



# 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.

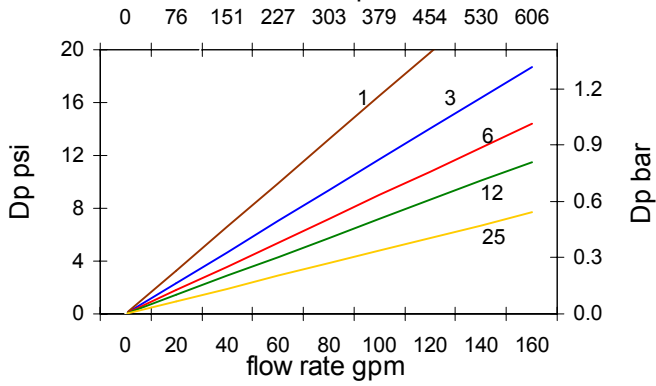
### Bypass Valve

Zero leak, soft seat design eliminates inherently

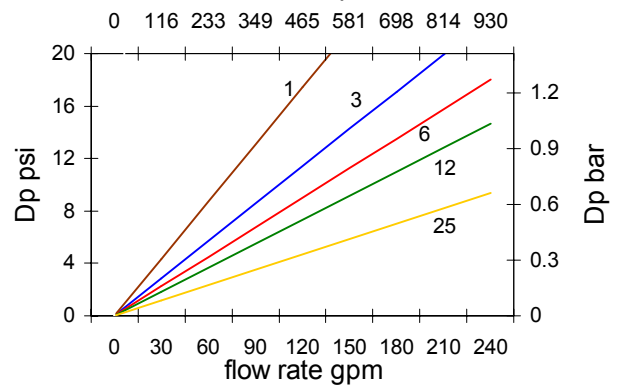
### Tested to ISO quality standards

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

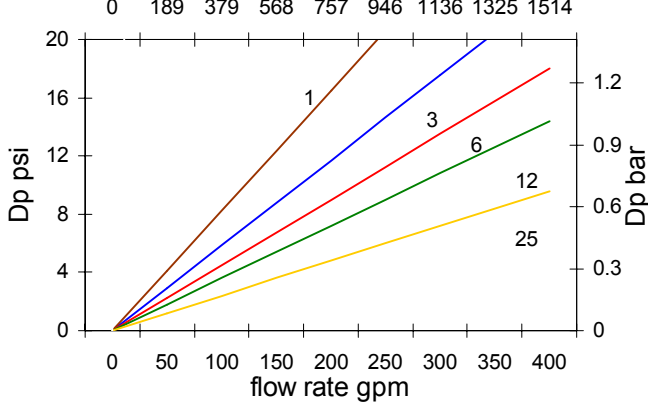
**L14 G6 Dualglass Dp vs flow rate**  
flow rate lpm



**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	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 bypass valve (43psid standard)
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

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

