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.

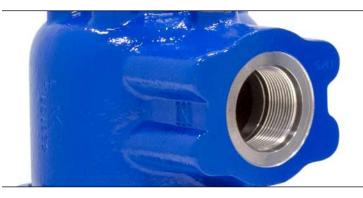
Max Operating Pressure: 6,600 psi (455 bar)



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.



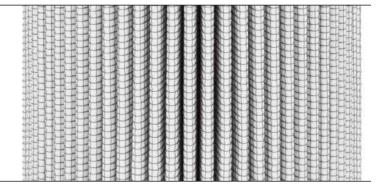


Minimize the mess.

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.



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.

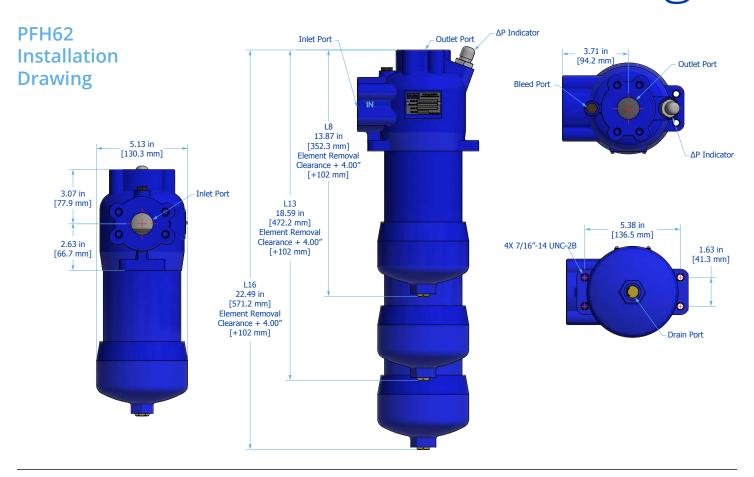


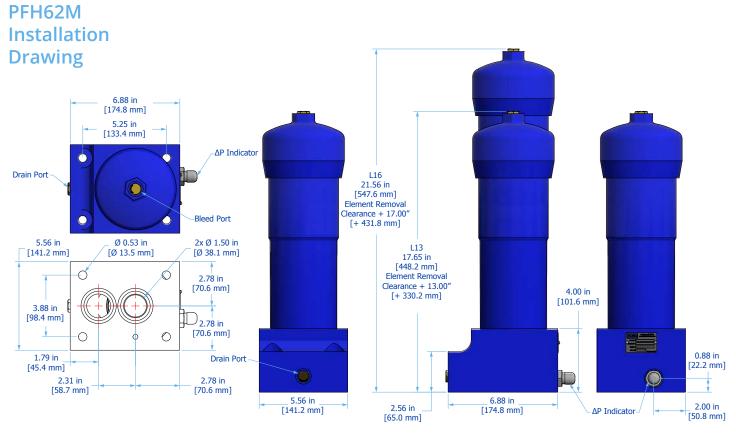


The ideal choice for hydraulics.

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 Sizing Guidelines

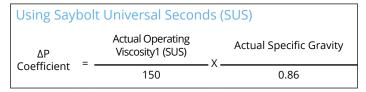
Filter Assembly Sizing Guidelines

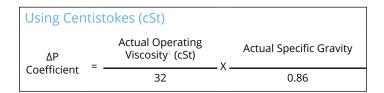
Effective filter sizing requires consideration of flow rate, viscosity (operating and cold start), fluid type and degree of filtration. When properly sized, bypass during cold start can be avoided/minimized and optimum element efficiency and life achieved. The filter assembly differential pressure values provided for sizing differ for each media code, and assume 32 cSt (150 SUS) viscosity and 0.86 fluid specific gravity. Use the following steps to calculate clean element assembly pressure drop.

Sizing recommendations to optimize performance and permit future flexibility

- To avoid or minimize bypass during cold start the actual assembly clean ΔP calculation should be repeated for start-up conditions if cold starts are frequent.
- Actual assembly clean ΔP should not exceed 10% of bypass ΔP gauge/indicator set point at normal operating viscosity.
- If suitable assembly size is approaching the upper limit of the recommended flow rate at the desired degree of filtration consider increasing the assembly to the next larger size if a finer degree of filtration might be preferred in the future. This practice allows the future flexibility to enhance fluid cleanliness without compromising clean ΔP or filter element life.
- Once a suitable filter assembly size is determined consider increasing the assembly to the next larger size to optimize filter element life and avoid bypass during cold start.
- When using water glycol or other specified synthetics, we recommend increasing the filter assembly by 1~2 sizes.

Step 1: Calculate ΔP coefficient for actual viscosity





Step 2: Calculate actual clean filter assembly ΔP at both operating and cold start viscosity

Actual Assembly = Clean ΔP	Flow Rate	Х	ΔP Coefficient (from Step 1)	Х	Assembly ΔP Factor (from sizing table)
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PFH62 Sizing Guide

Filter Sizing¹

Filter assembly clean element ΔP after actual viscosity correction should not exceed 10% of filter assembly bypass setting. See page 22 for filter assembly sizing guidelines & examples. For applications with extreme cold start condition contact Hy-Pro for sizing recommendations.

ΔP Factors¹

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

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



PFH62 Specifications

Dimensions	See Installation Drawings on	page 231 for model specific dimensi	ons.			
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) r	HP964 nax 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. $\beta x_{[c]} \ge 4000$	A G8 Dualglass high performance Dyn media combined with water removal scrim. $\beta x_{[c]} \ge 4000$	mafuzz stainless steel stainless steel wire media $\beta x_{[c]} \ge 4000$ mesh media $\beta x_{[c]} \ge 4000$			
Replacement Elements	Filter Element Part Number		ed codes from the following page below Example eal Code] HP61L8-2MB	ow:		
Fluid Compatibility	Biodegradable and mineral	based fluids. For high water based or	specified synthetics consult factory.			



PFH62 Part Number Builder

PFH62						_						
Con	nection	Element Type	Collapse	Length	Bypass	ΔP Indicator	Special Options	Media	Seal	_		
Connection	C20 F20 F24 G20 M24 S20	Option Max Flow Rate 1.25" Code 62 flange (6000 psi) 100 gpm (379 lpm) 1.25" Code 61 flange 100 gpm (379 lpm) 1.5" Code 61 flange 150 gpm (568 lpm) 1.25" G thread (BSPP) 100 gpm (379 lpm) Manifold mount (see installation detail) 150 gpm (568 lpm) 1.25" SAE 100 gpm (379 lpm) 1.5" SAE 125 gpm (473 lpm)										
Element Type	60¹ 61 964	3000 psid (207	290 psid (20 bard) cored filter element (HF3 compatible) 3000 psid (207 bard) cored filter element (HF3 compatible) Coreless filter element									
Element Length	8 13 16	13" (33 cm) no	8" (20 cm) nominal element 13" (33 cm) nominal element 16" (40 cm) nominal element									
Bypass	6 X ²	90 psid (6.2 ba No bypass	90 psid (6.2 bard) bypass No bypass									
ΔP Indicator	Indi D S V X	Cator Option Visual / Electri Visual / Electri Visual No indicator (Visual	cal (DIN 436 cal (DIN 436	50)	Therr No Yes No - Yes	nal Lockout	Surge Cor No Yes No - Yes	ntrol	Reset Auto Manual Auto - Manual			
Special Options	C M2 M3	Reverse flow of Mounting brad 3/4" manifold	cket	res connectio			163		iviaridai			
Media Selection	1M 2M ³ 3M ⁴ 6M 12M 15M 16M	Dualglass $β3_{[c]} \ge 4000$ $β4_{[c]} \ge 4000$ $β4_{[c]} \ge 4000$ $β6_{[c]} \ge 4000$ $β11_{[c]} \ge 4000$ $β11_{[c]} \ge 4000$ $β16_{[c]} \ge 4000$ $β16_{[c]} \ge 4000$ $β22_{[c]} \ge 4000$				G8 Dualgla 3A ⁴ β4 _[c] ≥ 6A ⁴ β6 _[c] ≥ 12A ⁴ β11 _[c] ≥ 25A ⁴ β22 _[c] ≥	4000	moval				
	3SF 6SF 10SF	$β4_{[C]} \ge 4000$ $β6_{[C]} \ge 4000$ $β11_{[C]} \ge 4000$ $β22_{[C]} \ge 4000$	fiber			Stainless W 10W 10µ no 25W 25µ no 40W 40µ no 74W 74µ no 149W 149µ n	ominal ominal ominal ominal					
Seals	B V E-WS	Nitrile (Buna Fluorocarbo EPR seals + s	n	el support mo	esh							

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



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



Filtration starts with the filter.

Lower ISO Codes: Lower Total Cost of Ownership Hy-Pro filter elements deliver lower operating ISO Codes so you know your fluids are always clean, meaning lower total cost of ownership and reducing element consumption, downtime, repairs, and efficiency losses.

DFE Rated Filter Elements DFE is Hy-Pro's proprietary testing process which extends ISO 16889 Multi Pass testing to include real world, dynamic conditions and ensures that our filter elements excel in your most demanding hydraulic and lube applications.

Upgrade Your Filtration Keeping fluids clean results in big reliability gains and upgrading to Hy-Pro filter elements is the first step to clean oil and improved efficiency.

Advanced Media Options DFE glass media maintaining efficiency to $\beta 3_{[c]} > 4000$, Dualglass + water removal media to remove free and emulsified water, stainless wire mesh for coarse filtration applications, and Dynafuzz stainless fiber media for EHC and aerospace applications.

Delivery in days, not weeks From a massive inventory of ready-to-ship filter elements to flexible manufacturing processes, Hy-Pro is equipped for incredibly fast response time to ensure you get your filter elements and protect your uptime.

More than just filtration Purchasing Hy-Pro filter elements means you not only get the best filters, you also get the unrivaled support, training, knowledge and expertise of the Hy-Pro team working shoulder-to-shoulder with you to eliminate fluid contamination.



Want to find out more? Get in touch.

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