12MB  
HP88L13-25MB  
HP88L13-1MB

HC8800F#N16H  
HC8800F#P16H  
HC8800F#S16H  
HC8800F#T16H  
HC8800F#Z16H

HP88L16-6MB  
HP88L16-3MB  
HP88L16-12MB  
HP88L16-25MB  
HP88L16-1MB

### 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

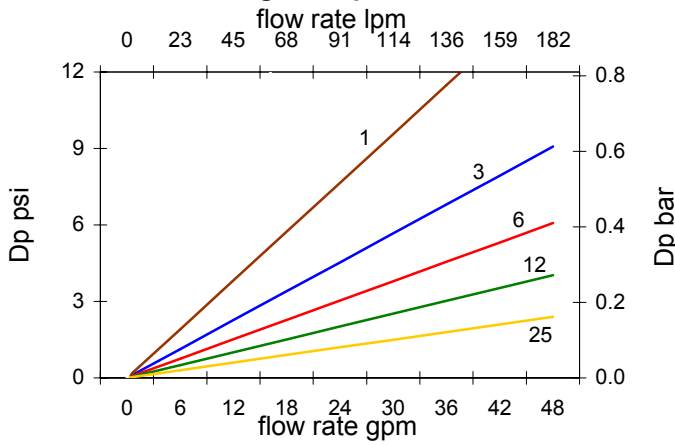
ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

### Fluid Compatibility

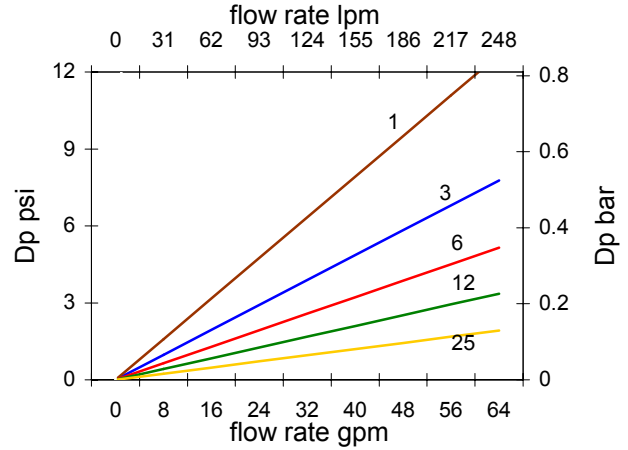
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".  
Media types available include Dualglass, Wire mesh, Water removal and Dynafuzz media types are available. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

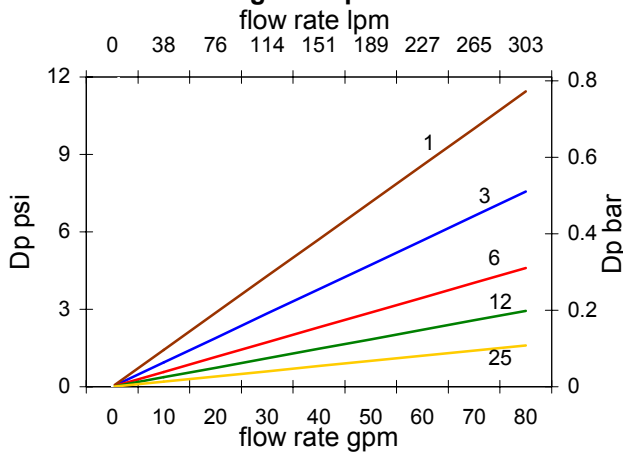
**L8 Dualglass Dp vs flow rate**



**L13 Dualglass Dp vs flow rate**



**L16 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

**DP element = DP curve x Viscosity/150 x SG/0.86**

table 1      table 2      table 3      table 4

**HP88L** \_\_\_\_\_

table 1 code	length
8	single
13	double
16	triple

table 2 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
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

table 4 code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP894 Series

Interchanges Pall\* HC8904, HC8914

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature:	-45f to 225f, -43c to 107c(buna) -20f to 250f, -29c to 120c(viton)
Max flow rate	150 gpm (570 lpm)
Element collapse	150 psid (20 bar)

### Interchange

Pall	Hy-Pro
HC8904FKN13H	HP894L13-6MB
HC8904FKN16H	HP894L16-6MB
HC8904FKN26H	HP894L26-6MB
HC8904FKN39H	HP894L39-6MB
HC8904FKN8H	HP894L8-6MB
HC8904FKP13H	HP894L13-3MB
HC8904FKP16H	HP894L16-3MB
HC8904FKP26H	HP894L26-3MB
HC8904FKP39H	HP894L39-3MB
HC8904FKP8H	HP894L8-3MB
HC8904FKS13H	HP894L13-12MB
HC8904FKS16H	HP894L16-12MB
HC8904FKS26H	HP894L26-12MB
HC8904FKS39H	HP894L39-12MB
HC8904FKS8H	HP894L8-12MB
HC8904FKT13H	HP894L13-25MB
HC8904FKT16H	HP894L16-25MB
HC8904FKT26H	HP894L26-25MB
HC8904FKT39H	HP894L39-25MB
HC8904FKT8H	HP894L8-1MB
HC8904FKZ13H	HP894L13-1MB
HC8904FKZ16H	HP894L16-1MB
HC8904FKZ26H	HP894L26-1MB
HC8904FKZ39H	HP894L39-1MB
HC8904FKZ8H	HP894L8-1MB

For viton seals (where Pall p/n ends with Z not H) replace B in Hy-Pro p/n with V.

### 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.

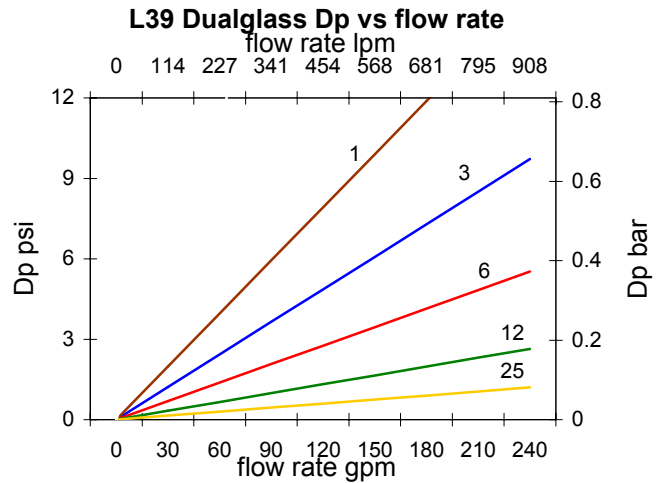
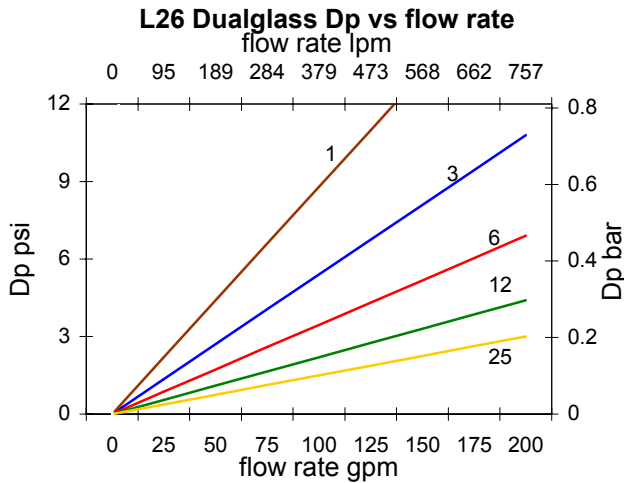
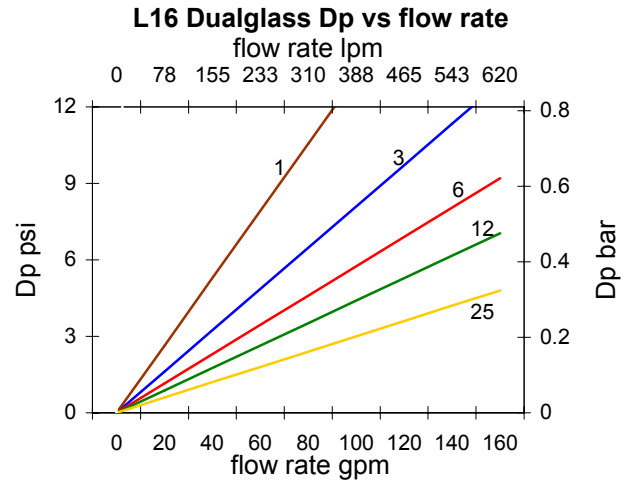
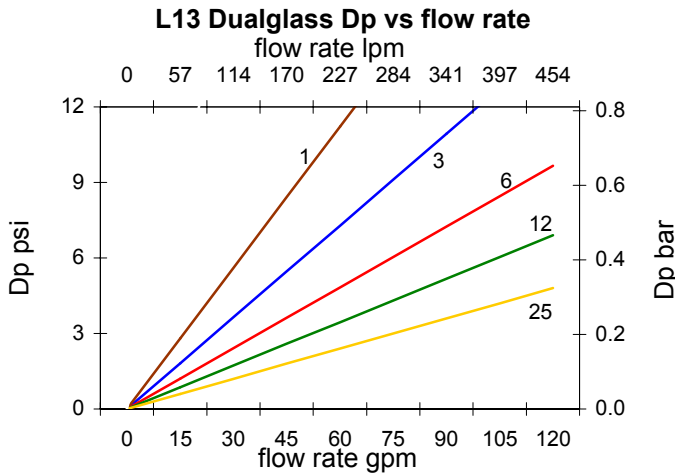
### Disposable

Easy to incinerate design includes synthetic caps.

### 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





### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1    table 2    table 3    table 4

# HP894L \_\_\_\_\_ - \_\_\_\_\_

code	length
8	single
13	double
14	14 inch
16	triple
26	26 inch
39	39 inch

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 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

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

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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





# HP89/94 Series

Interchanges for Pall Pressure filter  
HC8900 and HC9400 series

## 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 290 psid (210 bar)

**Interchange numbers by series only.  
Consult interchange guide for 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

### Fluid Compatibility

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

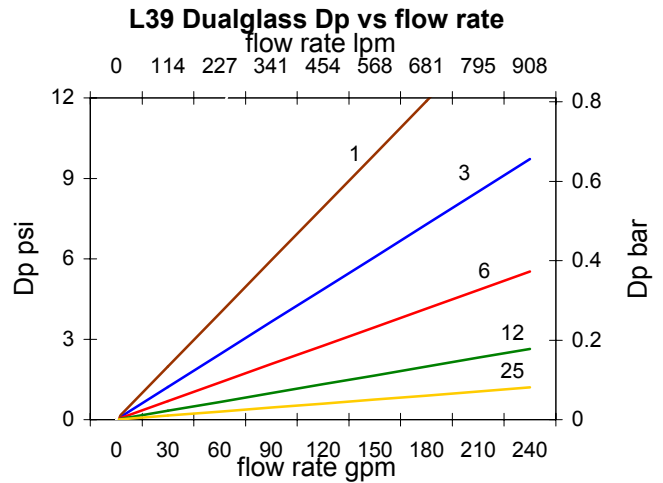
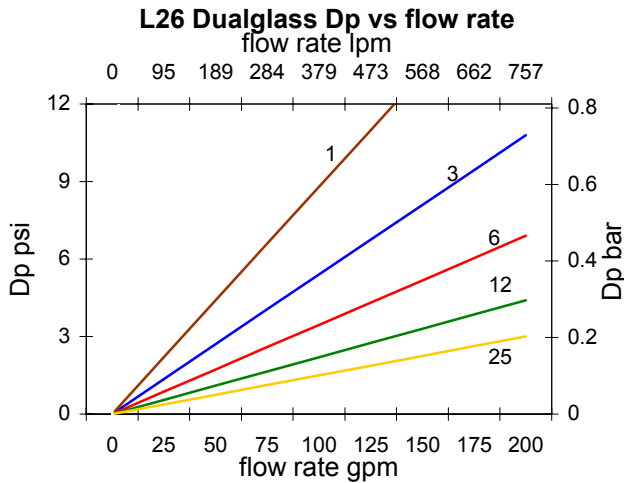
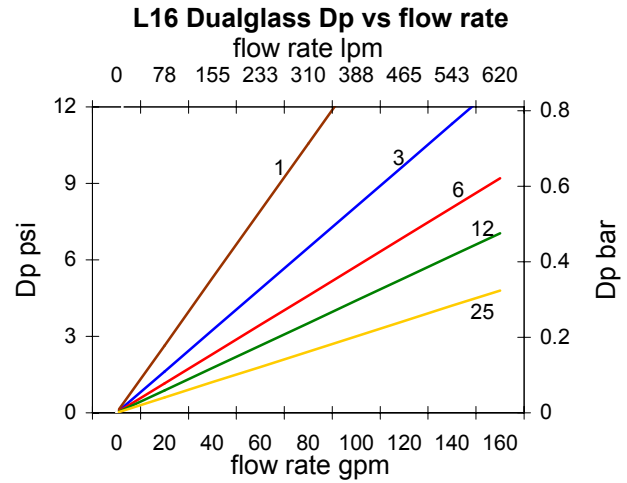
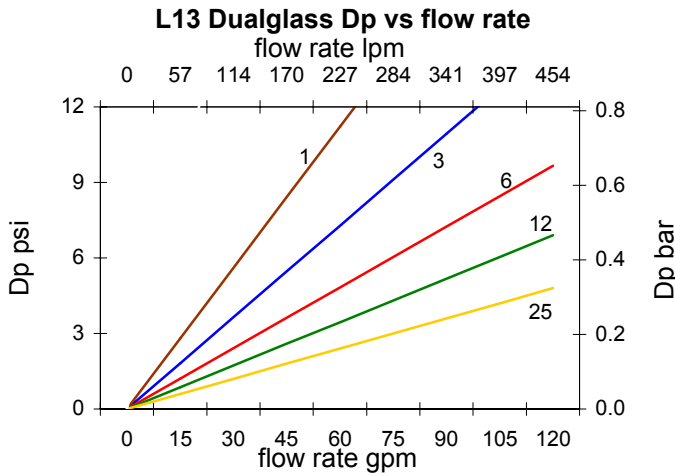
### Pall

### Hy-Pro

HC8900F##8H	HP88L8-#MB
HC8900F##13H	HP89L13-#MB
HC8900F##16H	HP89L16-#MB
HC8900F##26H	HP89L26-#MB
HC8900F##35H	HP89L35-#MB
HC8900F##39H	HP89L39-#MB
HC9400F##13H	HP94L13-#MB
HC9400F##26H	HP94L26-#MB
HC9400F##39H	HP94L39-#MB

\*For Fluorocarbon seals where Pall number ends with "Z" change "B" in Hy-Pro number to "V".

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



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1      table 2      table 3      table 4      table 5

**HP**      **L**      -                    

table 1 code	style
89	1 open end
94	2 open end

table 2 code	length
8*	8 inch
13	13 inch
16*	16 inch
26	26 inch
35*	35 inch
39	39 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
74	74u nominal wire mesh
149	149u nominal wire mesh

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

table 5 code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HP8H/8N Series

MP Filtri HP0651, HP0652, HP0653

## 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 HP8N = 450 psid (30 bar)  
HP8H = 3000 psid (210 bar)

### 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

**Interchange by series: (For complete part numbers and more cross reference consult the interchange guide)**

#### MP Filtri

#### Hy-Pro

HP0651\_ \_ \_ \_

HP8\_L4- \_ \_ \_ series

HP0652\_ \_ \_ \_

HP8\_L6- \_ \_ \_ series

HP0653\_ \_ \_ \_

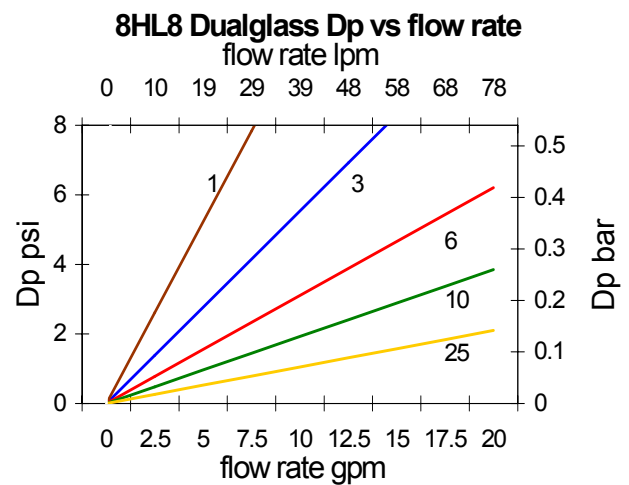
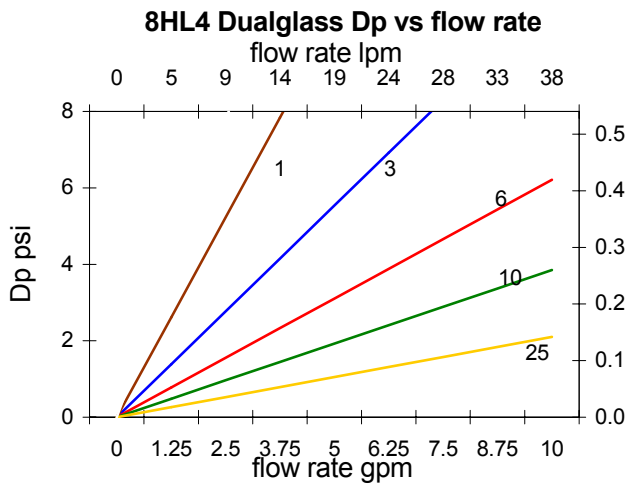
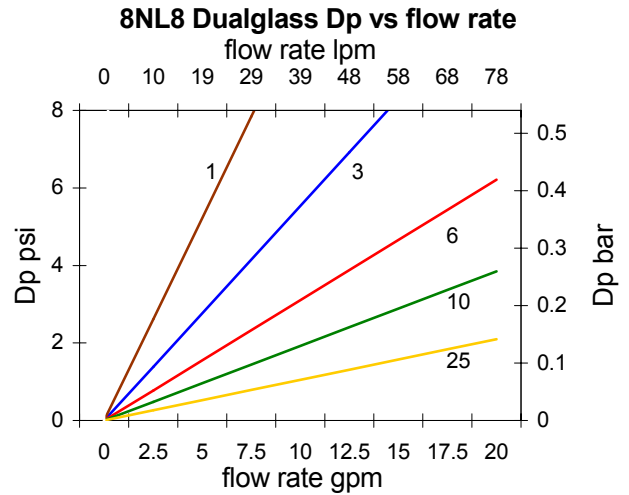
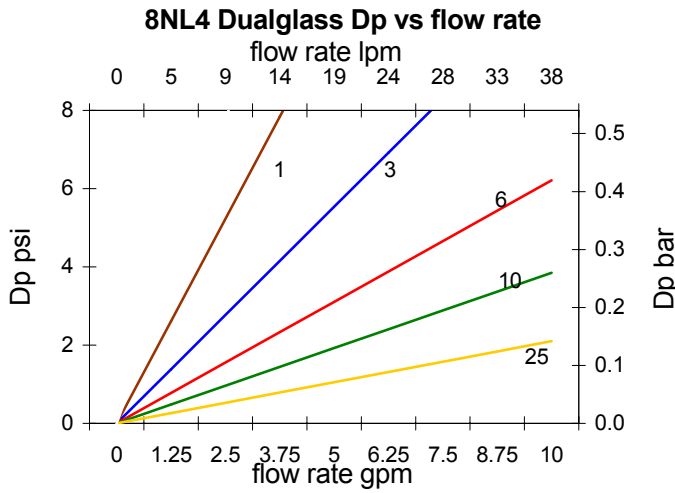
HP8\_L8- \_ \_ \_ series

\*For Viton seals (where A in MP p/n is V) replace the B in Hy-Pro p/n with a V.

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 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Actual Viscosity}/150 \times \text{Actual SG}/0.9$$

table 1

table 2

table 3

table 4

table 5

# HP8 \_ L \_ - \_ \_ \_

code	collapse
N	450 psid
H	3000 psid

code	length
4	single
6	double
8	triple

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)
10W	10u nominal wire mesh
25	B22[c] = 1000 (B25 = 200) or nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

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 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

code	seal
B	Nitrile
V	Fluoro
E	EPR





# HP900 / 901 / 904

Interchanges \*Pall HC9100, HC9101, HC9104 element series.

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
 -20f to 250f, -29c to 120c (viton)  
 Max flow rate 70 gpm (110 lpm)  
 Element collapse HP900 = 290 psid (20 bar)  
 HP901 = 3000 psid (214 bar)  
 HP904 = 150 psid (10 bar)

### 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

### Fluid Compatibility

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

### Interchange

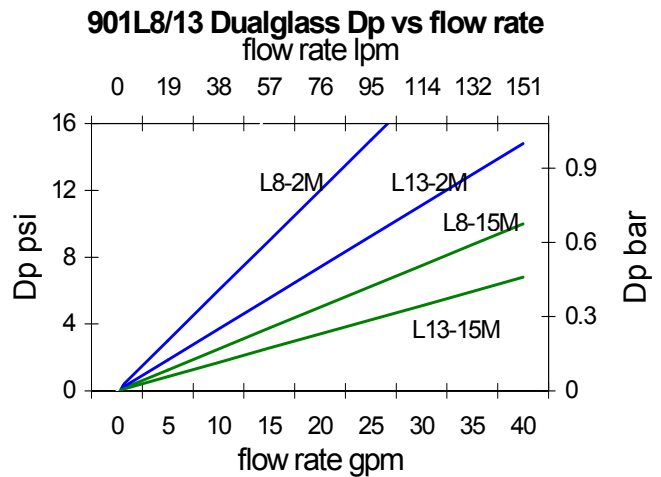
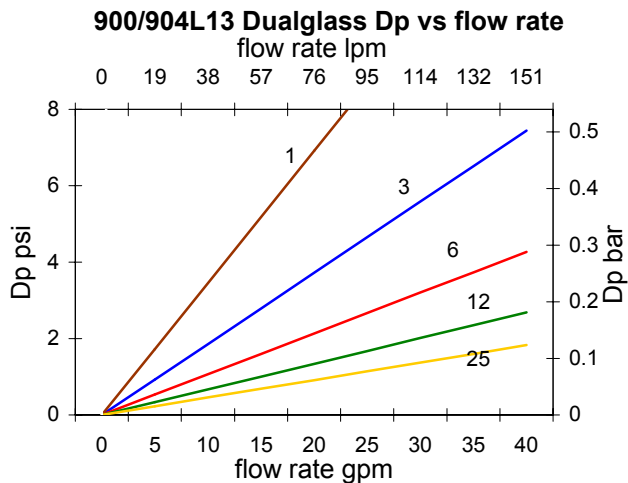
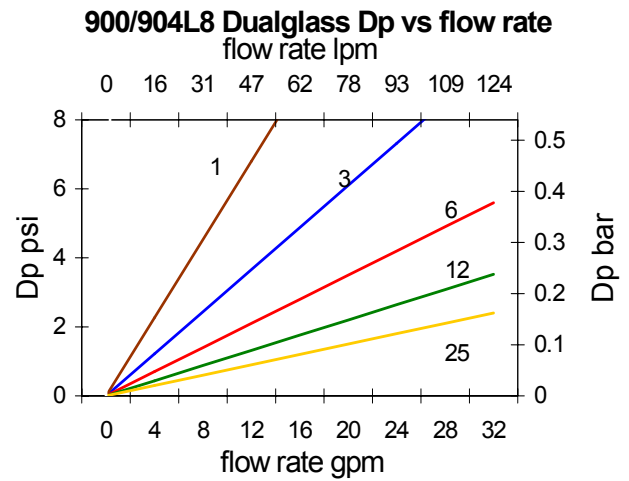
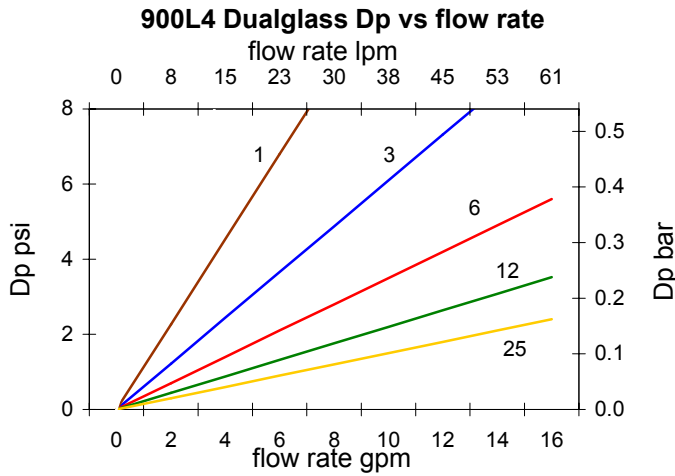
Pall	Hy-Pro
HC9100FKN13H	HP900L13-6MB
HC9100FKN4H	HP900L4-6MB
HC9100FKN8H	HP900L8-6MB
HC9100FKP13H	HP900L13-3MB
HC9100FKP4H	HP900L4-3MB
HC9100FKP8H	HP900L8-3MB
HC9100FKS13H	HP900L13-12MB
HC9100FKS4H	HP900L4-12MB
HC9100FKS8H	HP900L8-12MB
HC9100FKT13H	HP900L13-25MB
HC9100FKT4H	HP900L4-25MB
HC9100FKT8H	HP900L8-25MB
HC9100FKZ13H	HP900L13-1MB
HC9100FKZ4H	HP900L4-1MB
HC9100FKZ8H	HP900L8-1MB

\*for Pall HC9104 series replace HP900 with HP904 for coreless element option.

HC9101FDP13H	HP901L13-2MB
HC9101FDP4H	HP901L4-2MB
HC9101FDP8H	HP901L8-2MB
HC9101FDT13H	HP901L13-15MB
HC9101FDT4H	HP901L4-15MB
HC9101FDT8H	HP901L8-15MB

For viton seals where Pall p/n ends with Z replace B in Hy-Pro p/n with V.

\*Pall is a registered trademark of the Pall Corporation



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use:

$$DP \text{ element} = DP \text{ curve} \times \text{Actual Viscosity}/150 \times \text{Actual SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HP90 \_ \_ L \_ \_ - \_ \_ \_ \_ \_

code	collapse
0	450 psid
1	3000 psid
4	150 psid coreless

code	length
4	single
8	double
13	triple

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

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

code	seal
B	Nitrile
V	Fluoro
E	EPR





# HP944 Series

Interchanges Pall\* HC9404 coreless

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c(buna)  
 -20f to 250f, -29c to 120c(viton)  
 Max flow rate 250 gpm (910 lpm)  
 Element collapse 150 psid (20 bar)

### Interchange

Pall	Hy-Pro
HC9404FKN13H	HP944L13-6MB
HC9404FKN26H	HP944L26-6MB
HC9404FKN39H	HP944L39-6MB
HC9404FKP13H	HP944L13-3MB
HC9404FKP26H	HP944L26-3MB
HC9404FKP39H	HP944L39-3MB
HC9404FKS13H	HP944L13-12MB
HC9404FKS26H	HP944L26-12MB
HC9404FKS39H	HP944L39-12MB
HC9404FKT13H	HP944L13-25MB
HC9404FKT26H	HP944L26-25MB
HC9404FKT39H	HP944L39-25MB
HC9404FKZ13H	HP944L13-1MB
HC9404FKZ26H	HP944L26-1MB
HC9404FKZ39H	HP944L39-1MB

For viton seals (where Pall p/n ends with Z not H) replace B in Hy-Pro p/n with V.

\*Pall is a registered trademark of the Pall Corporation

### 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.

### Disposable

Easy to incinerate design includes synthetic endcaps.

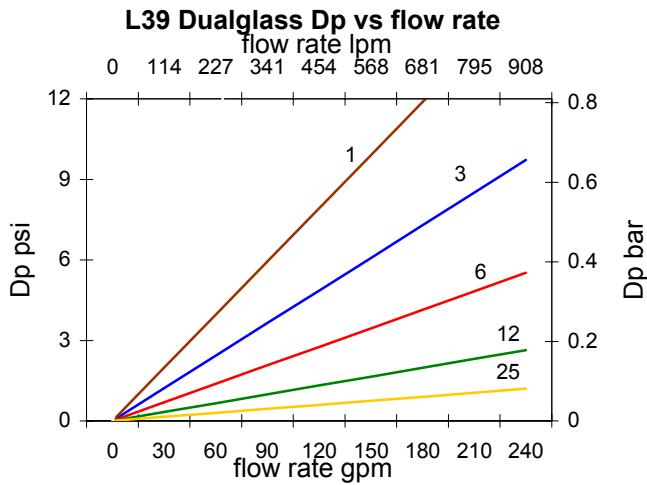
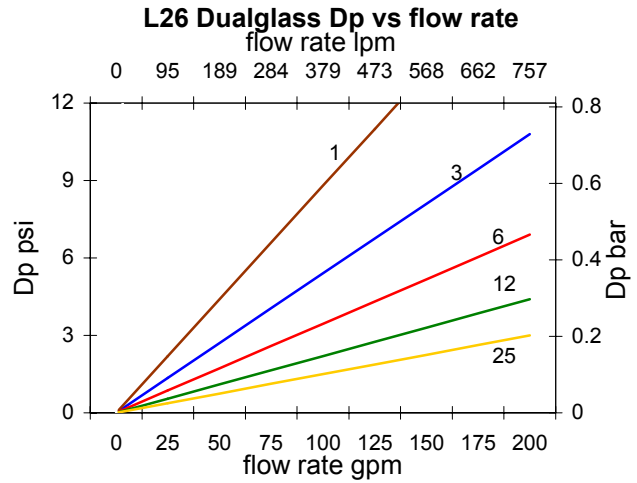
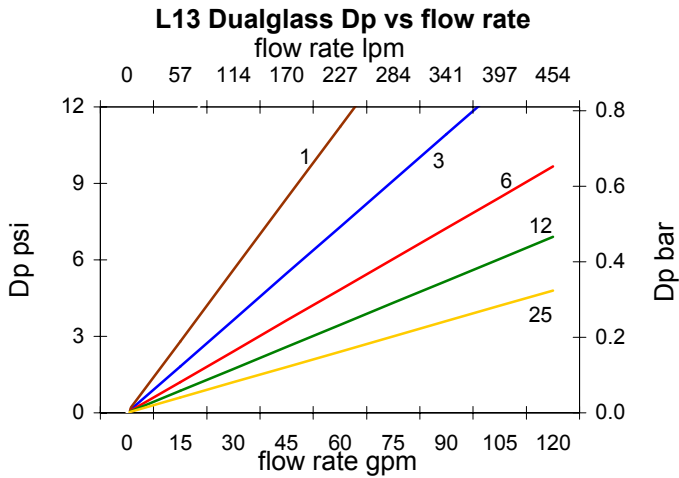
### Fluid Compatibility

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

### 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





### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

# HP944L \_\_\_\_\_ - \_\_\_\_\_

table 1	
code	length
13	single
26	double
39	triple

table 2	
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
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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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





# HP95RN Series

Interchanges Hydac 0950/1300/2600

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature:	-45f to 225f, -43c to 107c (buna) -20f to 250f, -29c to 120c (viton)
Max flow rate	500 gpm (1875 lpm)
Element collapse	250 psid (17 bar)

### Interchange

Hydac/Hycon	Hy-Pro
0950R003BN3HC	HP95RNL14-3MB
0950R003BNHC	HP95RNL14-3MB
0950R005BN3HC	HP95RNL14-6MB
0950R005BNHC	HP95RNL14-6MB
0950R010BN3HC	HP95RNL14-12MB
0950R010BNHC	HP95RNL14-12MB
0950R020BN3HC	HP95RNL14-25MB
0950R020BNHC	HP95RNL14-25MB
1300R003BN3HC	HP95RNL18-3MB
1300R003BNHC	HP95RNL18-3MB
1300R005BN3HC	HP95RNL18-6MB
1300R005BNHC	HP95RNL18-6MB
1300R010BN3HC	HP95RNL18-12MB
1300R010BNHC	HP95RNL18-12MB
1300R020BN3HC	HP95RNL18-25MB
1300R020BNHC	HP95RNL18-25MB
2600R003BN3HC	HP95RNL36-3MB
2600R003BNHC	HP95RNL36-3MB
2600R005BN3HC	HP95RNL36-6MB
2600R005BNHC	HP95RNL36-6MB
2600R010BN3HC	HP95RNL36-12MB
2600R010BNHC	HP95RNL36-12MB
2600R020BN3HC	HP95RNL36-25MB
2600R020BNHC	HP95RNL36-25MB

\*for viton (Hydac ends /-V) seals replace "B" in HP no. with "V".

\*other media types than "BNHC" or "BN3HC" available are "W", "BN", "P", "P/HC" call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

### 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.

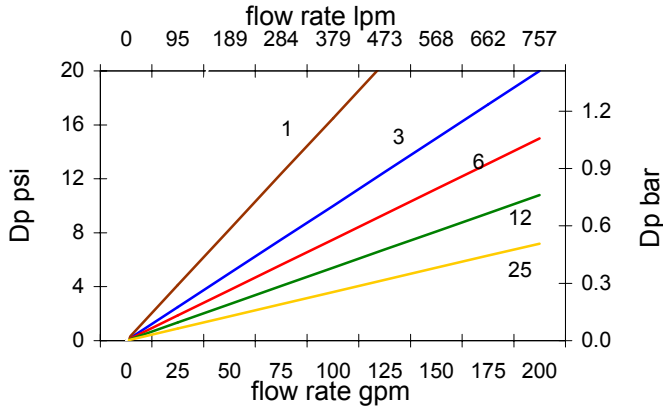
### Bypass Valve

Zero leak, soft seat design eliminates inherently Leaky plastic to plastic sealing surfaces

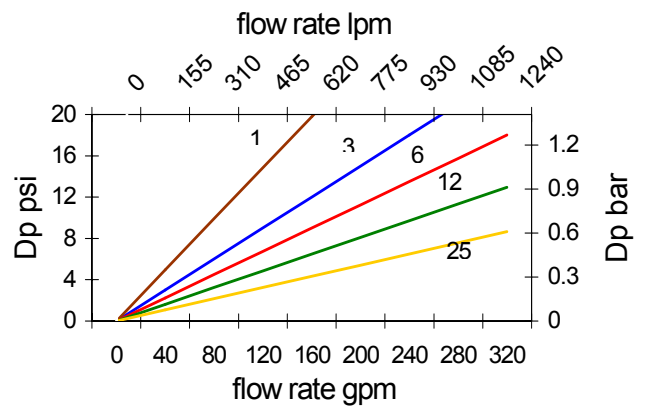
### Tested to ISO quality standards

ISO2941	Collapse and burst resistance
ISO2942	Fabrication and Integrity test
ISO2943	Material compatibility with fluids
ISO3724	Flow fatigue characteristics
ISO3968	Pressure drop vs. flow rate
ISO16889	Multi-pass performance testing

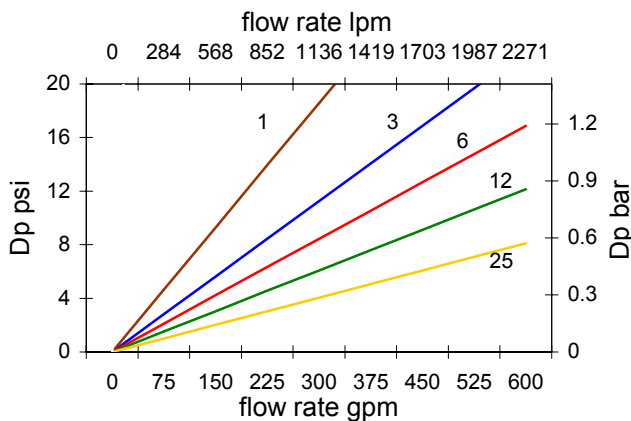
### L14 G6 Dualglass Dp vs flow rate



### L18 G6 Dualglass Dp vs flow rate



### L36 G6 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:

$$\text{New DP element} = \text{DP curve} \times \text{Actual Viscosity}/141 \times \text{Actual SG}/0.86$$

### Fluid Compatibility

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

table 1      table 2      table 3      table 4      table 5      table 6      table 7

# HP95RNL

code	length
14	single
18	double
36	triple

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

code	Element OD
omit	Standard
S	reduced capacity

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
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal 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 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

code	bypass
omit	With 43psid bypass valve
C	blocked bypass

code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

code	options
87	87 psid bypass
PC	HWBF coating
D	Chip cup



**HP964 Element**

# HP964 Series

Interchanges \*Pall HC9604 coreless

## Hy-Pro G6 Dualglass High Performance Filter Elements

**Performance**

Temperature: -45f to 225f, -43c to 107c(buna)  
 -20f to 250f, -29c to 120c(viton)  
 Max flow rate 110 gpm (400 lpm)  
 Element collapse 150 psid (20 bar)

**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.

**Disposable**

Easy to incinerate design includes synthetic

**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

**Fluid Compatibility**

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

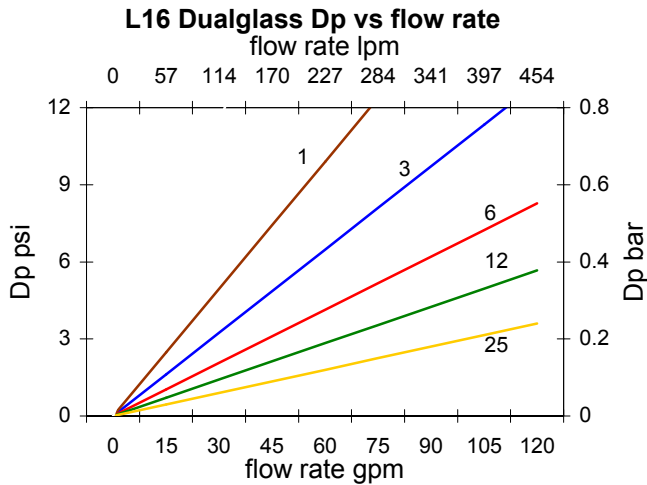
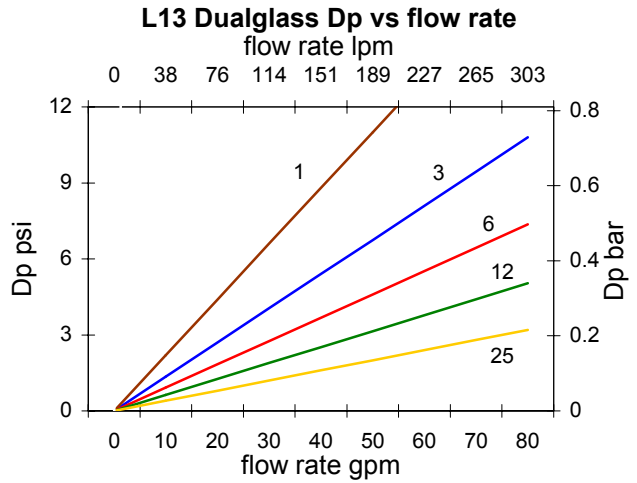
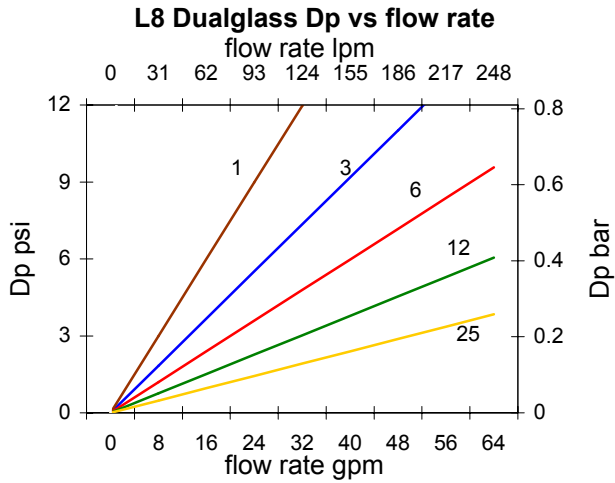
**Interchange**

Pall	Hy-Pro
HC9604FKN13H	HP964L13-6MB
HC9604FKN16H	HP964L16-6MB
HC9604FKN8H	HP964L8-6MB
HC9604FKP13H	HP964L13-3MB
HP9604FKP16H	HP964L16-3MB
HC9604FKP8H	HP964L8-3MB
HC9604FKS13H	HP964L13-12MB
HC9604FKS16H	HP964L16-12MB
HC9604FKS8H	HP964L8-12MB
HC9604FKT13H	HP964L13-25MB
HC9604FKT16H	HP964L16-25MB
HC9604FKT8H	HP964L8-25MB
HC9604FKZ13H	HP964L13-1MB
HC9604FKZ16H	HP964L16-1MB
HC9604FKZ8H	HP964L8-1MB

For viton seals where Pall p/n ends with Z replace B in Hy-Pro p/n with V.

\*Pall is a registered trademark of the Pall Corporation





## Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1      table 2      table 3      table 4

# HP964L \_\_\_\_\_ - \_\_\_\_\_

code	length
8	single
13	double
16	triple

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 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

code	Media
A	G6 Dualglass w/water removal
M	G6 Dualglass
W	wire mesh

code	seal
B	Nitrile (buna)
V	Fluorocarbon
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





# HPA/C series

Interchanges element for Schroeder A, ASX, AZX, C, CSX, CZX 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	HPA/C = 250 psid (17 bar) HPA/CSX = 3000 psid (210 bar) HPA/CZX = 3000 psid (210 bar)

### 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

### Fluid Compatibility

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

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

Schroeder	Hy-Pro
A#	HPAL5-#MB
AS#	HPAL5-#MB
AZ#	HPAL5-#MB
AA#	HPAL10-#MB
AAS#	HPAL10-#MB
AAZ#	HPAL10-#MB
AASX#	HPASXL10-#MB
AAZX#	HPASXL10-#MB
C#	HPCL5-#MB
CS#	HPCL5-#MB
CZ#	HPCL5-#MB
CC#	HPCL10-#MB
CCS#	HPCL10-#MB
CCZ#	HPCL10-#MB
CCSX#	HPCSXL10-#MB
CCZX#	HPCSXL10-#MB

Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

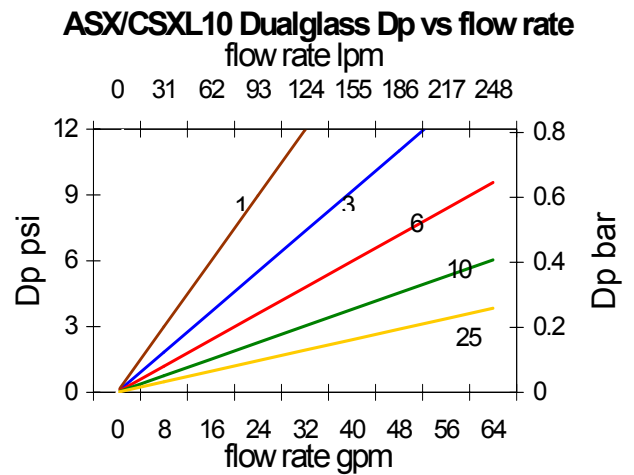
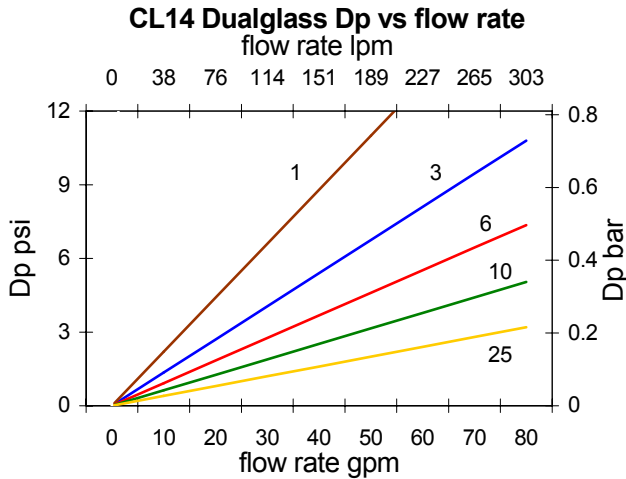
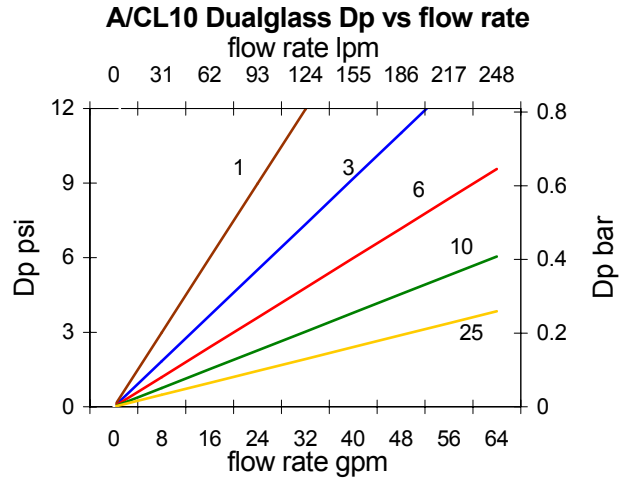
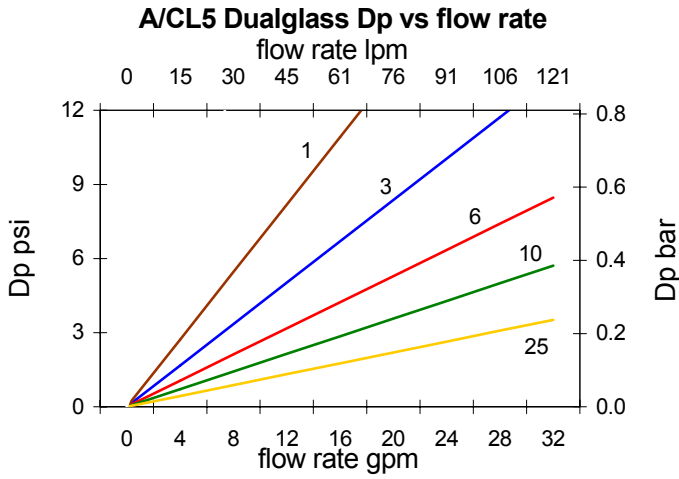


table 1    table 2    table 3    table 4    table 5    table 6

# HP \_ \_ \_ L \_ \_ - \_ \_ \_ \_ \_

table 1	endcap
code	config
A	double
C	single

table 3	length
code	length
5	single
10	double
14*	triple

\*C series only

table 2	collapse
code	collapse
omit	150 psid
SX	3000 psid
ZX	3000 psid

table 4	filtration rating
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)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 5	media type
code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 4	seal material
code	seal material
B	Nitrile grommet
E	EPR grommet
ORB	Nitrile o-ring
V	Fluorocarbon o-ring

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





# Hy-Pro Dynafuzz

Filter elements for power generation and other fire resistant applications

High Performance protection against corrosive fluids & high temperatures. Dynafuzz upgrades from glass media

## Performance

Temperature: -20f to 250f, -29c to 120c (viton)  
Element collapse up to 3000 psid (210 bar)

## Media

Sintered stainless steel fiber media is impervious to media migration commonly seen with glass fiber media exposed to some synthetic fluids for extended time intervals. Such fluids include phosphate ester based fluids, polyol esters, and other fire resistant fluids.

Non-compressible media yields long on-stream life in high differential pressure applications.

Not affected by water & gelatinous contamination.

Absolute filtration ratings from B3=200, B5[c]=1000, and B5[c]D=500 (DFE efficiency rating)

## Dynamic Filter Efficiency Testing

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.

## Applications

Hydraulic applications where fire resistant fluids are utilized. Including jack-up system for turbine start up, governor/control circuit for turbine speed. Primary metals applications

**Dynafuzz Interchange elements are upgrades from glass media available for the following manufacturers:**

**General Electric  
Westinghouse  
ABB  
Pall  
Parker  
Hilco  
Kaydon**

## 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



## Typical Elements Upgraded to Dynafuzz

### Pall

HC9401FDP13ZYGE  
 HC9401FDT13ZYGE  
 HC9601FDP11ZYGE  
 HC9601FDT11ZYGE  
 HC9601FDP21ZYGE  
 HC9601FDT21ZYGE  
 HC9021FDP4Z  
 HC9021FDT4Z  
 HC9021FDP8Z  
 HC9021FDT8Z

### Hy-Pro

HP41L13-3SFV  
 HP41L13-10SFV  
 HP61L11-3SFV  
 HP61L11-10SFV  
 HP61L21-3SFV  
 HP61L21-10SFV  
 HP21L4-3SFV  
 HP21L4-10SFV  
 HP21L8-3SFV  
 HP21L8-10SFV

### General Electric

234A6578P0002  
 234A6579P0002  
 254A7229P0005  
 254A7729P0008  
 254A7220P0008  
 258A4860P002  
 258A4860P004  
 316A2356P010

### Hy-Pro

HPQ210128L13-3SFV  
 HPQ210129L13-3SFV  
 HPQ210130L13-3SFV  
 HPQ210131L13-3SFV  
 HPQ210132L13-3SFV  
 HPQ210133L11-3SFV  
 HPQ210134L21-3SFV

## Series Availability

The Dynafuzz Upgrade is available for all Hy-Pro element series with the exception of spin-ons. See our element literature for the order information or contact customer service (317.849.3535)

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



# Hy-Dry Breathers

## Disposable Air Purifying Breathers



Fluid contamination is the root cause of most hydraulic system failures. Controlling contamination in the air a system breathes is critical. The synergy of Hy-Pro fluid filter elements and Hy-Dry desiccant breathers yields fluid clarification and a healthy hydraulic system.

### PRODUCT SPECIFICATIONS

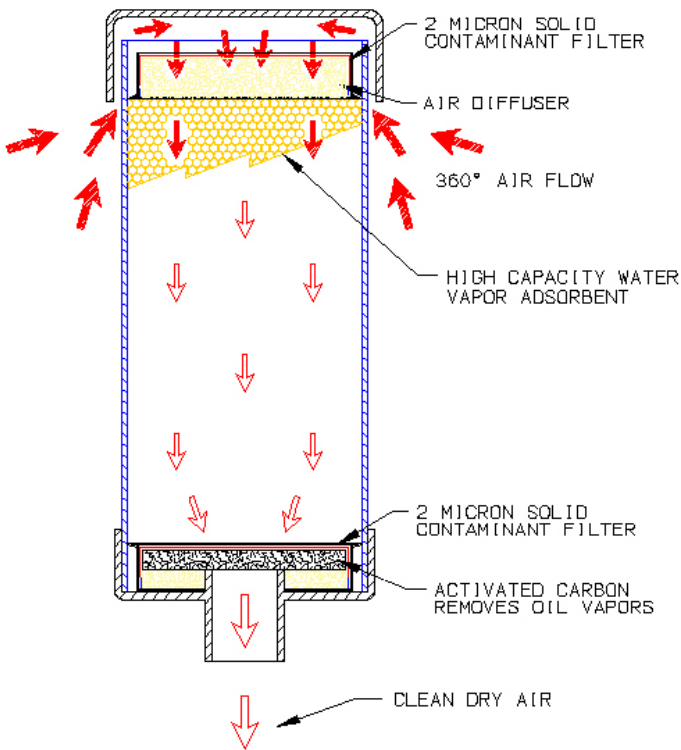
Air flow rate	35 CFM (990 l/min) equivalent to 260 gpm of fluid volume change
Solid contaminant filtration efficiency	2 micron, 100% efficiency (35 CFM)
Chemical resistance	Impervious to alkalis, mineral oils, non-oxidizing acids, salt water, hydrocarbons, and synthetic oils.
HPB-100	0.2 lb / 0.1 liter water capacity
HPB-101	0.4 lb / 0.2 liter water capacity
HPB-102	0.9 lb / 0.5 liter water capacity
HPB-302	0.9 lb / 0.5 liter water capacity
HPBR-102	0.9 lb / 0.5 liter water capacity
Operating temp.	-20f (-28c) to 200f (93c)

### FEATURES, BENEFITS, ADVANTAGES

Retro-fit existing reservoirs	With adaptors a Hy-Dry breather can be installed on virtually any existing reservoir. (Versatility)
Water adsorption	Eliminate water contamination from reservoir ingress Minimize rust and acid corrosion. Reduce component wear. Reduce maintenance costs. Prolong fluid life. Reduce oil oxidation. Enhance lubricity of fluids.
Chemically inert	Gold silica gel is chemically inert, non toxic, non-deliquescent and non -corrosive. (chemically inert)
Disposable	Materials meet U.S Pharmacopoeia XXI Class VI toxicity requirements. Hy-Dry contains no metal components. (easy disposal)
Color indicator	When maximum adsorption is reached Hy-Dry will turn from Gold to Green as an indicator to replace it. (easy condition indicator)
Bi-directional air flow	Air inhaled is cleaned and dried, and oil is removed from exhausted air .
Activated carbon	As air is exhausted from the tank activated carbon removes oil vapor, fumes, and odors. (clean exhaust)

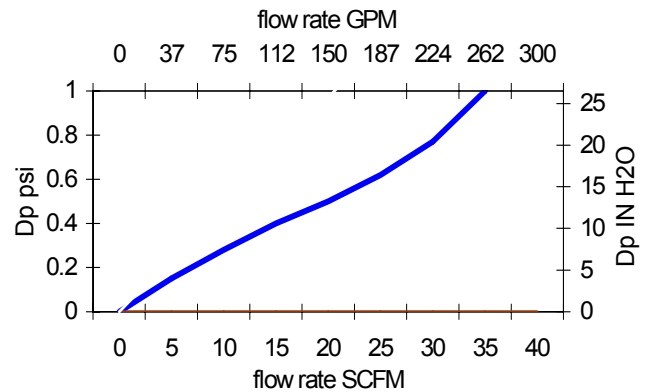
Contaminant	Problem	Solution
Water vapor	Rust & oxidation	Water adsorbent silica
	Additive depletion	
	Freezing	
	Increased conductivity	
	Fluid degradation	
Solid particulate	Component wear	2 micron removal efficiency 100 %
	Stiction	
	Orifice blockage	
Acids & salts	Chemical reaction	100 %
	Microbial growth	
	Overheating	
	Corrosion	





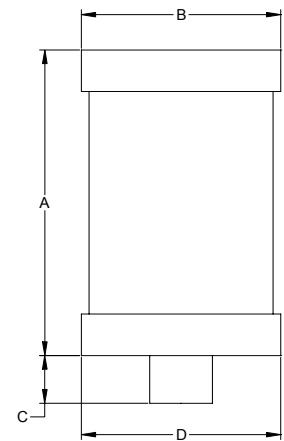
Silica gel changes from Gold to Dark Green indicating saturation (Change breather).

### Hy-Dry pressure drop vs flow rate



## HY-DRY BREATHER AND ADAPTER ORDER GUIDE

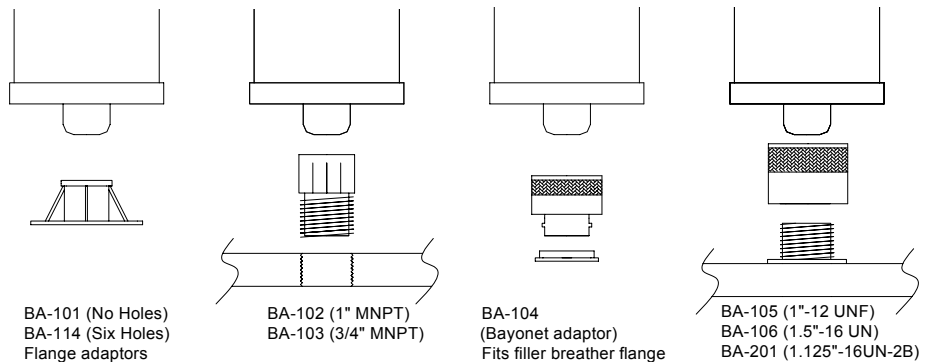
Hy-Dry Cartridge	A	B	C	D	Weight
HPB-100	3.5" (9cm)	5.0" (12,8cm)	1.25" (3,2cm)	5.0" (12,8cm)	1.3lb (0.6kg)
HPB-101	5.0" (12,8cm)	5.0" (12,8cm)	1.25" (3,2cm)	5.0" (12,8cm)	1.9lb (0.9kg)
HPB-102	8.0" (20,5cm)	5.0" (12,8cm)	1.25" (3,2cm)	5.0" (12,8cm)	3.3lb (1.5kg)
HPB-302*	8.5" (21,8cm)	5.0" (12,8cm)	N/A	5.2" (13,3cm)	3.3lb (1.5kg)
HPBR-102*	9.5" (24,4cm)	5.0" (12,8cm)	N/A	5.2" (13,3cm)	5.0lb (2.3kg)



\*HPBR-102 assembly is complete with a metal reinforced base, that remains with the reservoir or gearbox, and a replacement breather cartridge (HPB-302) threaded into the base. Upon indication remove the cartridge only (HPB-302) and replace with a new cartridge. The HPBR-102 assembly is recommended for Heavy Duty, Continuous vibration, and Extreme climate applications. HPBR-102 has a 1" Male NPT connection.

### Don't forget the adaptor for Retro-fits and New installations!!

Hy-Dry Adaptor	Type
HPBA-101	Flange (no holes)
HPBA-102	1" Male NPT
HPBA-103	3/4" Male NPT
HPBA-104	Bayonet (standard filler/breather flange)
HPBA-105	1"-12 UNF
HPBA-106	1 1/2"-16 UNF
HPBA-114	Flange (6 holes)
HPBA-201	1 1/8"-16UNF





# HPK/KT/K3/KSX

Interchanges HF4 type, Schroeder K series element

## 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	HPK = 150 psid (10 bar) HPK1 = 1000 psid (140 bar) HPK3 = 3000 psid (210 bar) HPKSX = 3000 psid (210 bar) HPKT = 150 psid (10 bar)

### 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

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

Schroeder K, KK, 27K series  
Pall HC9700 series  
Automotive HF4 type  
Hydac HK, H2K, H3K

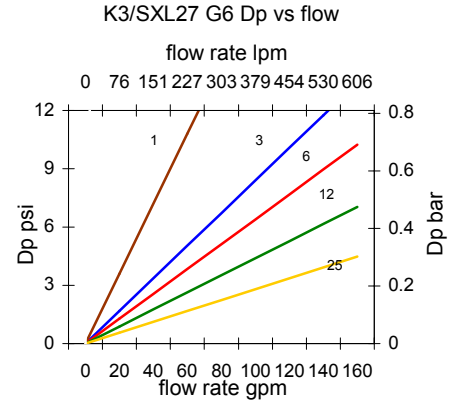
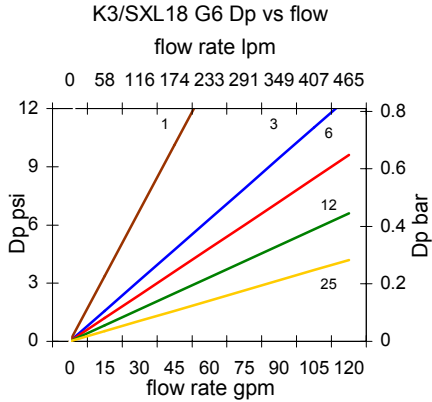
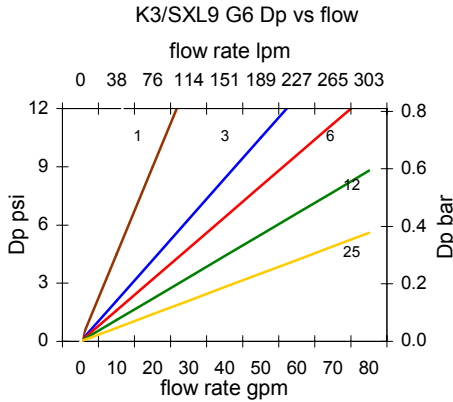
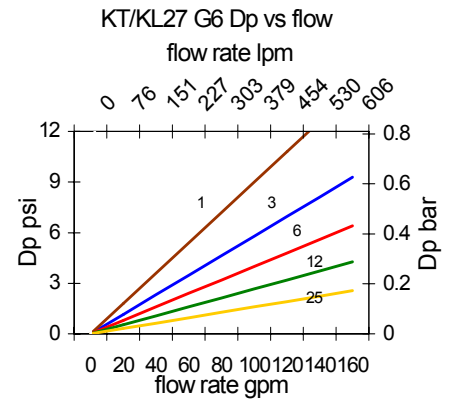
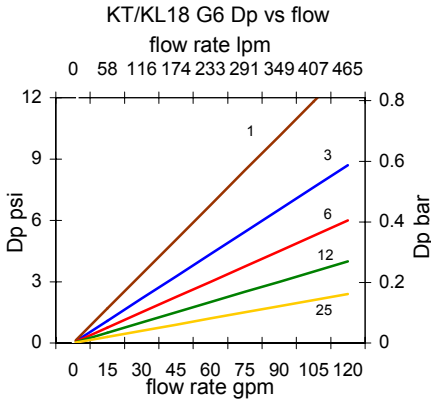
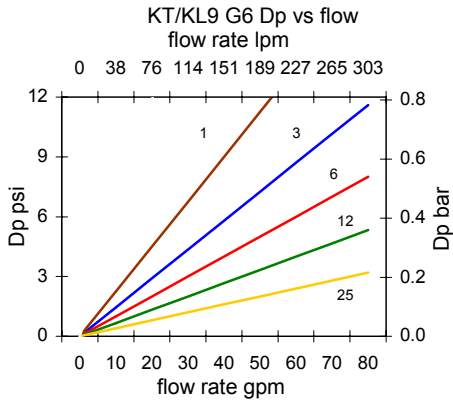
\*Hy-Pro elements feature one piece construction with no element stacking or adapters yielding fewer leak points and easier servicing.

Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.

### Fluid Compatibility

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



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HPK \_ \_ L \_ \_ - \_ \_ \_ \_

table 1 code	series and collapse
omit	150 psid
1	1000 psid
3	3000 psid
SX	3000 psid 3.12" OD
T	150 psid reverse flow

table 2 code	length
9	single
18	double
27	triple
28	28 inch

table 3 code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200) or 3u nominal cellulose
6	B7[c] = 1000 (B6 = 200)
10	10u nominal cellulose
12	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh or 25u nominal cellulose
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh
250	250u nominal wire mesh

table 4 code	media type
C*	Cellulose
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

\*C media only with K series

table 5 code	seal material
B	Nitrile grommet
E	EPR grommet
ORB	Nitrile o-ring
ORV	Fluorocarbon o-ring
V	Fluorocarbon o-ring

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

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





# HPN/NSX Series

Interchanges Schroeder N series

## 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 HPN = 290 psid (20 bar)  
HPNSX = 3000 psid (210 bar)

### 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

### Fluid Compatibility

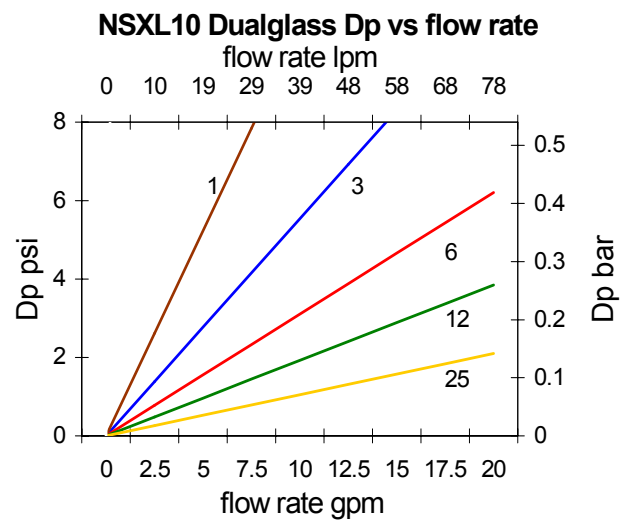
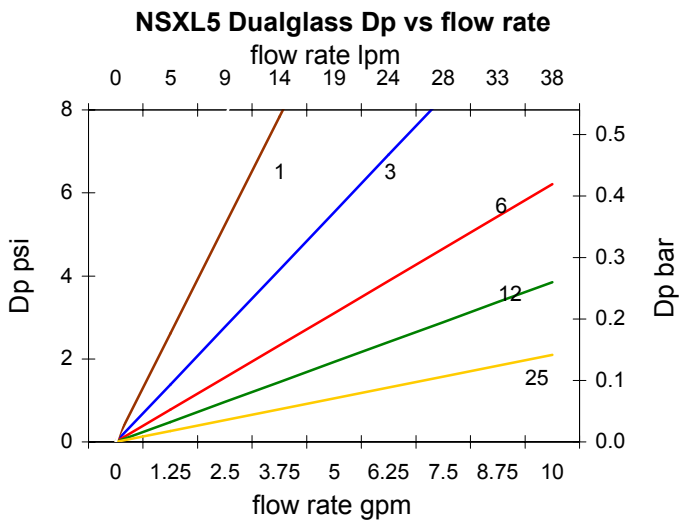
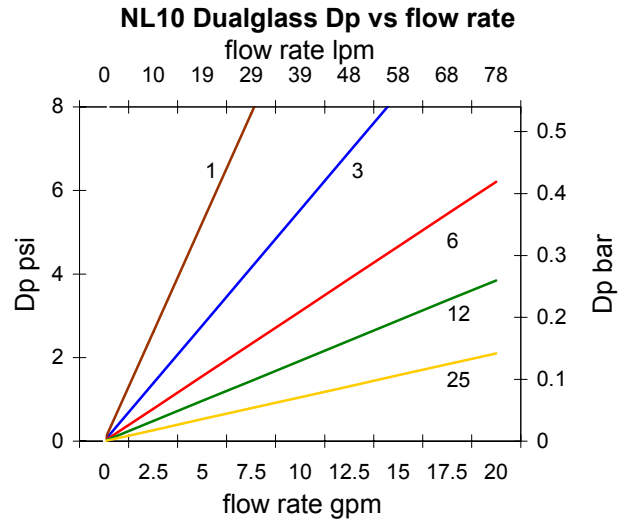
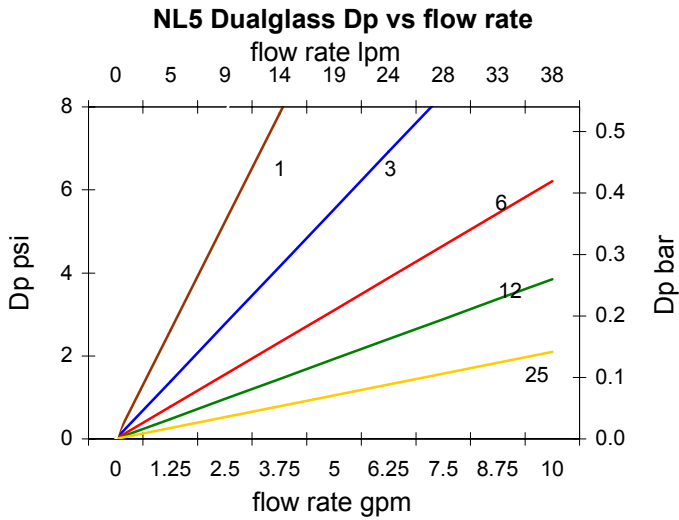
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF

### Interchange

Schroeder	Hy-Pro
NNS.5	HPNL10-1MB
NNS1	HPNL10-3MB
NNS15	HPNL10-25MB
NNS3	HPNL10-6MB
NNS7	HPNL10-12MB
NNSX15	HPNSXL10-12MB
NNSX3	HPNSXL10-3MB
NNSX7	HPNSXL10-6MB
NNZ1	HPNL10-1MB
NNZ3	HPNL10-3MB
NNZ5	HPNL10-6MB
NNZ10	HPNL10-12MB
NNZ25	HPNL10-25MB
NS.5	HPNL5-1MB
NS1	HPNL5-3MB
NS15	HPNL5-25MB
NS3	HPNL5-6MB
NS7	HPNL5-12MB
NSX15	HPNSXL5-12MB
NSX3	HPNSXL5-3MB
NSX7	HPNSXL5-6MB
NZ1	HPNL5-1MB
NZ3	HPNL5-3MB
NZ5	HPNL5-6MB
NZ10	HPNL5-12MB
NZ25	HPNL5-25MB

\*For Viton seals (where Schroeder p/n ends with V) replace the B in Hy-Pro p/n with a V.

\*For cellulose replacements (where Schroeder p/n does not have a S or Z after the N call or consult interchange guide



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1

table 2

table 3

table 4

table 5

# HPN \_ \_ L \_ \_ - \_ \_ \_ \_ \_

table 1	
code	collapse
omit	290 psid
SX	3000 psid

table 2	
code	length
5	single
10	double

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)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 4	
code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 5	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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





# HPRP83 Series

Interchanges for PTI coreless filter  
RP83-150-#, RP83-250-# series

## 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 150 psid (10 bar)

### 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

### Interchange PTI

RP83-150-GF-B  
RP83-150-GF-V  
RP83-150-HF-B  
RP83-150-HF-V  
RP83-150-JF-B  
RP83-150-JF-V  
RP83-150-KF-B  
RP83-150-KF-V

RP83-250-GF-B  
RP83-250-GF-V  
RP83-250-HF-B  
RP83-250-HF-V  
RP83-250-JF-B  
RP83-250-JF-V  
RP83-250-KF-B  
RP83-250-KF-V

### Hy-Pro

HPRP83L16-3MB  
HPRP83L16-3MV  
HPRP83L16-6MB  
HPRP83L16-6MV  
HPRP83L16-25MB  
HPRP83L16-25MV  
HPRP83L16-12MB  
HPRP83L16-12MV

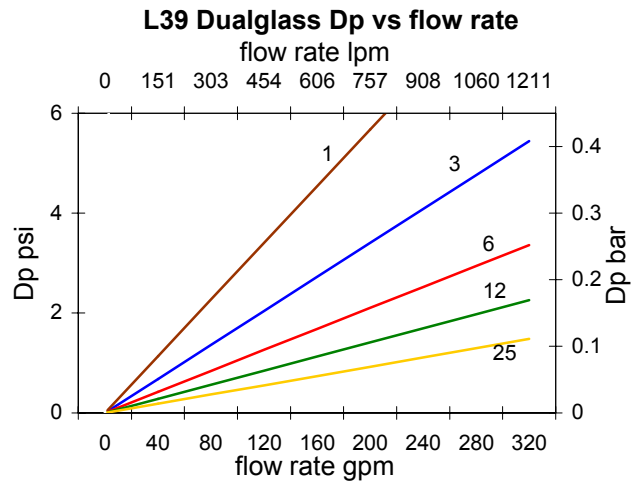
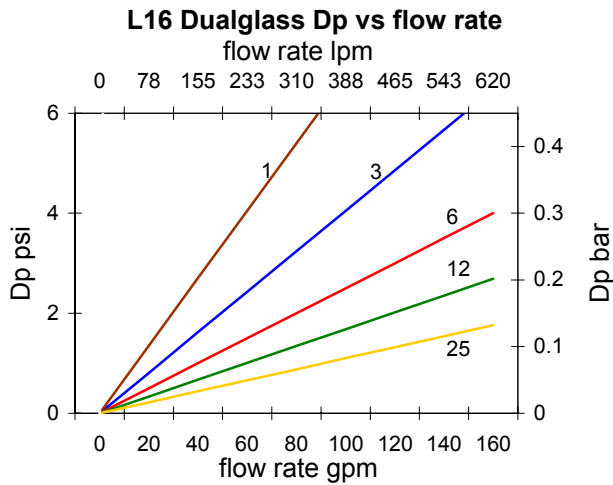
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HPRP83L39-3MV  
HPRP83L39-6MB  
HPRP83L39-6MV  
HPRP83L39-25MB  
HPRP83L39-25MV  
HPRP83L39-12MB  
HPRP83L39-12MV

Dualglass, Wire mesh, Water removal and Dynafuzz media types are 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 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Actual Viscosity}/150 \times \text{Actual SG}/0.86$$

Pressure drop curves based on oil viscosity of 150 SUS, 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 Vis/150 x SG/0.86

table 1      table 2      table 3      table 4

# HPRP83L \_\_\_\_\_ - \_\_\_\_\_

table 1	
code	length
16	double
39	triple

table 2	
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 25u nominal wire mesh
40	40u nominal wire mesh
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

table 4	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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





# HPTL1/X1 Series

Interchanges for Fairey Arlon

TX, TX2, TX3, TX3D, TXW, TXW2, TXW3, TXW3D

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
 -20f to 250f, -29c to 120c (viton)  
 Max flow rate 32 gpm (121 lpm)  
 Element collapse 150 psid (17 bar)

### Interchange

Fairey Arlon	Hy-Pro
*TX-#	HPTX1L2-#MB
*TXX-#	HPTX1L2-#MB
*TX2-#	HPTX1L4-#MB
*TXX2-#	HPTX1L4-#MB
*TX3-#	HPTX1L6-#MB
*TXX3-#	HPTX1L6-#MB
*TX3D-#	HPTX1L8-#MB
*TXX3D-#	HPTX1L8-#MB
<i>*G5 Dualglass upgrade from cellulose</i>	
TXW-#	HPTX1L2-#MB
TXW2-#	HPTX1L4-#MB
TXW3-#	HPTX1L6-#MB
TXW3D-#	HPTX1L8-#MB
TXWL-#	HPTL1L2-#MB
TXWL2-#	HPTL1L4-#MB
TXWL3-#	HPTL1L6-#MB
TXWL3D-#	HPTL1L8-#MB
ST-#	HPTX1L2-#WB
ST2-#	HPTX1L4-#WB
ST3-#	HPTX1L6-#WB
ST3D-#	HPTX1L8-#WB

### 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.

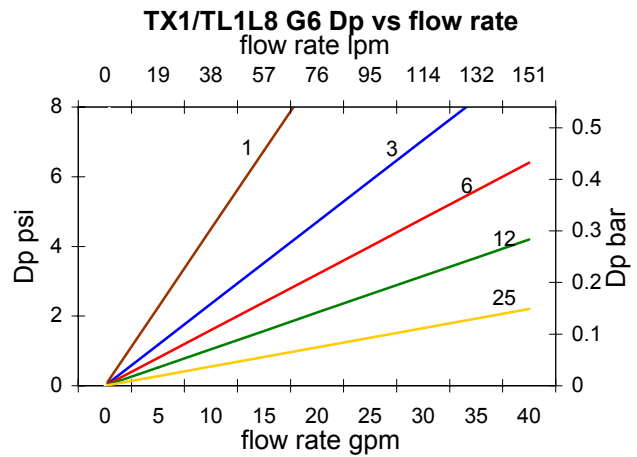
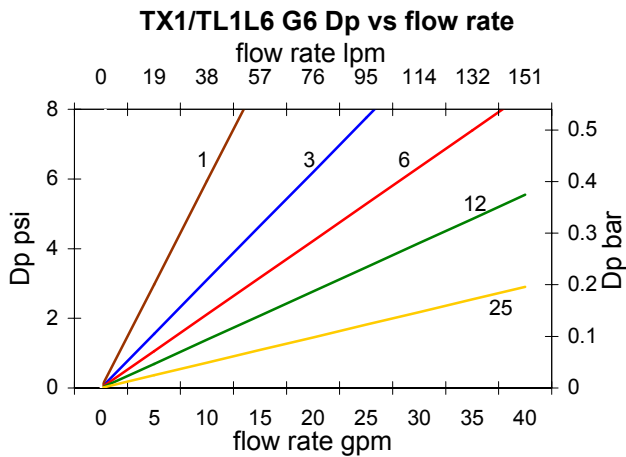
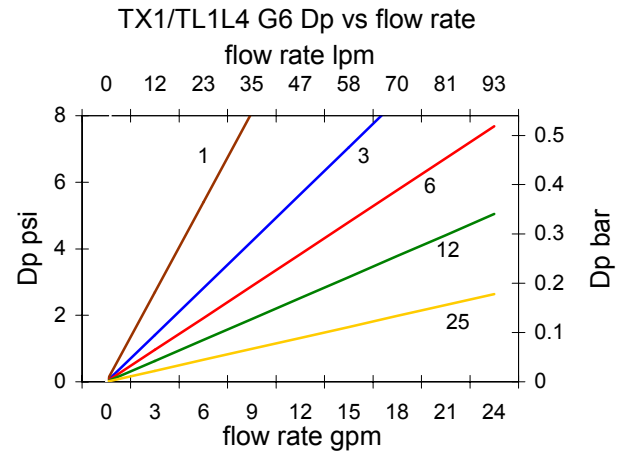
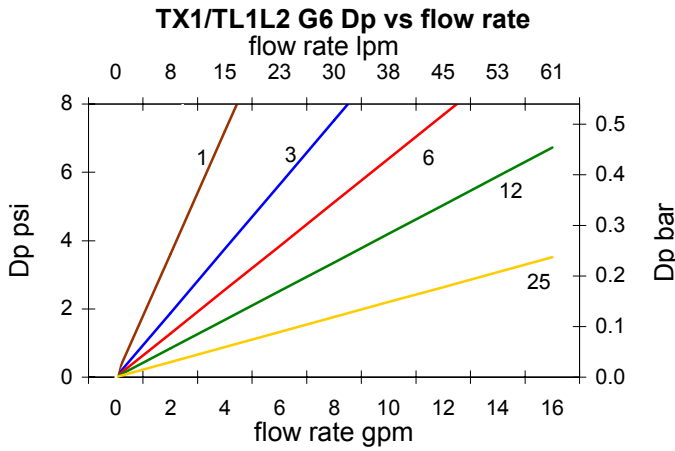
### Tested to ISO quality standards

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

For viton seals replace "B" in HP no. with "V"  
 Also available in stainless steel mesh media. 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 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP_{\text{element}} = DP_{\text{curve}} \times \text{Viscosity}/150 \times SG/0.86$$

table 1

table 2

table 3

table 4

table 5

table 6

# HPT \_ 1L \_ \_ \_ \_ \_

table 1		endcap config	
code	config		
L	coreless		
X	metal hardware		

table 2		length	
code	length		
2	single		
4	double		
6	triple		
8	quad		

table 3		filtration rating	
code	filtration rating		
1	B2.5[c] = 1000 (B1 = 200)		
3	B5[c] = 1000 (B3 = 200)		
6	B7[c] = 1000 (B6 = 200)		
10	B12[c] = 1000 (B12 = 200) or 10u nominal wire mesh		
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh		
40	40u nominal wire mesh		
60	74u nominal wire mesh		
100	100u nominal wire mesh		
120	120u nominal wire mesh		

table 4		media type	
code	media type		
M	G6 Dualglass		
W	wire mesh		

table 5		seal	
code	seal		
B	Nitrile (buna)		
V	Fluorocarbon		
E	EPR		

table 6		special option	
code	special option		
PC	special coating for HWBF		

\*TX series only

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





# HPTL2/X2 Series

Interchanges for Fairey Arlon  
TXX4, TXX5, TXX5A, TXW4, TXW5, TXW5A

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
-20f to 250f, -29c to 120c (viton)  
Max flow rate 80gpm (300 lpm)  
Element collapse 150 psid (17 bar)

### Interchange

Fairey Arlon	Hy-Pro
*MB4B	HPTX2L7-10MB
*MP5B	HPTX2L10-10MB
*MB5AB	HPTX2L18-10MB

*TXX4-10	HPTX2L7-10MB
TXW4-GDL#B	HPTX2L7-#MB
TXWL4-GDL#B	HPTL2L7-#MB

*TXX5-10B	HPTX2L10-10MB
TXW5-GDL#B	HPTL2L10-#MB

*TXX5A-10B	HPTX2L18-10MB
TXW5A-GDL#B	HPTX2L18-#MB
TXWL5A-GDL6B	HPTL2L18-#MB

ST4-#	HPTX2L7-#WB
ST5-#	HPTX2L10-#WB
ST5A-#	HPTX2L18-#WB

\*G5 Dualglass upgrade from cellulose

For viton seals replace "B" in HP no. with "V"  
Also available in stainless steel mesh media. 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

### Media

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

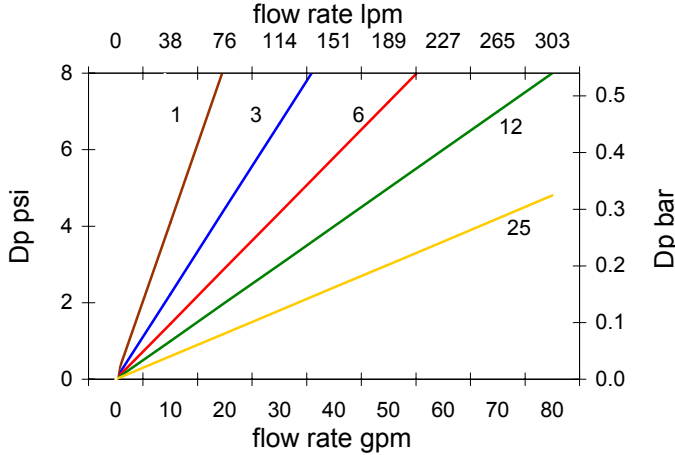
### Dynamic Filter Efficiency

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.

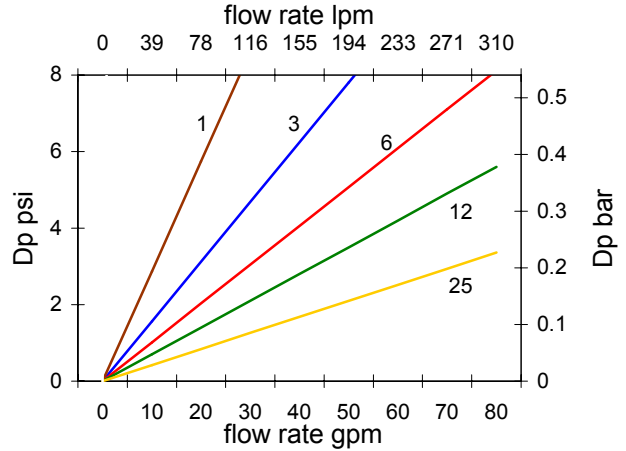
### Tested to ISO quality standards

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

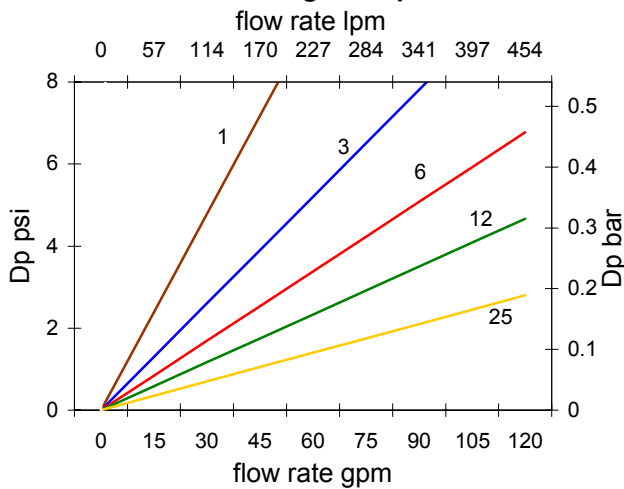
**TX2/TL2L7 Dualglass Dp vs flow rate**



**TX2/TL2L10 Dualglass Dp vs flow rate**



**TX2/TL2L18 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

**DP element = DP curve x Viscosity/150 x SG/0.86**

table 1

table 2

table 3

table 4

table 5

table 6

**HPT 2L -**

table 1 code	endcap config
L	coreless
X	metal hardware

table 2 code	length
7	single
10	double
18	triple

table 3 code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200) or 10u nominal wire mesh
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
100	100u nominal wire mesh
120	120u nominal wire mesh

table 4 code	media type
M	G6 Dualglass
W	wire mesh

table 5 code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

table 6 code	special option
PC	special coating for HWBF

\*TX series only

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





# HPTL3/X3 Series

Interchanges for Fairey Arlon  
TXX8A, TXX8C, TXW8A, TXW8C, ST8A, ST8C

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
-20f to 250f, -29c to 120c (viton)  
Max flow rate 110gpm (416 lpm)  
Element collapse 150 psid (17 bar)

### Interchange

Fairey Arlon	Hy-Pro
*TX8A-#	HPTX3L11-#MB
*TXX8A-#	HPTX3L11-#MB
*TX8C-#	HPTX3L19-#MB
*TXX8C-#	HPTX3L19-#MB
*G5 Dualglass upgrade from cellulose	

TXW8A-#	HPTX3L11-#MB
TXW8C-#	HPTX3L19-#MB
TXWL8A-#	HPTL3L11-#MB
TXWL8C-#	HPTL3L19-#MB

ST8A-#	HPTX3L11-#WB
ST8C-#	HPTX3L19-#WB

For viton seals replace "B" in HP no. with "V"

Also available in stainless steel mesh media. 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

### Media

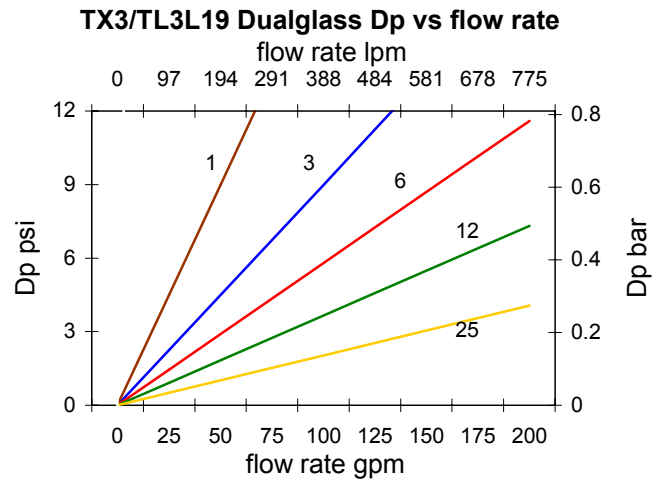
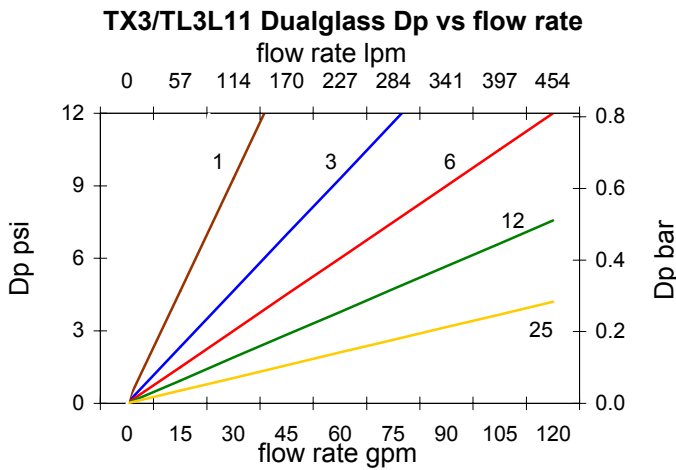
G6 media pleat pack features our latest generation of graded density glass media that delivers required cleanliness while optimizing dirt capacity.

### 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



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1      table 2      table 3      table 4      table 5      table 6

# HPT    3L    -

table 1		endcap config	
code	config		
L	coreless		
X	metal hardware		

table 2		length	
code	length		
11	single		
19	double		

table 3		filtration rating	
code	filtration rating		
1	B2.5[c] = 1000 (B1 = 200)		
3	B5[c] = 1000 (B3 = 200)		
6	B7[c] = 1000 (B6 = 200)		
10	B12[c] = 1000 (B12 = 200) or 10u nominal wire mesh		
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh		
40	40u nominal wire mesh		
60	74u nominal wire mesh		
100	100u nominal wire mesh		
120	120u nominal wire mesh		

table 4		media type	
code	media type		
M	G5 Dualglass		
W	wire mesh		

table 5		seal	
code	seal		
B	Nitrile (buna)		
V	Fluorocarbon		
E	EPR		

table 6		special option	
code	special option		
PC	special coating for HWBF		

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





# HPTL4/X4 Series

Interchanges for Fairey Arlon  
ST/TXX/TXW10, 11, 12, 13, 14 elements

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

Temperature: -45f to 225f, -43c to 107c (buna)  
-20f to 250f, -29c to 120c (viton)  
Max flow rate 450gpm (1700 lpm)  
Element collapse 150 psid (17 bar)

### Interchange

Fairey Arlon	Hy-Pro
*TXX10-#	HPTX4L13-#MB
*TXX11-#	HPTX4L17-#MB
*TXX12-#	HPTX4L21-#MB
*TXX13-#	HPTX4L32-#MB
*TXX14-#	HPTX4L43-#MB
*G5 Dualglass upgrade from cellulose	

TXW10-#	HPTX4L13-#MB
TXW11-#	HPTX4L17-#MB
TXW12-#	HPTX4L21-#MB
TXW13-#	HPTX4L32-#MB
TXW14-#	HPTX4L43-#MB

TXWL10-#	HPTL4L13-#MB
TXWL11-#	HPTL4L17-#MB
TXWL12-#	HPTL4L21-#MB
TXWL13-#	HPTL4L32-#MB
TXWL14-#	HPTL4L43-#MB

ST10-#	HPTX4L13-#WB
ST11-#	HPTX4L17-#WB
ST12-#	HPTX4L21-#WB
ST13-#	HPTX4L32-#WB
ST14-#	HPTX4L43-#WB

For viton seals replace "B" in HP no. with "V"  
Also available in stainless steel mesh media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com)

### 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

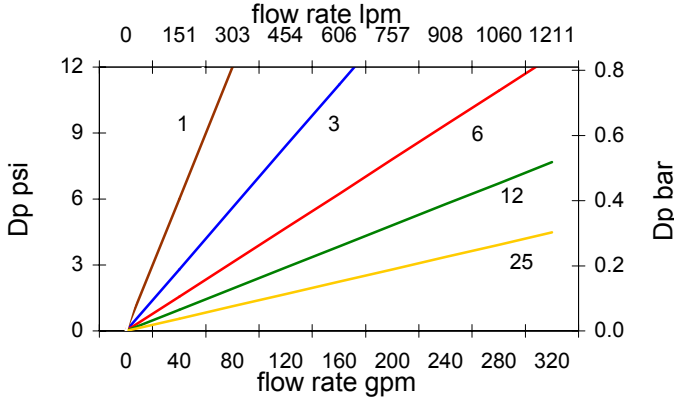
ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

### Fluid Compatibility

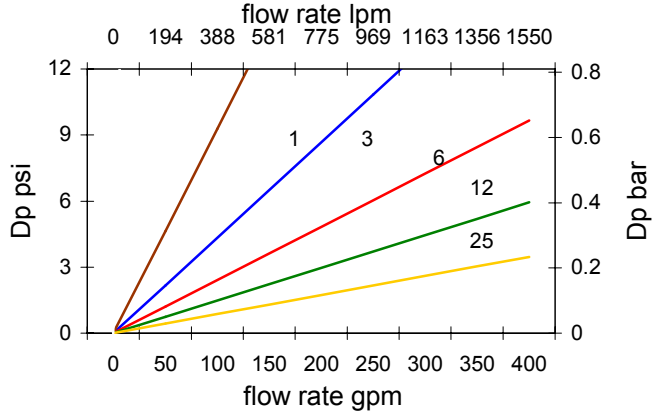
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF



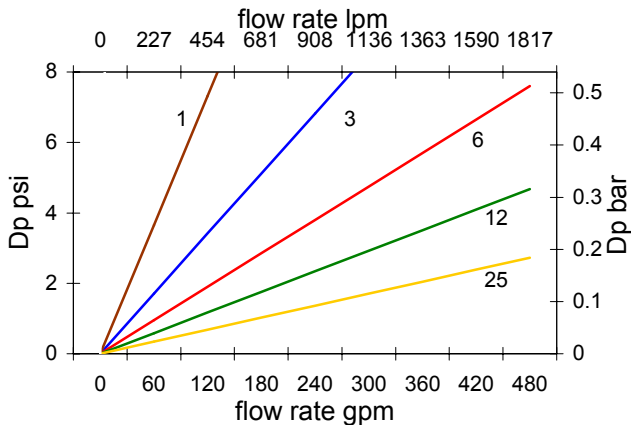
**TX4/TL4L13 Dualglass Dp vs flow rate**



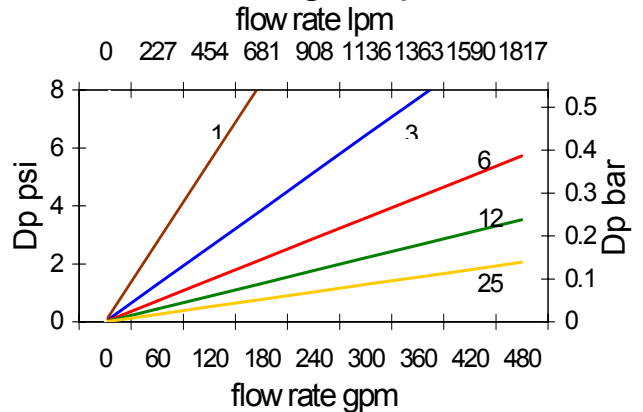
**TX4/TL4L21 Dualglass Dp vs flow rate**



**TX4/TL4L32 Dualglass Dp vs flow rate**



**TX4/TL4L43 Dualglass Dp vs flow rate**



**Pressure Drop Calculation**

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

**DP element = DP curve x Viscosity/150 x SG/0.86**

table 1      table 2      table 3      table 4      table 5      table 6

**HPT    4L    -    -    -    -    -    -**

table 1 endcap	
code	config
L	coreless
X	metal hardware

table 2	
code	length
13	single
17	Single extended
21	triple
32	quad
43	extended

table 3	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
10	B12[c] = 1000 (B12 = 200) or 10u nominal wire mesh
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
60	74u nominal wire mesh
100	100u nominal wire mesh
120	120u nominal wire mesh

table 4	
code	media type
M	G5 Dualglass
W	wire mesh

table 5	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

table 6	
code	special option
PC	special coating for HWBF

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





# Transmission kits

for Allison 3000 / 4000, B300 / 400 series, and 300MH / 400MH series automatic transmissions.

## Hy-Pro G6 Dualglass High Performance Filter Elements

### Performance

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

### Fluid Compatibility

Petroleum based fluids, TranSynd™, and other specified synthetic transmission fluids.

### Media

Developed to meet and exceed the performance of Allison Gold Series filters, the G6 media 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 severe conditions with dynamic flow, vibration, and high temperature spikes. Today's mobile transmission circuits require elements that deliver specified cleanliness under all circumstances. Wire mesh supports the media to guard against cyclical flow fatigue, chemical resistance, and temperature 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

### Interchanges

#### Allison

1905004  
1907008  
1908013  
1908016  
23040988  
23042062  
23049373  
29501202  
29501202A  
29501202B  
29509723  
29509723A  
29509723B  
29510918  
29526898  
29526899  
29538231C (Gold)  
29540493 (Gold)

#### WIX

557741

#### CARQUEST

84741

#### BALDWIN

PT8406-MPG

#### Hy-Pro

HP74L4-6MB  
HP82L8-6MV  
HP60L13-6MV  
HP89L16-6MV  
HP82L8-6MV  
HP74L4-6MB  
HP60L13-3MV  
HPQE98430-10MV  
HPQE98430-10MV  
HPQE98430-10MV  
HPQE98154-10MV  
HPQE98154-10MV  
HPQE98154-10MV  
HPQE98154-10MV  
HP82L8-6MV  
HPQ98154-10MV  
HPQ98430-10MV  
HPQE98430-10MV  
HPQ98430-10MV

#### Hy-Pro

HPQ98430-10MV

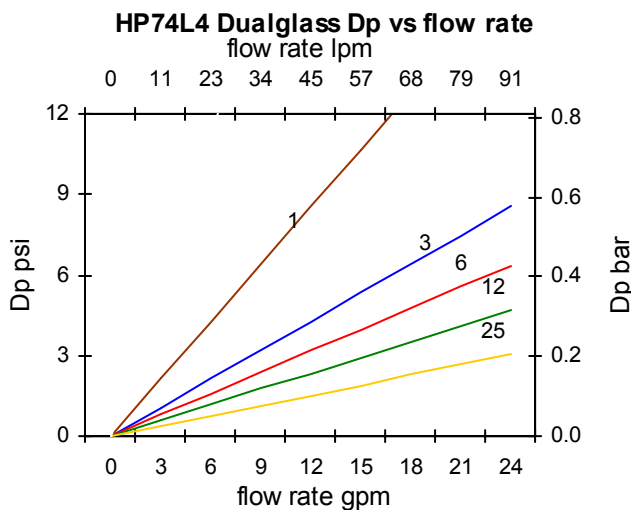
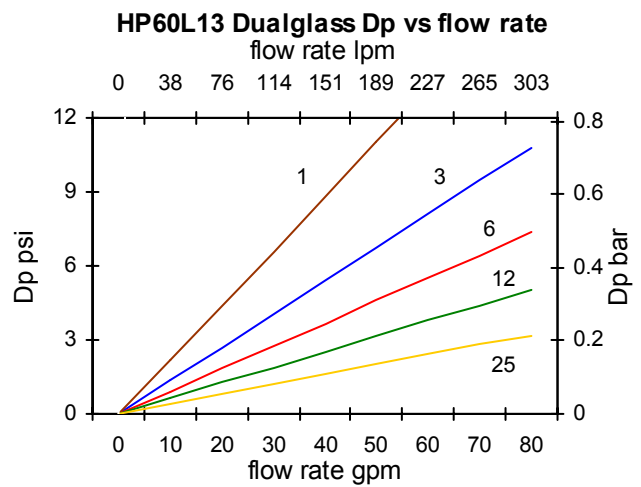
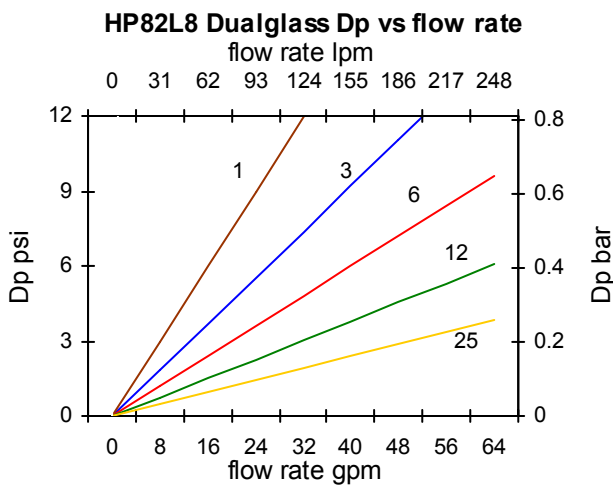
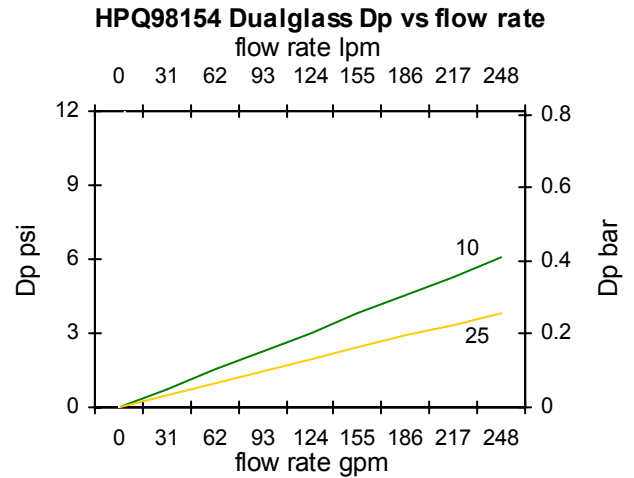
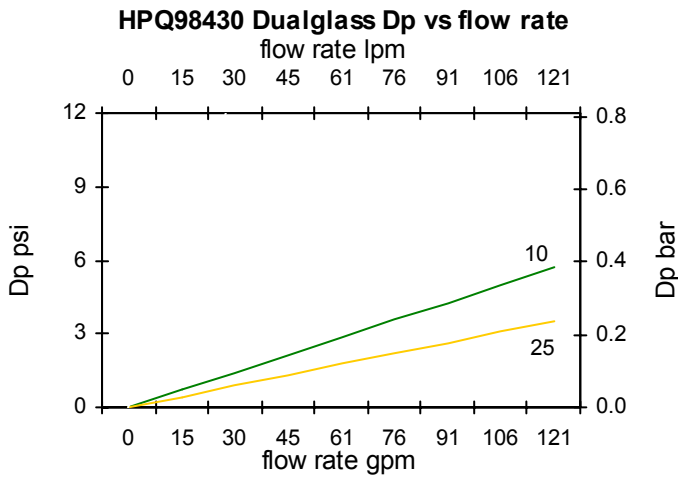
#### Hy-Pro

HPQ98430-10MV

#### Hy-Pro

HPQ98430-10MV

\*All seal kits utilize Fluorocarbon (viton) o-ring seal materials as specified by Allison. Other replacement kits provide nitrile seals.



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$



# HPV/VSX series

Interchanges element for Schroeder #V, #VSX and #VZX 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 HPV = 250 psid (17 bar)  
 HPVVSX = 3000 psid (210 bar)  
 HPVZX = 3000 psid (210 bar)

### 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

### Fluid Compatibility

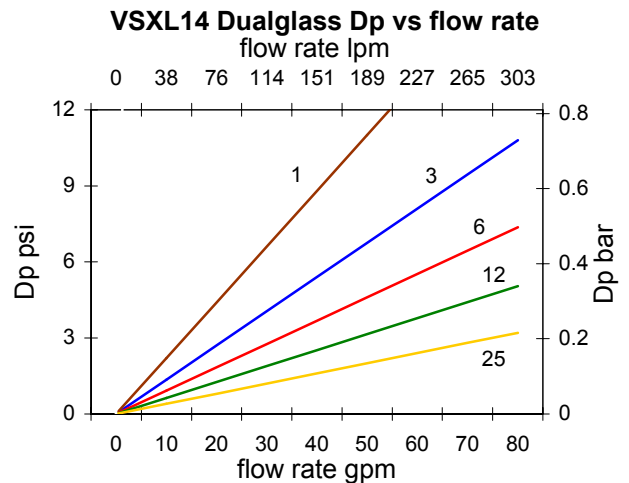
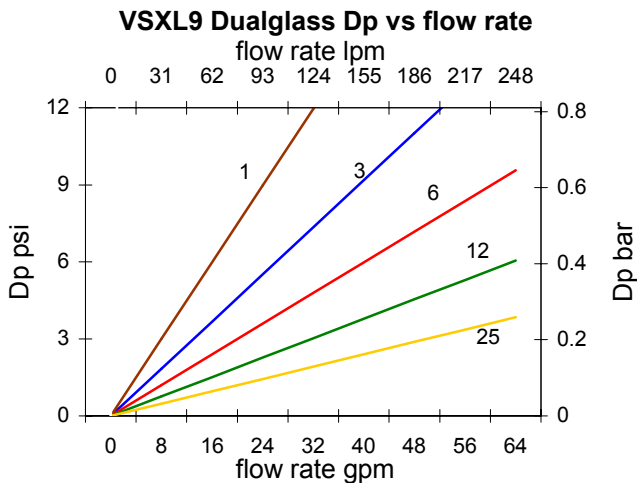
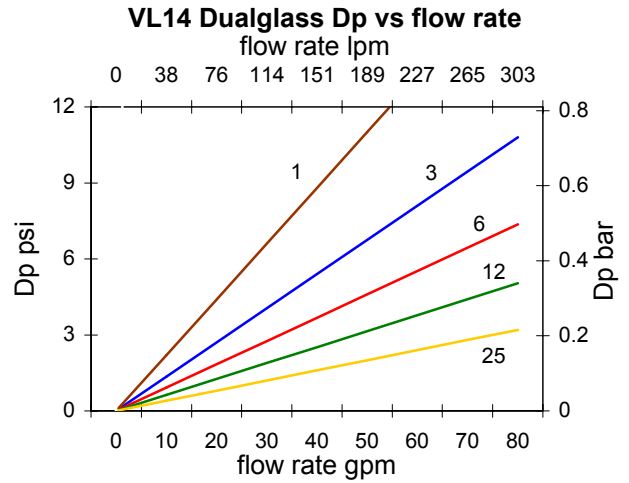
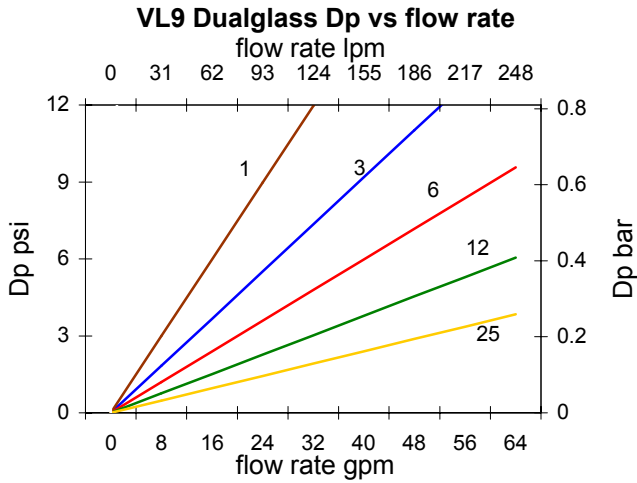
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF

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

Schroeder	Hy-Pro
9VS#	HPVL9-#MB
9VSX#	HPVSXL9-#MB
9VZ#	HPVL9-#MB
9VZX#	HPVSXL9-#MB
14VS#	HPVL14-#MB
14VSX#	HPVSXL14-#MB
14VZ#	HPVL14-#MB
14VZX#	HPVSXL14-#MB

Available media selections include G5 Dualglass, Stainless steel mesh media, Dynafuzz (stainless fiber media), Water removal media. Call or consult the Hy-Pro on line interchange guide at [www.filterelement.com](http://www.filterelement.com).

Seal options include Nitrile (buna), Fluorocarbon (viton), and EPR. See order guide on reverse side for part numbers.



### Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$\text{DP element} = \text{DP curve} \times \text{Viscosity}/150 \times \text{SG}/0.86$$

table 1

table 2

table 3

table 4

table 5

# HPV \_ L \_ - \_ \_ \_

table 1	
code	collapse
SX	3000 psid
omit	250 psid

table 2	
code	length
9	single
14	double

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)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
40	40u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 4	
code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 5	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
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 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

