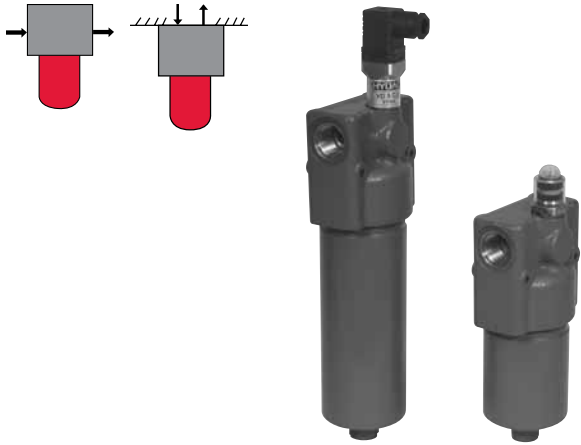


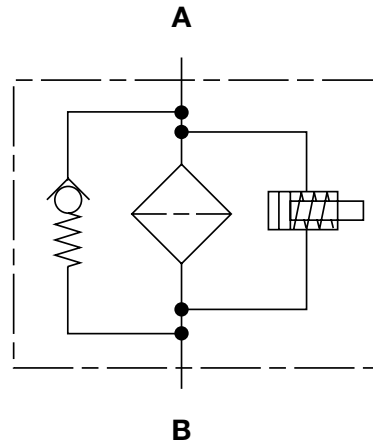
## HF2P Series

### Inline Filters

4000 psi • up to 25 gpm



### Hydraulic Symbol



### Features

- Non-welded housing design reduces stress concentrations and prevents fatigue failure.
- Inlet/Outlet port options include SAE straight thread O-ring boss, BSPP and subplate mounting to allow easy installation without costly adapters.
- O-ring seals are used to provide positive, reliable sealing. Choice of O-ring materials (Nitrile, Fluoroelastomer, EPDM) provides compatibility with petroleum oils, synthetic fluids, water-glycols, oil/water emulsions, and high water base fluids.
- Screw-in bowl mounted below the filter head requires minimal clearance to remove the element for replacement, and contaminated fluid cannot be washed downstream when element is serviced.
- Clogging indicators are actuated by differential pressure and have no external dynamic seal. High reliability is achieved and magnetic indicator actuation eliminates a potential leak point.
- A poppet type bypass valve is typically mounted out of the flow path between the inlet and outlet port to provide positive sealing during normal operation and fast response during cold starts and flow surges.
- Fatigue pressure rating equals maximum allowable working pressure rating.

### Applications



Agricultural



Automotive



Construction



Industrial

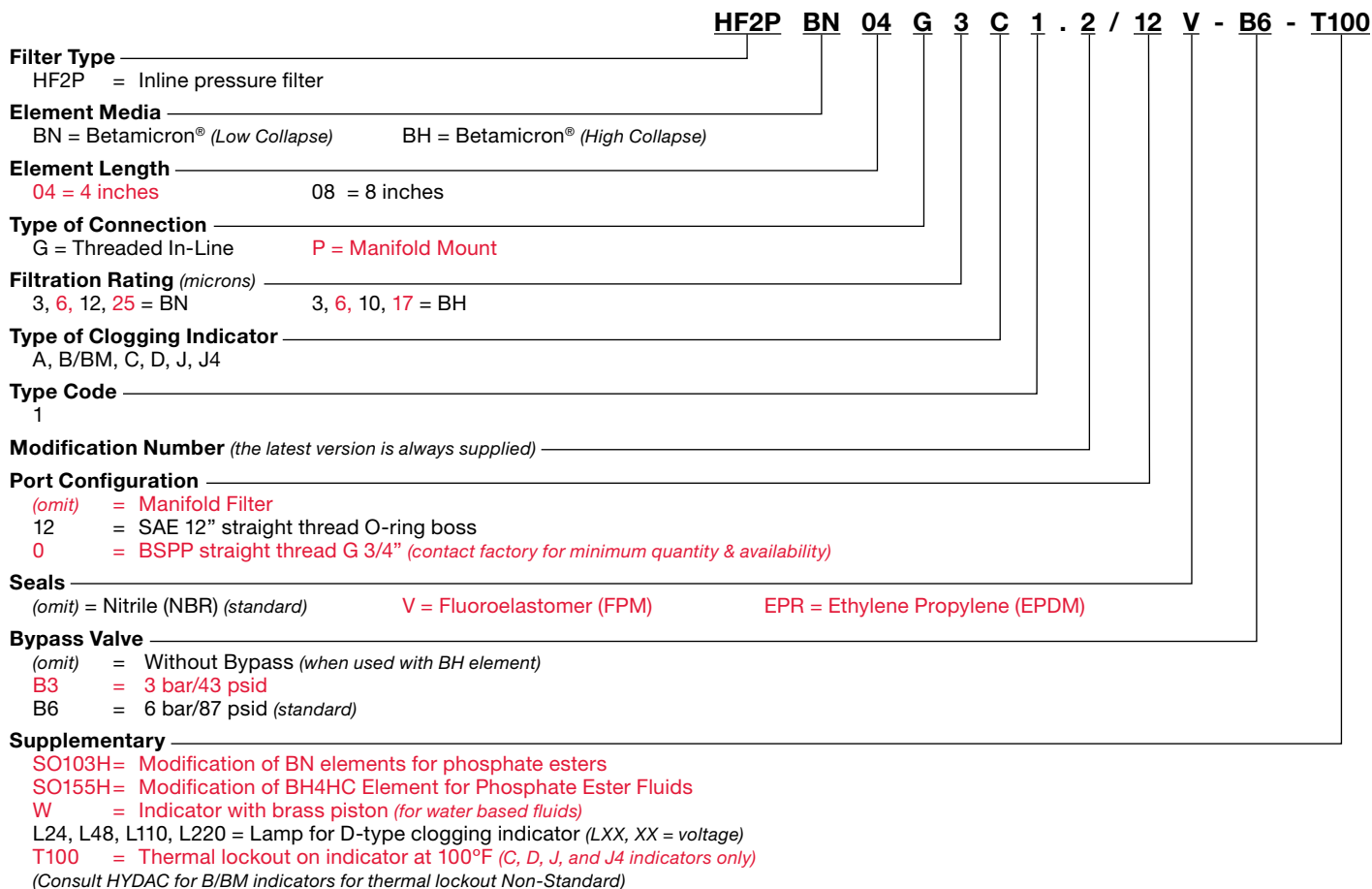


Railways

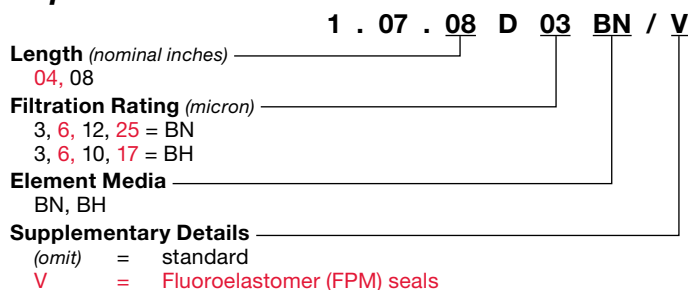
### Technical Details

<b>Mounting Method</b>	2 mounting holes	
<b>Port Connection</b>	SAE-12, 3/4" BSPP, Manifold Mount	
<b>Flow Direction</b>	Inlet: Side	Outlet: Side
<b>Construction Materials</b>		
Head	Ductile iron	
Bowl	Steel	
<b>Flow Capacity</b>		
4"	16 gpm (60 lpm)	
8"	25 gpm (94 lpm)	
<b>Housing Pressure Rating</b>		
Max. Operating Pressure	4000 psi (275 bar)	
Proof Pressure	6000 psi (420 bar)	
Fatigue Pressure	4000 psi (275 bar) @ 1 million cycles	
Burst Pressure	14,680 psi (1012 bar)	
<b>Element Collapse Pressure Rating</b>		
BH/HC	3045 psid (210 bar)	
BN	290 psid (20 bar)	
<b>Fluid Temperature Range</b>	-22° to 250°F (-30° to 121°C)	
<b>Fluid Compatibility</b>		
Compatible with all petroleum oils and synthetic fluids rated for use with Fluoroelastomer or Ethylene Propylene seals. Contact HYDAC for information on special housing and element constructions available for use with water glycols, oil/water emulsions, and HWBF.		
<b>Indicator Trip Pressure</b>		
$\Delta P = 29$ psid (2 bar) -10% (optional)		
$\Delta P = 72$ psid (5 bar) -10% (standard)		
$\Delta P = 116$ psid (8 bar) -10% (optional on bypass)		
<b>Bypass Valve Cracking Pressure</b>		
$\Delta P = 43$ psid (3 bar) +10% (optional)		
$\Delta P = 87$ psid (6 bar) +10% (standard)		
Non Bypass Available		

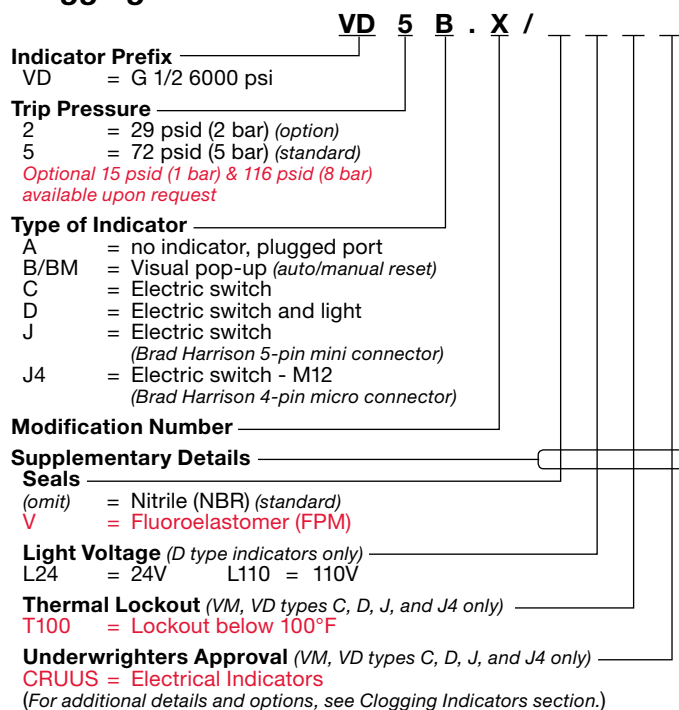
## Model Code



## Replacement Element Model Code



## Clogging Indicator Model Code



Model Codes Containing RED are non-stock items — Minimum quantities may apply — Contact HYDAC for information and availability



## Sizing Information

Total pressure loss through the filter is as follows:

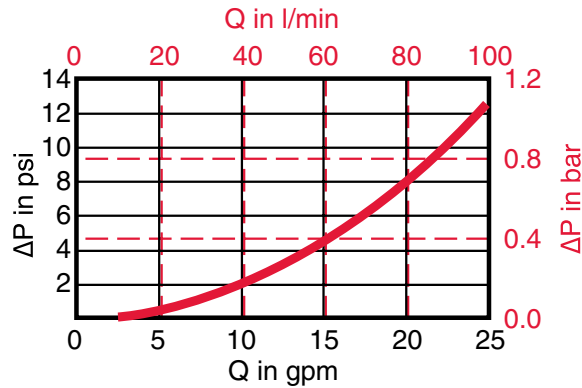
$$\text{Assembly } \Delta P = \text{Housing } \Delta P + \text{Element } \Delta P$$

### Housing Curve:

Pressure loss through housing is as follows:

$$\text{Housing } \Delta P = \text{Housing Curve } \Delta P \times \frac{\text{Actual Specific Gravity}}{0.86}$$

Adjustments must be made for viscosity & specific gravity of the fluid to be used! (see sizing section on page 19)



## Element K Factors

$$\Delta P \text{ Elements} = \text{Elements (K) Flow Factor} \times \text{Flow Rate (gpm)} \times \frac{\text{Actual Viscosity (SUS)}}{141 \text{ SUS}} \times \frac{\text{Actual Specific Gravity}}{0.86}$$

(From Tables Below)

Size	1.07.XXD...BN			
	3 μm	6 μm	12 μm	25 μm
04	2.0461	1.7350	0.9248	0.5313
08	0.9751	0.8152	0.4574	0.2571

Size	1.07.XXD...BH			
	3 μm	6 μm	10 μm	17 μm
04	2.3965	1.6883	1.0266	0.5384
08	1.1652	0.8208	0.4991	0.2618

All Element K Factors in psi / gpm.