PFH62

High Pressure In-Line Filter Assemblies

Hy-Pro's PFH62 pressure filters are designed to protect sensitive components in hydraulic circuits. Install the series upstream of specific components or directly after the pressure pump to minimize risk of failure and costly system downtime.

Ideal for use as a power unit pump discharge filter and to protect components that are sensitive to particulate contamination and require clean pressurized fluid for reliable operation, such as servo valves.

Max Flow Rate: 150 gpm (568 lpm)

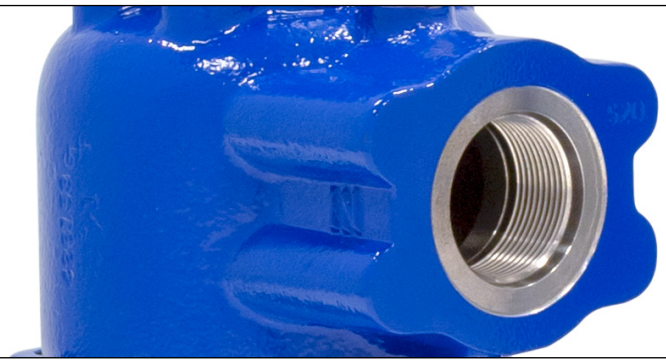
Max Operating Pressure: 6,600 psi (455 bar)

Donaldson HY-PRO™

hyprofiltration.com/

Dynamic Filter Efficiency

Hydraulic applications see dynamic flow changes on a regular basis. Dynamic Filter Efficiency testing takes the ISO16889 Multi-Pass testing even further with variable flow shifts to ensure your filter elements stand up to real world conditions and maintain the highest capture and retention rates in the industry.

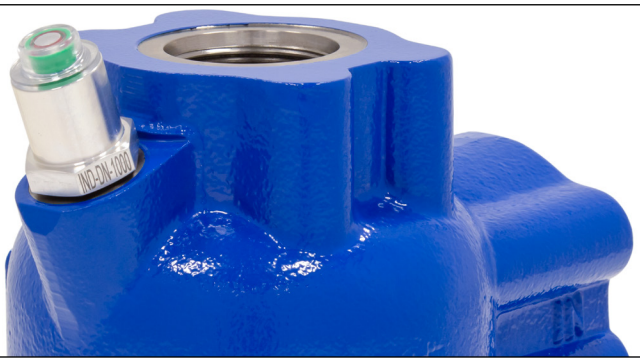


Unique applications.

With available nickel plating, the PFH62 is an ideal choice for rough duty, high water contamination applications. Media options include wire mesh, water removal, and Dualglass to address even the most unique contamination. A reverse flow check valve option enables usage in reversing hydrostatic drive systems.

Industrial duty.

Standard mounting holes for an optional mounting bracket, a variety of indicator options, head-up or inverted mounting options, and side-in / end-out “L-Head” port orientation or a sub-plate manifold mount option make the PFH62 the ideal choice for heavy duty hydraulic filtration.

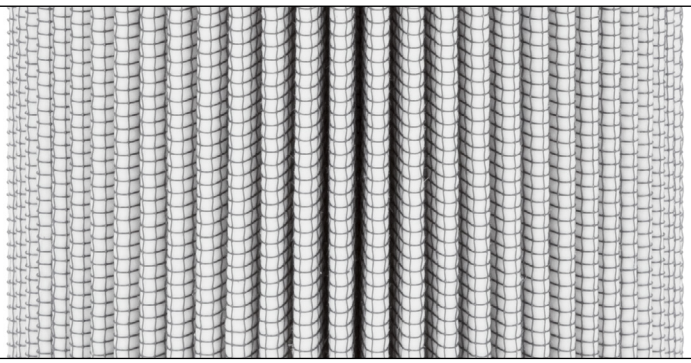


Minimize the mess.

The top loading housing on PFH62 filter assemblies provide easy and clean access when servicing or changing the element. Accessing the element is as simple as removing the housing cover, meaning you have no heavy bowl to lift and can get back in operation quicker than ever.

Extend the life of your element.

Unique internal flow paths provide low resistance to flow, resulting in a low housing pressure drop. Hy-Pro’s advanced filter media delivers lower operating ISO Codes to eliminate internally generated contamination meaning your filter will have an incredibly long service life to protect your sensitive components better than ever.

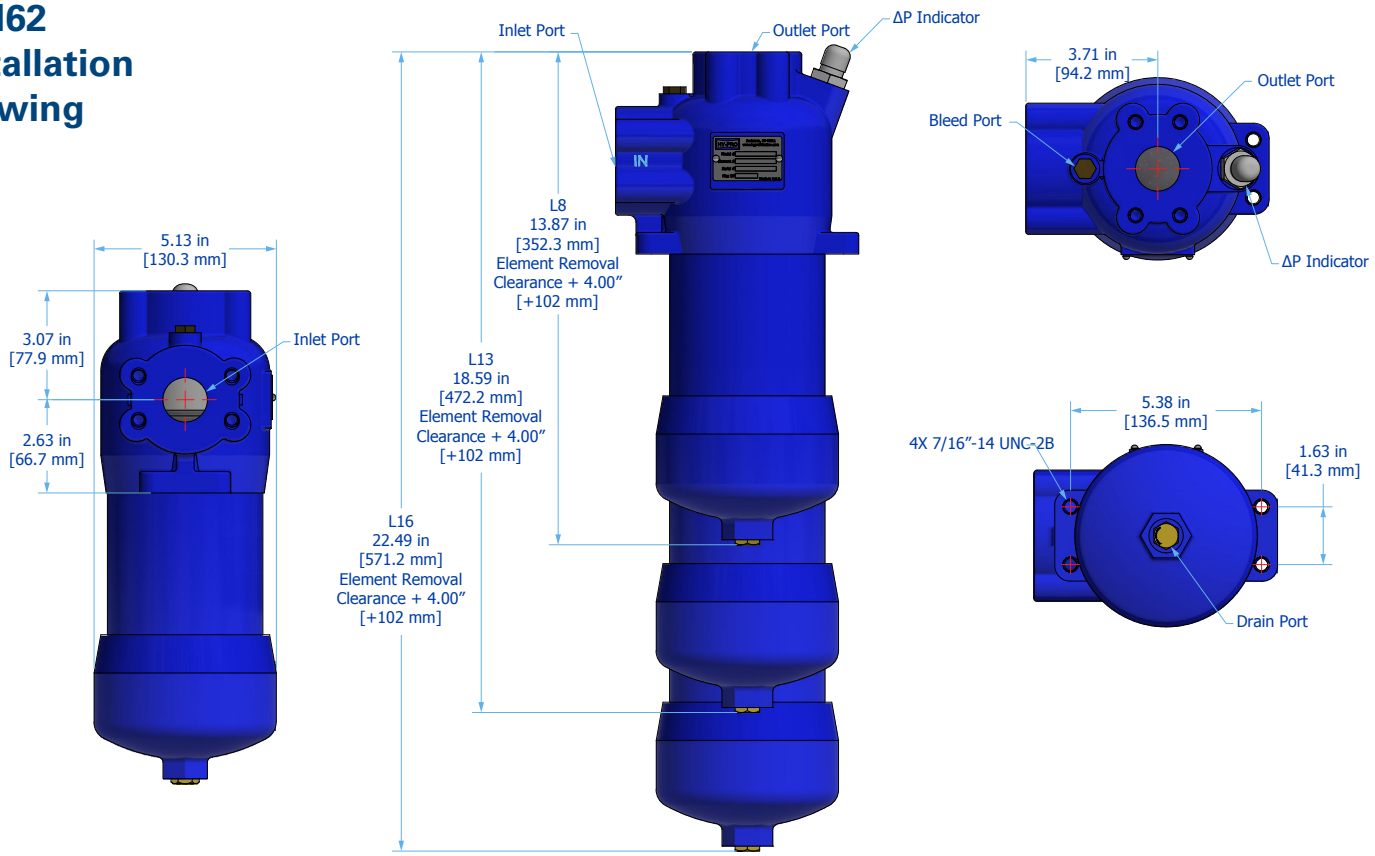


The ideal choice for hydraulics.

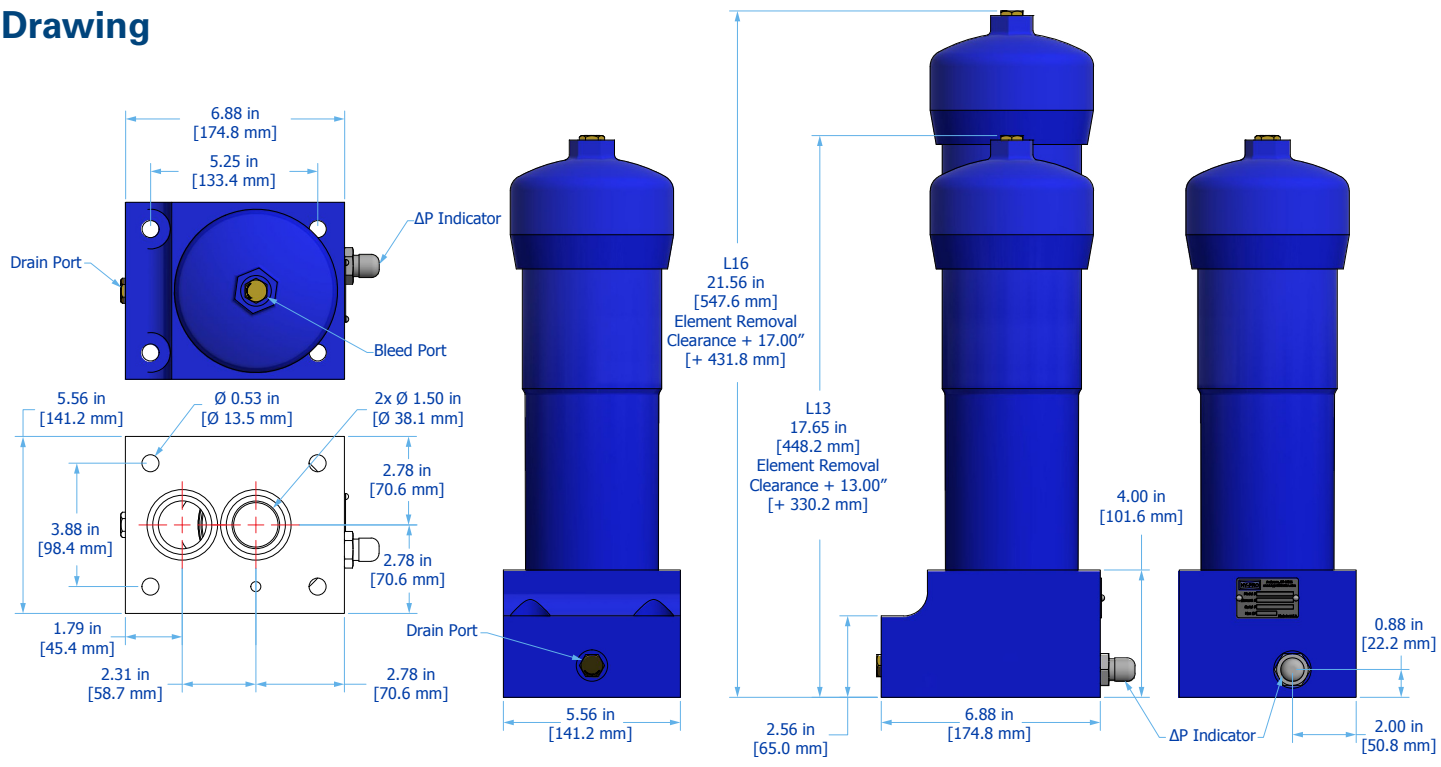
Use the PFH62 as the main high pressure filter(s) in a hydraulic system or upstream of sensitive components as a pilot filter to protect your valves and actuators. The PFH series is engineered to provide lower operating ISO Codes than what is required for compliance with hydraulic component manufacturers’ warranties.

PFH62 Installation Drawings

PFH62 Installation Drawing



PFH62M Installation Drawing



PFH62 Sizing Guide

Filter Sizing[1]

Filter assembly clean element ΔP after actual viscosity correction should not exceed 10% of filter assembly bypass setting. For applications with extreme cold start condition contact Hy-Pro for sizing recommendations.

ΔP Factors[1]

Element Type	Length	Units	Media 1M	3M	6M	10M	16M	25M	**W
60	L8	psid/gpm	0.378	0.319	0.247	0.221	0.217	0.209	0.038
		bard/lpm	0.007	0.006	0.004	0.004	0.004	0.004	0.001
	L13	psid/gpm	0.237	0.200	0.155	0.139	0.136	0.131	0.024
		bard/lpm	0.004	0.004	0.003	0.003	0.002	0.002	0.000
	L16	psid/gpm	0.181	0.153	0.118	0.106	0.104	0.100	0.018
		bard/lpm	0.003	0.003	0.002	0.002	0.002	0.002	0.000
61	L8	psid/gpm	0.488	0.412	0.319	0.286	0.280	0.270	0.049
		bard/lpm	0.009	0.008	0.006	0.005	0.005	0.005	0.001
	L13	psid/gpm	0.307	0.259	0.201	0.180	0.176	0.170	0.031
		bard/lpm	0.006	0.005	0.004	0.003	0.003	0.003	0.001
	L16	psid/gpm	0.161	0.136	0.105	0.095	0.093	0.089	0.016
		bard/lpm	0.003	0.002	0.002	0.002	0.002	0.002	0.000
964	L8	psid/gpm	0.409	0.345	0.268	0.240	0.235	0.226	0.041
		bard/lpm	0.007	0.006	0.005	0.004	0.004	0.004	0.001
	L13	psid/gpm	0.248	0.209	0.162	0.145	0.142	0.137	0.025
		bard/lpm	0.005	0.004	0.003	0.003	0.003	0.002	0.000
	L16	psid/gpm	0.186	0.157	0.122	0.109	0.107	0.103	0.019
		bard/lpm	0.003	0.003	0.002	0.002	0.002	0.002	0.000

[1]Max flow rates and ΔP factors assume β = 150 SUS, 32 cSt. See filter assembly sizing guideline for viscosity conversion formula.

PFH62 Specifications

Dimensions	See Installation Drawings for model specific dimensions.		
Weight	**PFH62 L8** 33 lbs(15 kg)	**PFH62 L13** 42 lbs(19 kg)	**PFH62 L16** 48 lbs(21.8 kg)
Operating Temperature	-20°F to 250°F (-29°C to 121°C)		
Operating Pressure	6,600 psi (455 bar) max		
Burst Pressure	19,900 psi (1,372 bar) max		
Flow Fatigue Rating	2000 cycles at 0-300 bar per NFPA T3.10.5.1, R2 2000		
ΔP Indicator Trigger	73 psid (5 bard)		
Element Collapse Rating	**HP60** 290 psid (20 bard) max	**HP61** 3000 psid (206.8 bard) max	**HP964** 150 psid (20 bard) max
Integral Bypass Setting	90 psid (6.2 bard)		
Materials of Construction	**Head + Cover** Ductile iron	**Bowl** Seamless steel tubing	**Exterior Coating** Powder coated

Media Description	**M** G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta x_{[C]} \geq 4000$	**A** G8 Dualglass high performance media combined with water removal scrim. $\beta x_{[C]} \geq 4000$	**SF** Dynafuzz stainless steel fiber media $\beta x_{[C]} \geq 4000$	**W** Stainless steel wire mesh media $\beta x_{[C]} \geq 2$

Replacement Elements

To determine replacement elements, use the selected codes from the following page below:

Filter Element Part Number
HP[Element Type Code] L [Length Code] – [Media Selection Code][Seal Code]

Example
HP61L8-2MB

Fluid Compatibility

Biodegradable and mineral based fluids. For high water based or specified synthetics consult factory.

PFH62 Part Number Builder

PFH62 [ ] [ ] [ ] [ ] [ ] [ ] - [ ] - [ ] [ ]

Connection | Element Type | Collapse | Length | Bypass | ΔP Indicator | Special Options | Media | Seal

Connection

	Port Option	Max Flow Rate
C20	1.25″ Code 62 flange (6000 psi)	100 gpm (379 lpm)
F20	1.25″ Code 61 flange	100 gpm (379 lpm)
F24	1.5″ Code 61 flange	150 gpm (568 lpm)
G20	1.25″ G thread (BSPP)	100 gpm (379 lpm)
M24	Manifold mount (see installation detail)	150 gpm (568 lpm)
S16	SAE - 16 Thread	100 gpm (379 lpm)
S20	1.25″ SAE	125 gpm (473 lpm)
S24	1.5″ SAE	

Element Type

60[1]	290 psid (20 bard) cored filter element (HF3 compatible)
61	3000 psid (207 bard) cored filter element (HF3 compatible)
964	Coreless filter element

Element Length

8	8″ (20 cm) nominal element
13	13″ (33 cm) nominal element
16	16″ (40 cm) nominal element

Bypass

6	90 psid (6.2 bard) bypass
X[2]	No bypass

ΔP Indicator

	Indicator Options	Thermal Lockout	Surge Control	Reset
D	Visual / Electrical (DIN 43650)	No	No	Auto
S	Visual / Electrical (DIN 43650)	Yes	Yes	Manual
T	Visual / Electrical (DIN 43650)	Yes	No	Manual
V	Visual	No	No	Auto
X	No indicator (port plugged)	–	–	–
Y	Visual	Yes	Yes	Manual

Special Options

C	Reverse flow check valve
M2	Mounting bracket
M3	3/4″ manifold bolts (Requires connection M24)

Media Selection

G8 Dualglass

1M	$\beta 3_{[C]} \geq 4000$
2M[3]	$\beta 4_{[C]} \geq 4000$
3M[4]	$\beta 4_{[C]} \geq 4000$
6M	$\beta 6_{[C]} \geq 4000$
12M[4]	$\beta 11_{[C]} \geq 4000$
15M[3]	$\beta 11_{[C]} \geq 4000$
16M	$\beta 16_{[C]} \geq 4000$
25M	$\beta 22_{[C]} \geq 4000$

G8 Dualglass + water removal

3A[4]	$\beta 4_{[C]} \geq 4000$
6A[4]	$\beta 6_{[C]} \geq 4000$
12A[4]	$\beta 11_{[C]} \geq 4000$
25A[4]	$\beta 22_{[C]} \geq 4000$

Dynafuzz stainless fiber

3SF	$\beta 4_{[C]} \geq 4000$
6SF	$\beta 6_{[C]} \geq 4000$
10SF	$\beta 11_{[C]} \geq 4000$
25SF	$\beta 22_{[C]} \geq 4000$

Stainless wire mesh

10W	10µ nominal
25W	25µ nominal
40W	40µ nominal
74W	74µ nominal
149W	149µ nominal

Seals

B	Nitrile (Buna)
V	Fluorocarbon
E-WS	EPR seals + stainless steel support mesh

[1]Requires Bypass option 6 selected.
[2]Only available when paired with "H" high collapse element.
[3]Compatible only with Element Type "61", HP61L filter elements.
[4]Compatible only with Element Types "60", HP60L filter elements.

For all up to date option details and compatibilites, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.
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