



# HP03DH, HP03DN

Filter Element Upgrades for Hydac 0030D\*\* Series Pressure Elements

## Hy-Pro G8 Dualglass High Performance Filter Elements

### Performance

Temperature: Buna: -45°F ~ 225°F, -43°C ~ 107°C  
 EPR: -65°F ~ 300°F, -53°C ~ 148°C  
 Viton: -20°F ~ 250°F, -29°C ~ 121°C

Element Collapse: HP03DH: ΔP 3000 psi, ΔP 204 bar  
 HP03DN: ΔP 450 psi, ΔP 30 bar

### Media

G8 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.

### Fluid Compatibility

Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF. Contact Hy-Pro for seal selection assistance.

### 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

#### Hydac / Hycon

- 0030D003BH\*HC
- 0030D003BN\*HC
- 0030D005BH\*HC
- 0030D005BN\*HC
- 0030D010BH\*HC
- 0030D010BN\*HC
- 0030D020BH\*HC
- 0030D020BN\*HC
- 0030D025W
- 0030D025W/HC
- 0030D074W
- 0030D074W/HC
- 0030D149W
- 0030D149W/HC

#### Hy-Pro

- HP03DHL4-3MB
- HP03DNL4-3MB
- HP03DHL4-6MB
- HP03DNL4-6MB
- HP03DHL4-12MB
- HP03DNL4-12MB
- HP03DHL4-25MB
- HP03DNL4-25MB
- HP03DNL4-25WB
- HP03DNL4-25WB
- HP03DNL4-74WB
- HP03DNL4-74WB
- HP03DNL4-149WB
- HP03DNL4-149WB

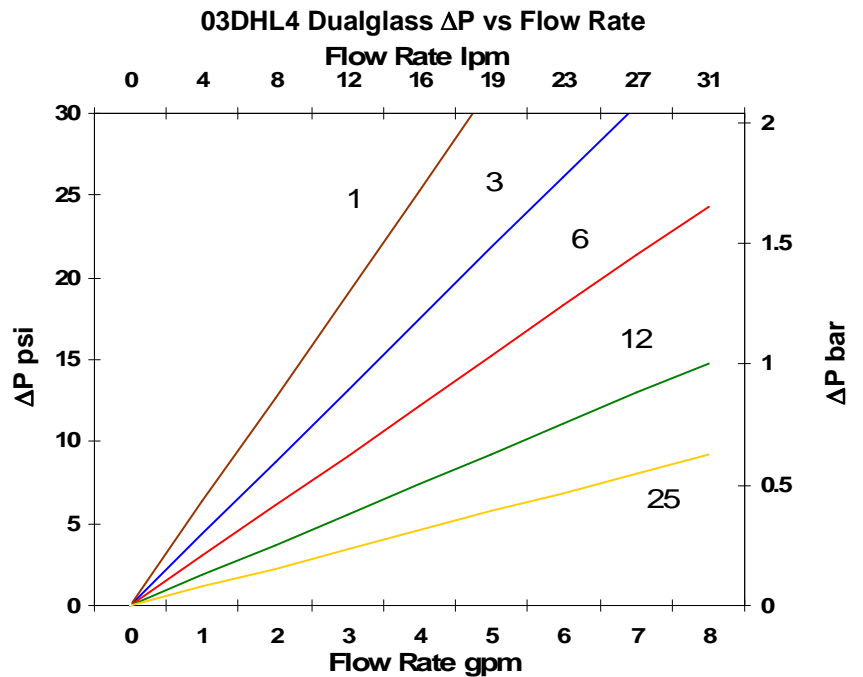
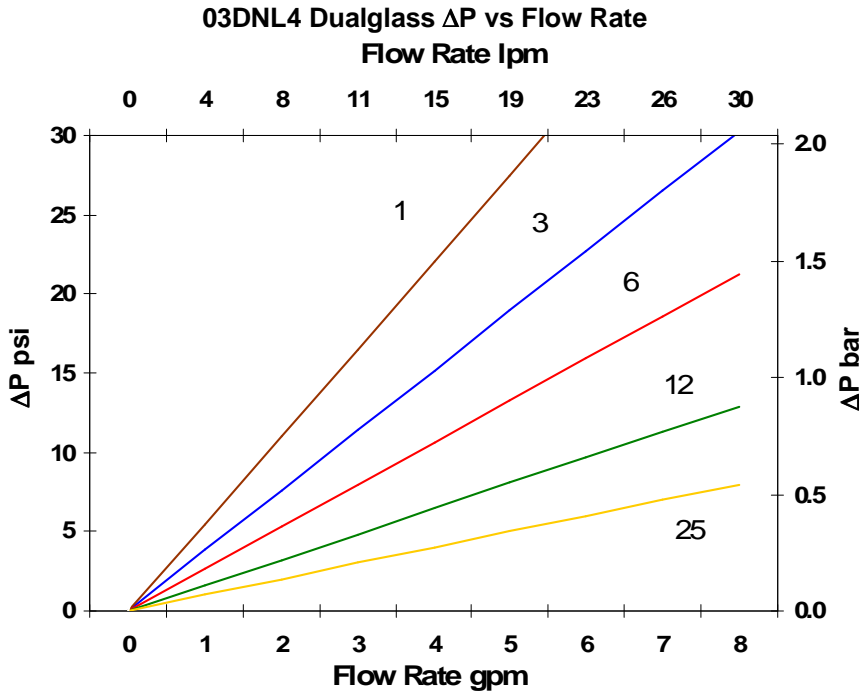
If no HC in Hydac/Hycon p/n or number not listed above call or consult interchange guide. If Hydac/Hycon p/n is BHHC, BH3HC, BNHC, BN3HC, BN4HC, or BH4HC the Hy-Pro p/n does not change. For Viton seals replace the B in Hy-Pro p/n with a V.

Available media selections include G8 Dualglass, Stainless Steel Mesh Media, Dynafuzz (Stainless Fiber Media), and Water Removal Media. Seal options include Nitrile (Buna), Fluorocarbon (Viton), and EPR. Call or consult the Hy-Pro online interchange guide at [www.filterelement.com](http://www.filterelement.com).



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# FILTER ELEMENT FLOW vs PRESSURE DROP



**Adjusted Pressure Drop** : Pressure drop curves based on viscosity 150 SUS / 32 cSt, and specific gravity = 0.86. Element ΔP varies with viscosity and specific gravity. To adjust ΔP factor for different viscosities use the following formula:

**Kinematic Viscosity in SUS:**  $\Delta P \text{ Element} = \Delta P \text{ Curve} \times \text{Actual Viscosity SUS}/150 \times \text{Actual SG}/0.86$

**Kinematic Viscosity in cSt:**  $\Delta P \text{ Element} = \Delta P \text{ Curve} \times \text{Actual Viscosity cSt}/32 \times \text{Actual SG}/0.86$

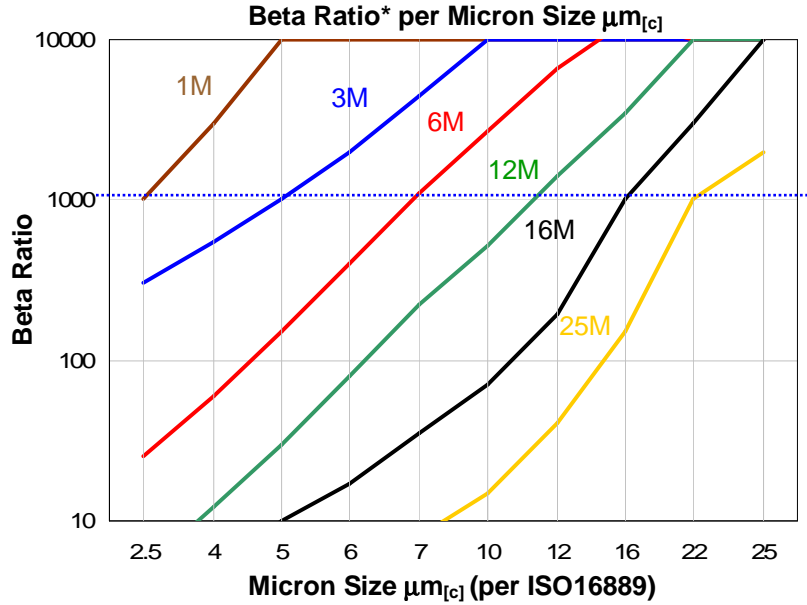
Centistoke to SUS conversion: 1 cSt = 4.63 SUS



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# FILTER ELEMENT MEDIA PERFORMANCE

Efficiency, Apparent Dirt Holding Capacity, H<sub>2</sub>O Capacity Numbers Based on Viscosity 150 SUS (32 cSt) at 100°F (40°C)



## FILTER ELEMENT PART NUMBER GUIDE

Table 1   Table 2   Table 3   Table 4   Table 5

# HP03D    \_\_\_    \_\_\_    L    -    \_\_\_    \_\_\_

Table 1 Code	Element Collapse
H	ΔP 3000 psi
N	ΔP 450 psi

Table 2 Code	End Cap and Support Tube Material
Omit	Plated Carbon Steel
S	Stainless Steel

Table 3 Code	Overall Length
2	~2.345"
4	~3.650"

Table 4 Code	Media Selection
1M	$\beta_{2.5[c]} = 1000$ ( $\beta_1 = 200$ )
3M	$\beta_{5[c]} = 1000$ ( $\beta_3 = 200$ )
3SF*	$\beta_{5[c]} = 1000$ ( $\beta_3 = 200$ ) Dynafuzz
6M	$\beta_{7[c]} = 1000$ ( $\beta_6 = 200$ )
6SF*	$\beta_{7[c]} = 1000$ ( $\beta_6 = 200$ ) Dynafuzz
10SF*	$\beta_{12[c]} = 1000$ ( $\beta_{12} = 200$ ) Dynafuzz
12M	$\beta_{12[c]} = 1000$ ( $\beta_{12} = 200$ )
25M	$\beta_{22[c]} = 1000$ ( $\beta_{25} = 200$ )
25A	$\beta_{22[c]} = 1000$ ( $\beta_{25} = 200$ ) + Water Removal
25W*	25μ Nominal Wire Mesh
25SF*	$\beta_{22[c]} = 1000$ ( $\beta_{25} = 200$ ) Dynafuzz
40W*	40μ Nominal Wire Mesh
50W*	50μ Nominal Wire Mesh
74W*	74μ Nominal Wire Mesh
149W*	149μ Nominal Wire Mesh
250W*	250μ Nominal Wire Mesh

Table 5 Code	Seal
B	Nitrile (Buna)
V	Fluorocarbon (Viton)
E-WS**	EPR + Stainless Steel Support Mesh (Skydrol Fluid Applications)

\*\*For Phosphate Ester Use Viton

\*Limited Availability (Call Factory)

FE-03DH-03DN-031209

[www.filterelement.com](http://www.filterelement.com)



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