

# HYDRAULIC FILTRATION CARTS

Flow Products Hydraulic Filtration Carts are the ideal way to prefilter and transfer fluids into reservoirs or to clean up existing systems.

Fluid should always be filtered before being put into use. New fluid is not necessarily clean. Most new fluids (right out of the drum) are unfit for use due to high initial contamination levels.

Water is removed by installing water absorbing elements in the outlet filter. Water absorbing elements are made from a polymer which has a very high affinity for free water. Once water comes into contact with this material, it is removed from the system.

Flow Products Hydraulic Filtration Carts use two high capacity Syntec synthetic filters for long element life and better system protection. The first stage (inlet) filter captures larger particles, while the second stage (outlet) filter captures finer particles or removes water. A rugged industrial quality gear pump gets the job done fast.

Using a Flow Products Hydraulic Filtration Cart is the most economical way to protect your system from the harm that can be caused by contamination.

## APPLICATIONS

- Filtering new fluid before putting into service
- Transferring fluid from drums or storage tanks to system reservoirs
- Conditioning fluid that is already in use
- Complimenting existing system filtration
- Removing free and emulsified water from a system
- For use with fluids such as hydraulic, gear and lube oils

## FEATURES

Two filters instead of one w/ 2.5 times increased dirt holding capacity

Wide variety of particulate elements available

Water absorbing/water removal elements available

Heavy duty frame

Lightweight and portable

Multiple flow rates available

11 ft. (3.3 m) hose and wand assemblies included

## ADVANTAGES

Pump protection and long element life

Capable of getting a fluid to a desired cleanliness level

Removes "free water" from a system

Rugged and durable

Easy to move from place-to-place

Enables use in low or high viscosity applications

Additional hardware not necessary



# CUSTOMER SERVICE & TECHNICAL SUPPORT

Our dedication to market leading service levels is always evolving. We work to meet all your requirements and strive to provide additional services that enhance the purchasing experience. We offer the following services:

- Same day quote turnaround on standard products
- Customer dedicated inventory
- Vendor managed inventory
- Electronic Data Interchange (EDI)
- Custom labeling and packaging
- IFPS Certified fluid power specialists
- Complete fluid system design, assembly, and test capabilities
- System start-up and commissioning
- System troubleshooting and diagnostics
- Component & systems repair service
- Customized technical training programs

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# HYDRAULIC FILTRATION CARTS

## TYPICAL FLUID CLEANLINESS LEVEL REQUIREMENTS:

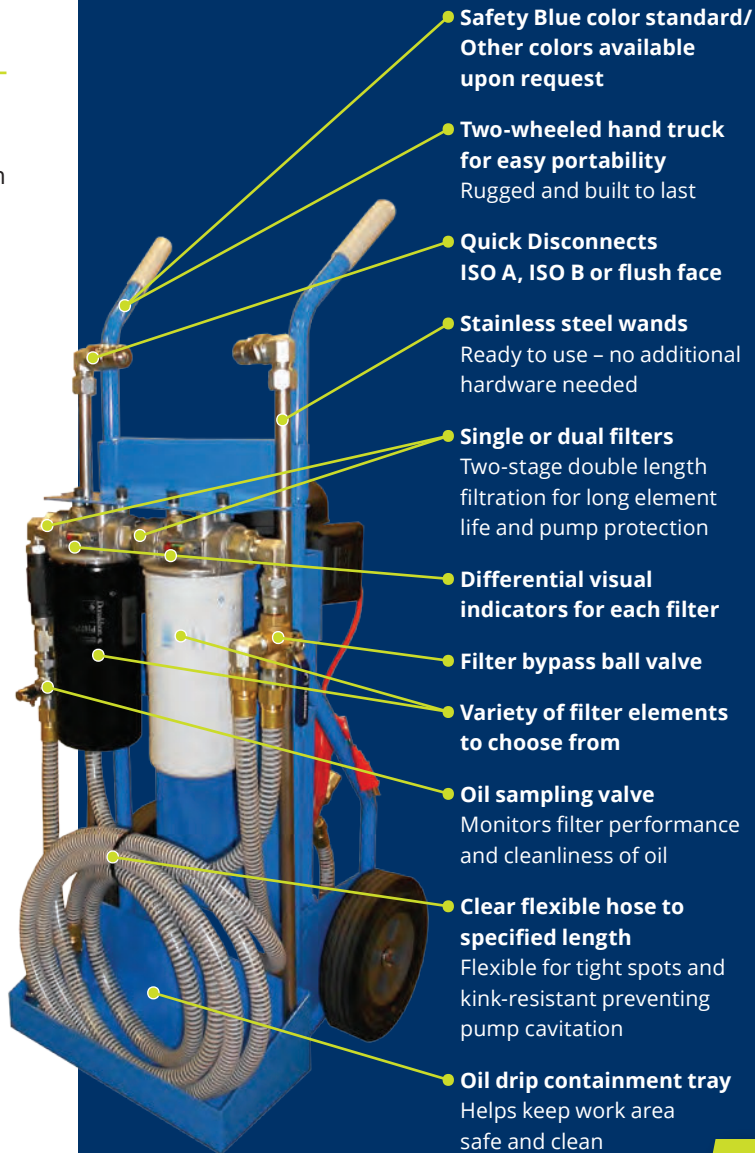
Many manufacturers of hydraulic components have established fluid cleanliness levels for their components. Using a portable filter cart can be an effective way to reach and maintain these levels.

COMPONENT	ISO CLEANLINESS LEVEL
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 fluid	20/18/15

## FILTER CART PERFORMANCE:

Fluid cleanliness levels are a function of initial contamination levels, contamination ingress rates, reservoir size and filter element efficiency. Approximate time requirements to achieve certain cleanliness levels are listed below.

Reservoir Capacity (Gallons)	Time Required (Hours)	Projected Cleanliness Level (ISO)
50	0.5	20/18/15
50	1.0	17/15/12
50	2.5	16/14/11
100	1.5	18/16/13
100	2.5	17/15/12
100	4.0	16/14/11
200	2.5	19/17/14
200	3.5	18/16/13
200	5.0	17/15/12



## FILTRATION CART CUSTOM OPTIONS:

Customize your Flow Products Filtration Cart with a ½ HP, ¾ HP or 1 HP electric motor, 2 through 12 GPM industrial quality gear pumps, and a wide range of filter elements. You can even customize your flexible hose and power cord lengths, as well as the cart color to fit your specific needs. **Visit FlowProd.com or call 773-528-2000 to discuss all available options!**

## FILTRATION CART FEATURES:

- **½ HP to 1 HP single phase motor, 110/220 VAC**  
Industrial brand name mounted on back for better balance
- **On/Off switch**
- **25-Foot power cord**
- **2 to 12 GPM gear pump**  
Industrial quality  
Quiet operation  
Dependable, long life
- **Bypass relief valve**  
Protects against over pressurizing (set at 65 psi)
- **Suction strainer**  
Protects pump
- **10-inch solid rubber wheels**  
Will never go flat

## GENERAL SPECIFICATIONS:

### Recommended Fluid Viscosity

50 – 275 SUS (20 – 120 cSt)  
0.85 specific gravity

### Maximum Fluid Viscosity

1350 SUS (600 cSt)  
0.85 specific gravity

### Visual Indicator (outlet filter)

Visual differential type  
2-band (clean, change)

### Filter Bypass Valve Settings (Integral to Element)

First stage – 25 psid (1.7 bar)  
Second stage – 25 psid (1.7 bar)

### Operating Temperature

-10°F to +150°F (-23°C to +66°C)

### Electrical Service Required

½ hp, 110/220 volts, 60/50 Hz, single phase, 8/4 amps  
¾ hp, 110/220 volts, 60/50 Hz, single phase, 10/5 amps  
1 hp, 110/220 volts, 60/50 Hz, single phase, 14/7 amps

### Electrical Motor

½ hp @ 1725 rpm, TEFC  
¾ hp @ 1725 rpm, TEFC  
1 hp @ 1725 rpm, TEFC  
Thermal overload protection

### Construction

Cart frame – Steel  
Filter head – Aluminum  
Hoses – PVC (Standard)  
EPDM (for phosphate ester fluids)  
Wands – Stainless Steel tube

### Weight

150 lbs. (68 kg.)

### Dimensions

Height: 47 in. (119 cm) | Width: 19 in. (48 cm)  
Depth: 16 in. (40 cm)

**CALL TODAY AND LET US HELP YOU  
DESIGN THE RIGHT FILTRATION CART  
FOR YOUR APPLICATION**

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