



**PERFECT  
FILTRATION**  
SYSTEMS

**HYDRAULIC FLUID THAT MEETS AND EXCEEDS OEM MANUFACTURERS FLUID CLEANLINESS STANDARDS**

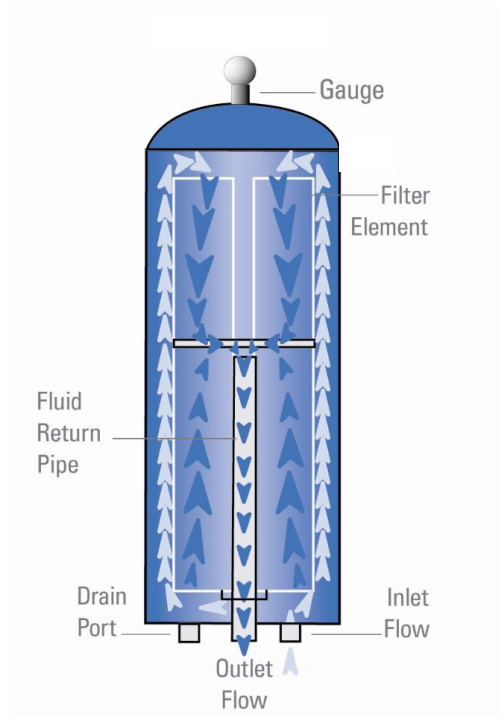
## ULTIMATE HYDRAULIC FILTRATION SYSTEMS

The 1 micron continuous flow by-pass filtration systems are designed to filter a small percentage of the hydraulic fluid at a time through dense depth-type filter media. You can expect cleaner than new fluid after 200 hours of filtration, less component wear, longer fluid life, valve life, pump life, and machine life.

US Patent #5271850

### PRODUCT FEATURES & BENEFITS:

- \* Removes 99.9% of the water
- \* Removes the majority of the solids
- \* 1 micron depth-type filter element
- \* Long depth-type filter life
- \* Hydraulic fluid will last for years
- \* Patented proven product
- \* Quick return on your investment
- \* Greatly reduces component wear
- \* Longer valve, pump, and machine life
- \* No more phantom system problems
- \* Higher system performance
- \* Less downtime and more production
- \* Cooler running systems
- \* Replace the PFS filter only twice a year
- \* Easy installation and filter servicing
- \* Cleaner than new fluid 100% of the time
- \* Recommended by some OEM's
- \* Installed on thousands of systems
- \* Lower maintenance and operating costs
- \* Meets OEM & NASA cleanliness standards
- \* Continuous filtration during operation
- \* Will not affect OEM warranty



Model U-1000H-PRV keeping the hydraulic fluid ultra clean and water free 100% of the time. This customer has not changed fluid in over five years and has not had a failure due to dirty fluid.

**GREAT PRODUCT!**

### How does the by-pass system work?

The patented 1 micron by-pass filtration systems are designed to filter the fluid at low volume, low pressure through a dense depth-type filter element. We get the pressure from an existing pressure source typically a cooler line, pressurized fluid return line, or a main pressure line. We use special valves to control the fluid pressure and fluid volume through the filter element. After the fluid is filtered it is returned back into the tank ultra clean and water free.

### What does the 1 micron system remove?

The systems take out 99.9% of the water and remove solid particles down to 1 micron in size. The filters use both absorption and direct interception to trap and remove the water and solids. The depth-type filters are a 1 micron nominal or 3 micron absolute and depth-type filters are known to be the most efficient filtration method available today.

### What are the industry cleanliness standards for hydraulic fluid ?

We have spoke to the leading fluid analysis testing labs, filter testing labs, engineering colleges, and OEM's about fluid cleanliness and most of them agree on the published industry standards for hydraulic components. See the chart on the back side to see what types of systems you are operating and test your hydraulic fluid to establish a cleanliness baseline to see how dirty or how clean your fluid is. All of these labs, colleges and OEM's agree that ultra clean water free fluid will greatly extend the life of the fluid and hydraulic components. Our filter system will meet and exceed these industry standards.

### Why do I need better filtration?

Because your current 5 to 30 micron pleated paper filters are not efficient enough to clean the fluid effectively. They are only catching the large solid particles and have virtually no protection against water.

FACT: The #1 cause of hydraulic system component wear and failure is due to water and solid particles smaller than 7 micron in size. Old pleated paper filters will not provide the protection your expensive tight tolerance components require.



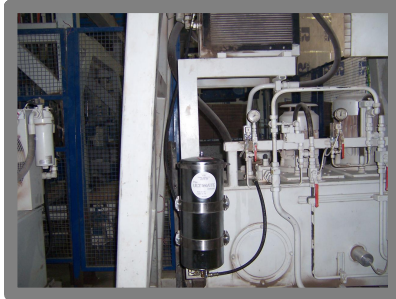
**Vital Protection for Machines Since 1981**



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The by-pass hydraulic filtration systems can be installed on any mobile equipment. Over the past 24 years of experience we have installed our systems on many different types of machines and for many different industries from: concrete pumping, construction, mining, refuse, and scrap recycling, Our customers are replacing the PFS depth-type filter every six months and are enjoying ultra clean water free fluid 100% of the time.



The Ultimate systems can be installed on any stationary machine as well as mobile equipment. We have extensive experience in many manufacturing industries including: can manufacturing, injection molding, pulp and paper, concrete block, concrete pavers, steel fabrication, and many more. These high quality filtration systems are protecting our clients expensive tight tolerance components against water and wear. **Our systems are recommended by some OEM manufacturers consult PFS.**

MODEL NUMBER	ELEMENT	RESERVOIR SIZE	MAKE UP OIL REQUIRED	SYSTEM DIMENSIONS
H-61-PRV	0699	1-20 GALLONS	1 QUART	4 1/2" X 8"
U-150H-PRV	7132	1-40 GALLONS	4 QUARTS	8" X 12"
U-500H-PRV	7332	40-100 GALLONS	12 QUARTS	10 3/4" X 14 1/4"
U-1000H-PRV	7534	100-300 GALLONS	20 QUARTS	10 3/4" X 24"
U-2-1000H-PRV	(2)-7534	300-600 GALLONS	40 QUARTS	24" X 24"
U-3-1000H-PRV	(3)-7534	600-1,000 GALLONS	60 QUARTS	36" X 24"

**Guaranteed ultra clean water free fluid 100% of the time.**

**Fluid Cleanliness Required for Typical Hydraulic Components**

Components	ISO Code
Servo control valves	16/14/11
Proportional valves	17/15/12
Vane and piston pumps/motors	18/16/13
Directional & pressure control valves	18/16/13
Gear pumps/motors	19/17/14
Flow control valves, cylinders	20/18/15
New unused fluid	20/18/15



PFS patented depth-type filter elements will protect your pumps, actuators, cylinders, servo valves, proportional valves, directional valves, and other tight tolerance components against water and wear.

**Start using state of the art filter technology today!**



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