SEPAR FILTER

Diesel Fuel Filtration

Bio-Diesel Compatible

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Contents

Separ of the Americas, LLC
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Separ 2000

Water Separator and Fuel Filter

Features

A water and fuel separator that is designed to accommodate newer and more demanding diesel engines. In industrial, marine, and agriculture use, the Separ 2000 series protects your engine from water and sludge.

Single and duplex systems are available from 80 GPH to 2060 GPH. The duplex switch assemblies allow element replacement while the engine is running.

Benefits

- Small physical Size
- High flow rate
- Low Restriction
- Long life filter elements
- Simple installation
- 5-Stage filtration
- Backflushable

Applications

- Automotive industry - trucks, buses, mobile cranes, municipality vehicles etc.
- Construction equipment, compressor sets, agricultural equipment, fork lift trucks etc.
- Marine propulsion
- Stationary engines - stand by generators, welding and pumping installations etc.
- Mining applications
- Custom versions available.
- U.S. Navy
- U.S. Coast Guard

What Separ is made of ?

The Separ 2000 brand of filters are manufactured from high quality non-corroding aluminum alloy casting, heavy polycarbonate or metal bowls and stainless steel hardware.

Heated Filter Available

The Separ 2000 series is available with a thermostatically controlled electric fuel heating system that improves start up of diesel engines in cold weather conditions. It allows for cold weather operation.

Class Certificates

- American Bureau of Shipping Certificate
- RINA
- Bureau Veritas Type Approval Certificate
- Lloyd Type Approval Certificate
- Rheinisch-Westfälischer TÜV
- Kraftfahrt-Bundesamt Flensburg
- German Technical Department for Army Ship and Marine Weapons
- Germanischer Lloyd Type Approval Certificate

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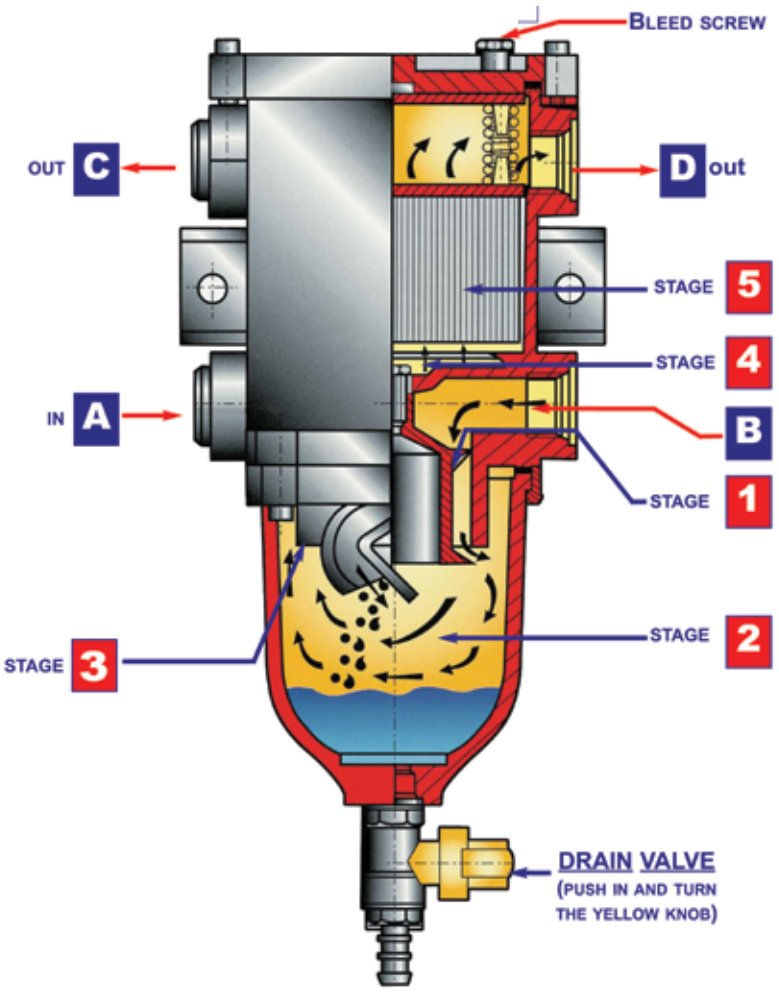
Water Separator and Fuel Filter

The separation and filtration process takes place according to a new, unique and patented concept, which is applied throughout all of the range. The Separ 2000 series is outstanding due its small physical size in relation to the effective flow rate. The Separ 2000 should be installed on the suction side of the fuel system, between the fuel feed tank and the engine mounted fuel lift pump. Fuel enters the filter through either port A or B depending on which is more convenient for installation, and using the plug provided to seal off the unused port. Fuel exits the filter through either port C or D.

Functions of the Separ 2000

1. Fuel enters (A or B port) where the interior vane system gives circular motion to the fuel.
2. Fuel still in circular motion reaches the bowl section where water and heavier particles are forced to settle on the bottom of the bowl.
3. Here, the fuel passes the second vane system, changing rotation, which separates smaller size water droplets and finer particulates.
4. Just below the filter element, the fuel passage widens considerably, thus reducing its speed and allowing even more contaminants to fall down in the bowl by gravity.
5. The final filtration of the remaining contaminants is accomplished by the long life filter element. The clean fuel leaves the filter via ports C or D on either side of the filter.



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SEPAR FILTER

Separ 2000

Quick Reference Chart

2000/5 = 1.31 GPM or 78.6 GPH	2000/5, 2000/5/50, 2000/10, 2000/18 = Standard clear bowl	G = Gauge
2000/5/50 = 1.31 GPM or 78.6 GPH	2000/40, 2000/130 = Standard metal bowl	M = Metal bowl
2000/10 = 2.63 GPM or 157.8 GPH	U = Switchable filter	MK = Metal bowl w/ contacts
2000/18 = 4.25 GPM or 255 GPH	D = Clear bowl w/ metal heat deflector (RINA version)	S = Potential-free probe for water level indication
2000/40 = 10.5 GPM or 630 GPH	K = Clear bowl w/ contacts for water level indication	
2000/130 = 34 GPM or 2040 GPH	KD = Clear bowl, w/ metal heat deflector and contacts	H = Heated filter 12V or 24V

AVAILABLE VERSIONS

SINGLE UNITS	SWITCHABLE UNITS	DESCRIPTION	US Gal/ Min	SINGLE UNITS Thread In and Outlet	SWITCH. UNITS Thread In and Outlet	WEIGHT Single/ Switch.
SWK-2000/5	SWK-2000/5/U	Clear bowl	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	3 / 11 lbs
SWK-2000/5/50	SWK-2000/5/50/U	Clear bowl	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	3.5 / 12 lbs
SWK-2000/5/50/K	SWK-2000/5/50/UK	Clear bowl, contacts	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	3.5 / 12 lbs
SWK-2000/5/50/D	SWK-2000/5/50/UD	Clear bowl, heat shield	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	4 / 13 lbs
SWK-2000/5/50/KD	SWK-2000/5/50/UKD	Clear bowl, contacts, heat shield	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	4 / 13 lbs
SWK-2000/5/50/M	SWK-2000/5/50/UM	Metal bowl	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	4.5 / 13 lbs
SWK-2000/5/50/MK	SWK-2000/5/50/UMK	Metal bowl, contacts	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	4.5 / 13 lbs
SWK-2000/5/50/H		Clear bowl, heated filter	1.31	3/4 x 16 OR Boss	12 mm Pipe Ø	5.5 / 16 lbs
SWK-2000/10	SWK-2000/10/U	Clear bowl	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	6 / 18.5 lbs
SWK-2000/10/K	SWK-2000/10/UK	Clear bowl, contacts	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	6 / 18.5 lbs
SWK-2000/10/D	SWK-2000/10/UD	Clear bowl, heat shield	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	6.5 / 19.5 lbs
SWK-2000/10/KD	SWK-2000/10/UKD	Clear bowl,contacts,heat shield	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	6.5 / 19.5lbs
SWK-2000/10/M	SWK-2000/10/UM	Metal bowl	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	7 / 21 lbs
SWK-2000/10/MK	SWK-2000/10/UMK	Metal bowl, contacts	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	7 / 21 lbs
SWK-2000/10/H		Clear bowl, heated filter	2.63	7/8 x 14 OR Boss	15 mm Pipe Ø	7 / 21 lbs
SWK-2000/18	SWK-2000/18/U	Clear bowl	4.25	1-1/16 x 12 OR Boss	22 mm Pipe Ø	10.5 / 34.5 lbs
SWK-2000/18/K	SWK-2000/18/UK	Clear bowl, contacts	4.25	1-1/16 x 12 OR Boss	22 mm Pipe Ø	10.5 / 34.5 lbs
SWK-2000/18/D	SWK-2000/18/UD	Clear bowl, heat shield	4.25	1-1/16 x 12 OR Boss	22 mm Pipe Ø	11 / 35.5 lbs
SWK-2000/18/KD	SWK-2000/18/UKD	Clear bowl contacts, heat shield	4.25	1-1/16 x 12 OR Boss	22 mm Pipe Ø	11 / 35.5 lbs
SWK-2000/18/M	SWK-2000/18/UM	Metal bowl	4.25	1-1/16 x 12 OR Boss	22 mm Pipe Ø	11.5 / 36.5 lbs
SWK-2000/18/MK	SWK-2000/18/UMK	Metal bowl, contacts	4.25	1-1/16 x 12 OR Boss	22 mm Pipe Ø	11.5 / 36.5 lbs
SWK-2000/40/M	SWK-2000/40/UM	Metal bowl	10.5	1-5/16 x 12 OR Boss	35 mm Pipe Ø	24.5 / 68 lbs
SWK-2000/40/MK	SWK-2000/40/UMK	Metal bowl, contacts	10.5	1-5/16 x 12 OR Boss	35 mm Pipe Ø	24.5 / 68 lbs
SWK-2000/40/MS	SWK-2000/40/UMS	Metal bowl, probe	10.5	1-5/16 x 12 OR Boss	35 mm Pipe Ø	24.5 / 68 lbs
SWK-2000/130/MK	SWK-2000/130/UMK	Metal bowl, contacts	34	2” Pipe	2” Pipe	105 / 250 lbs
SWK-2000/130/MS	SWK-2000/130/UMS	Metal bowl, potential-free probe	34	2” Pipe	2” Pipe	105 / 250 lbs

- Maximum flow rate refers total fuel pumped by lift pump, which is not always equal to the burn rate.
- Filter size must accommodate manufacturer’s specified maximum lift pump flow rate.
- Appropriately sized hardware is mandatory for proper filter operation.

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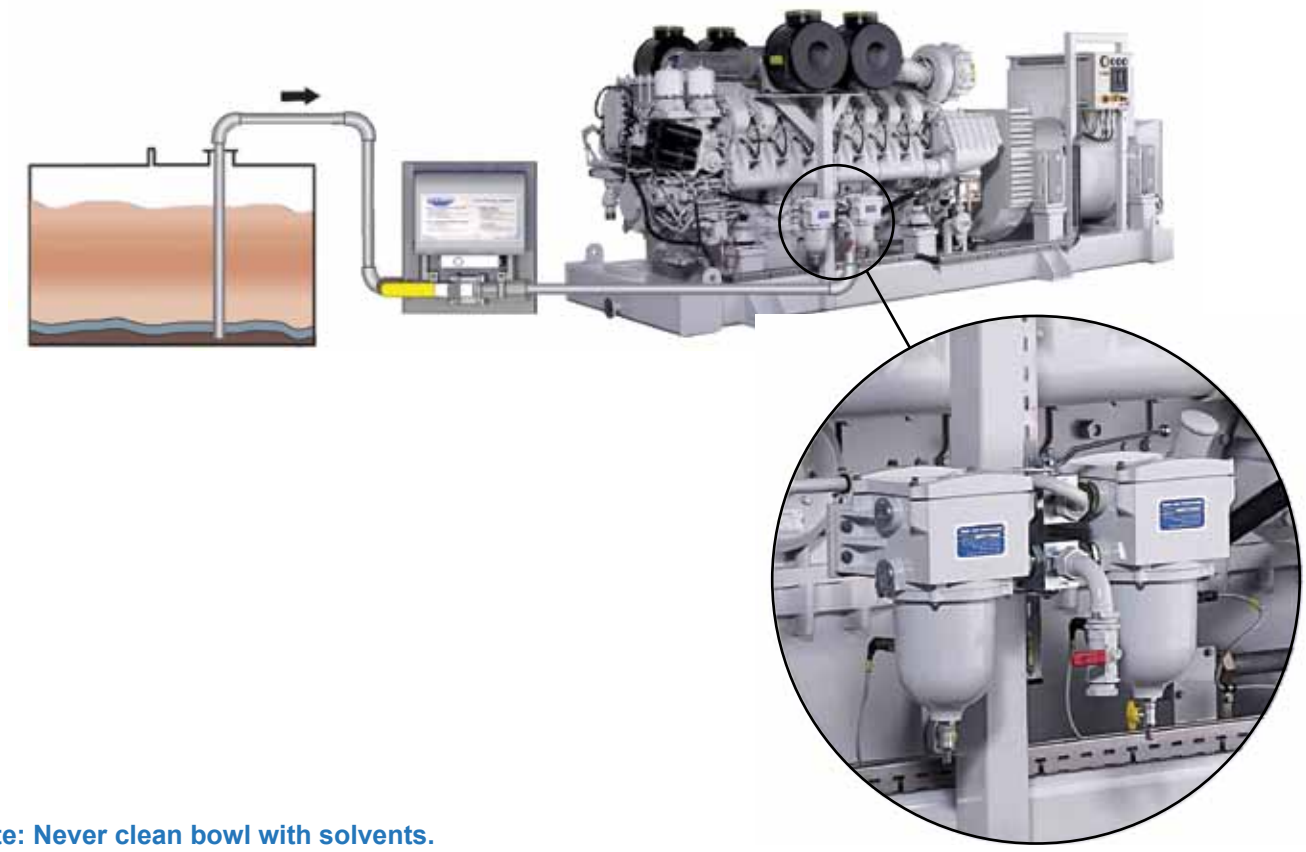
Installation Instructions

- The Separ 2000 should be installed on the suction side of the fuel system, between the fuel feed tank and the engine mounted fuel priming pump.
- Install the filter in an accessible position to allow water and particulate removal and filter element change (a minimum of 4” above is required for element change).
- The filter housing has two inlet and two outlet ports to give options on installation position.
- The ideal position for the filter is at the same height as the lift pump. However, if the top of the fuel tank is above this position a “full flow” ball valve should be fitted before the filter, so that the fuel flow can be shut off to allow filter maintenance.
- Filter can be mounted directly on engine.
- In applications where the fuel level is below the filter it is still advisable to install a ”full flow” ball valve to prevent fuel draining back into the fuel tank.
- After filter installation or service, priming is necessary before use.
- Avoid sharp 90° bends on the fuel system piping as these increase system pressure drop, as does any reduction in the internal diameter of fuel piping.
- Ensure fittings are tight and free of leaks.



Note: Never clean bowl with solvents.

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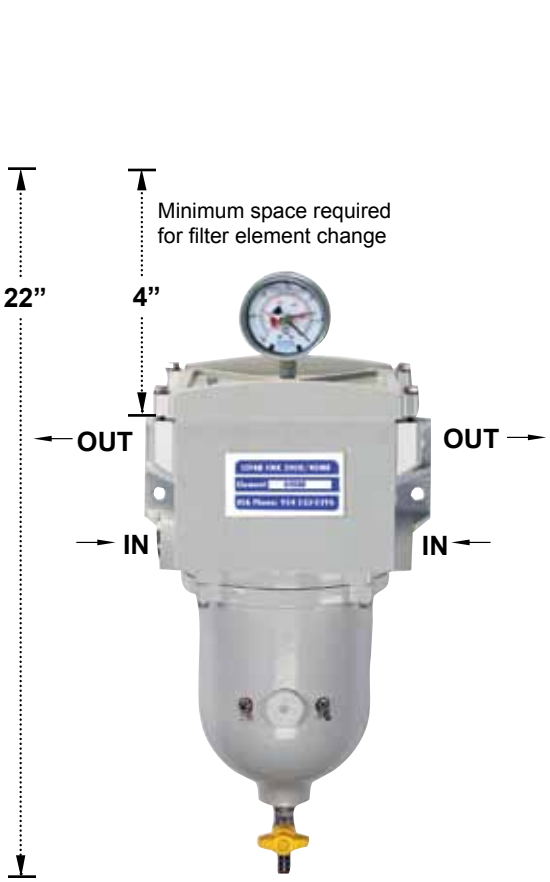
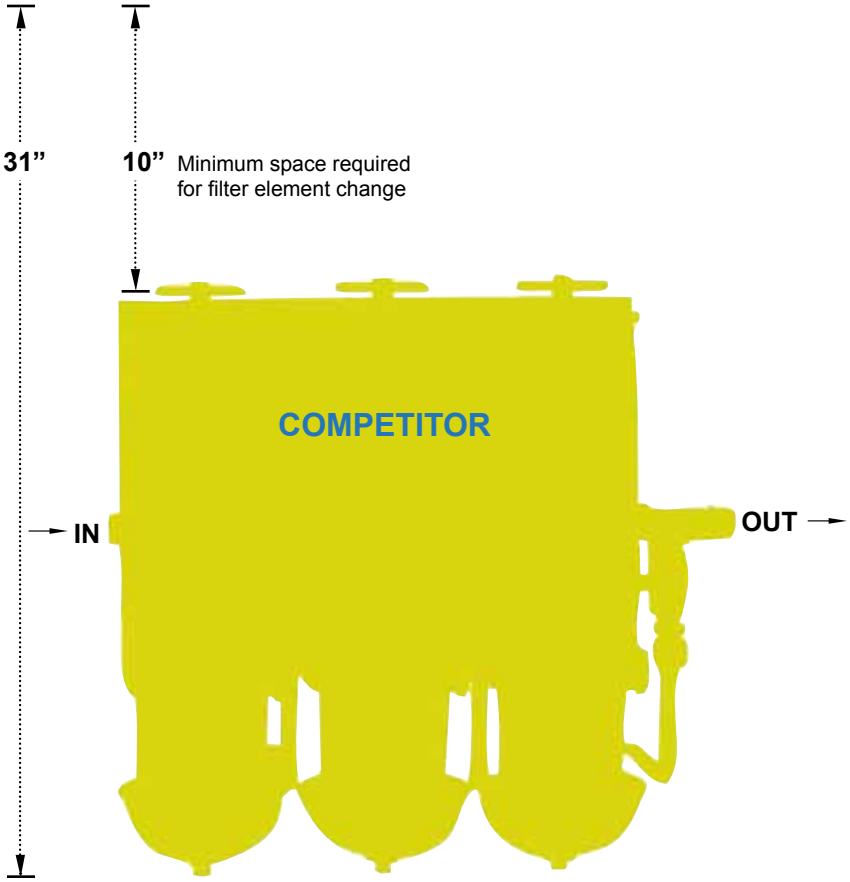
Separ 2000

Comparison Chart





SWK-2000/40MK-G	COMPETITOR
• 634 GPH (2400 LPH) fuel/water separation efficiency = 99.9% • Minimum free wall space needed 12” W x 22” H x 9” D (304.8mm x 558.8mm x 228.6mm) • 1 element to change • 0.47 psi (0.95 in-Hg) Pressure drop [ΔT] • Backflushable (Cleanable) element • 2 (in & out) ports each side	• 540 GPH (2044 LPH) fuel/water separation efficiency = unknown • Minimum free wall space needed 20” W x 31” H x 11” D (508mm x 787.4mm x 279.4mm) • 3 Elements to change • 2.5 psi (5.09 in-Hg) Pressure drop [ΔT] • 1 time use elements • Only 1 port on each side

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SWK- 2000/5

Max. Flow Rate: 79 GPH (300 LPH)

- Separ 2000 series water separators fuel filters are a simple solution to many different fuel related problems.
- Five separate stages of filtration ensure 99.9% water separation (Certified TUV Report using SAE J1839) at maximum flow.
- Low restriction reduces wear on fuel pumps and ensures full RPMs.
- Backflushable (cleanable) element reduces down time and costly element changes.
- Marine version with U.S. Coast Guard-accepted metal heat deflector.

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MARINE

Shown: Industrial (left to right) 2000/5, 2000/5U
Marine (left to right) 2000/5D, 2000/5UD-G

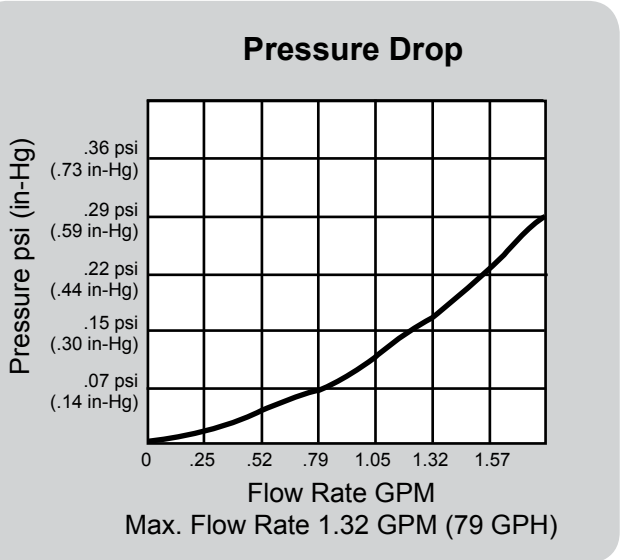
Inlet / Outlet Connections

Single Unit: 3/4”-16 Straight o-ring SAE
Duplex Unit: Shipped with optional #8 Male JIC Flare (other adapters available)
Inlet and Outlet Pipe connection 12mm.

Ordering Specifications

SWK-2000/5 U M MK K KD D - G

- U — Duplex
- M — Metal bowl
- MK — Metal bowl w/ contacts
- K — Clear bowl w/ water contacts
- KD — Clear bowl w/ metal heat deflector and water contacts
- D — Clear bowl w/ metal heat deflector
- G — Gauge



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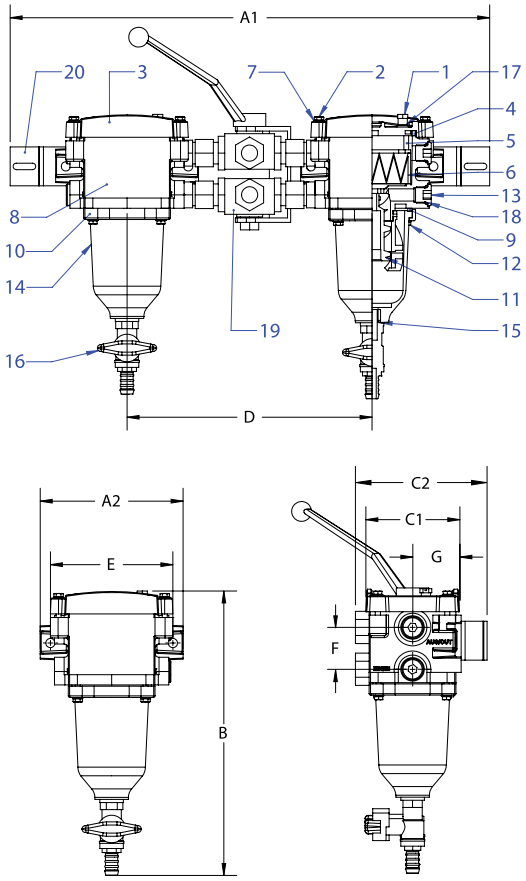
SWK- 2000/5

Specifications

INDUSTRIAL



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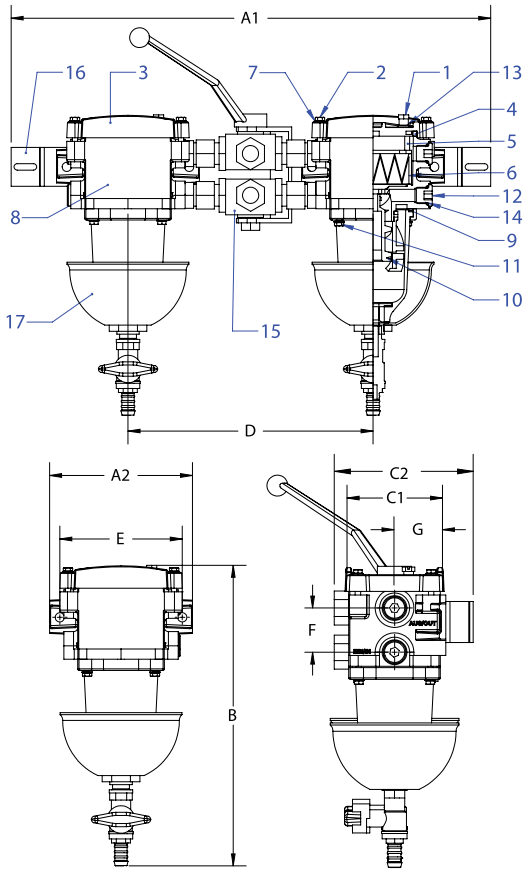

Item	Part #	Description
1	30408	Bleed Screw
2	FAB518220	Lid Screw
3	30542	Lid
4	10367	Lid Gasket
5	30295	Spring Frame
6		Filter Element
	00510	10 Micron
	00530	30 Micron (standard)
	00560S	60 Micron (stainless steel)
7	30447	Washer
8	30372	Housing
9	10366	Bowl Gasket
10	30564	Retainer Ring
11	30548	Centrifuge
12	30561	Bowl Screw
13	6408-08	Plug
14	30984	Clear Bowl
15	10360	Drain Valve O-Ring
16	30366	Drain Valve
17	30558	Bleed Screw Gasket
18	6408-08	Plug O-Ring
19	30474	Reversing Valve Assembly
20	30475	Mounting Bracket

Dimension	
A1	18.5” (469.9mm)
A2	5.51” (140mm)
B	10.98” (278.8mm)
C1	3.68” (93.5mm)
C2	5.07” (128.8mm)
D	9.45” (240mm)
E	4.72” (120mm)
F	1.61” (41mm)
G	1.87” (47.5mm)

Model	Weight
SWK-2000/5	3 lbs (1.36 kg)
SWK-2000/5U	11 lbs (4.99 kg)

Item	Part #	Description
1	30408	Bleed Screw
2	FAB518220	Lid Screw
3	30542	Lid
4	10367	Lid Gasket
5	30295	Spring Frame
6		Filter Element
	00510	10 Micron
	00530	30 Micron (standard)
	00560S	60 Micron (stainless steel)
7	30447	Washer
8	30372	Housing
9	10366	Bowl Gasket
10	30548	Centrifuge
11	30561	Bowl Screw
12	6408-08	Plug
13	30558	Bleed Screw Gasket
14	6408-08	Plug O-Ring
15	2000_5-VA	Reversing Valve Assembly
16	30475	Mounting Bracket
17		Bowl Assembly
	30988W	Single Unit (white)
	30988	Duplex Unit (grey)

Dimension	
A1	18.5” (469.9mm)
A2	5.51” (140mm)
B	10.98” (278.8mm)
C1	3.68” (93.5mm)
C2	5.07” (128.8mm)
D	9.45” (240mm)
E	4.72” (120mm)
F	1.61” (41mm)
G	1.87” (47.5mm)

Model	Weight
SWK-2000/5D	4 lbs (1.81 kg)
SWK-2000/5UD	12.5 lbs (5.67 kg)

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SWK- 2000/5/50

Max. Flow Rate: 79 GPH (300 LPH)

- Separ 2000 series water separators fuel filters are a simple solution to many different fuel related problems.
- Five separate stages of filtration ensure 99.9% water separation (Certified TUV Report using SAE J1839) at maximum flow.
- Low restriction reduces wear on fuel pumps and ensures full RPMs.
- Backflushable (cleanable) element reduces down time and costly element changes.
- Marine version with U.S. Coast Guard-accepted metal heat deflector.

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MARINE

Shown: Industrial (left to right) 2000/5/50, 2000/5/50U
Marine (left to right) 2000/5/50D, 2000/5/50UD-G

Inlet / Outlet Connections

Single Unit: 3/4”-16 Straight o-ring SAE
Duplex Unit: Shipped with #8 Male JIC Flare
(other adapters available)
Inlet and Outlet Pipe connection 12mm.

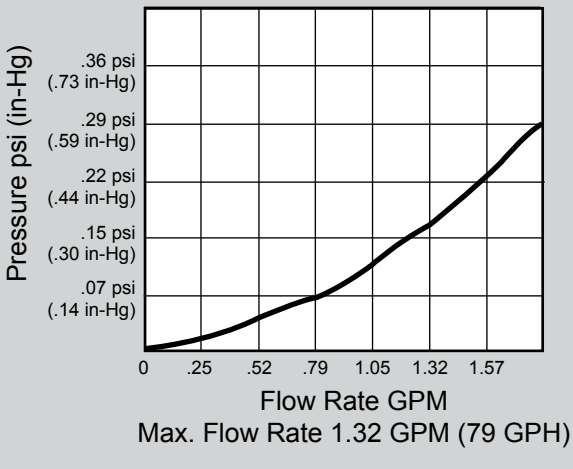
Ordering Specifications

SWK-2000/5/50 U M MK K KD D A - G

- U — Duplex
- M — Metal bowl
- MK — Metal bowl w/ contacts
- K — Clear bowl w/ water contacts
- KD — Clear bowl w/ metal heat deflector and water contacts
- D — Clear bowl w/ metal heat deflector
- A — Automatic switchable duplex (See page 18 for details)
- G — Gauge

We reserve the right to alter the specification without prior notice.

Pressure Drop



Max. Flow Rate 1.32 GPM (79 GPH)

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SWK- 2000/5/50

Specifications

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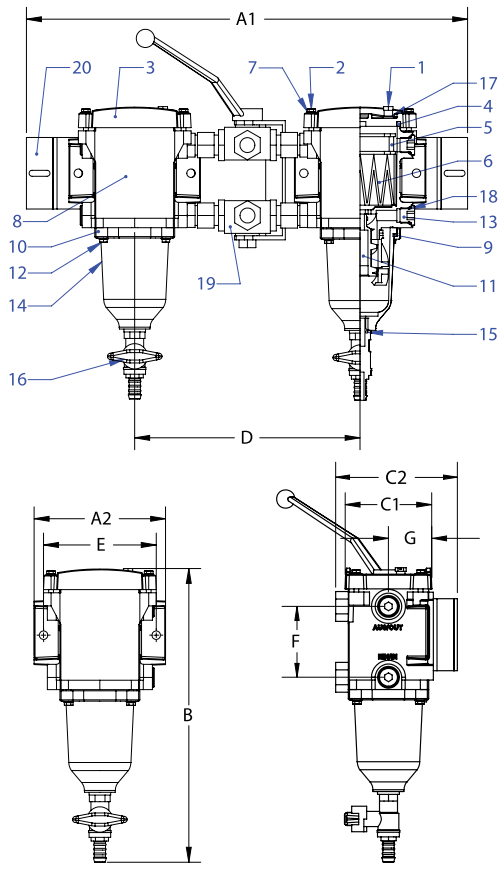
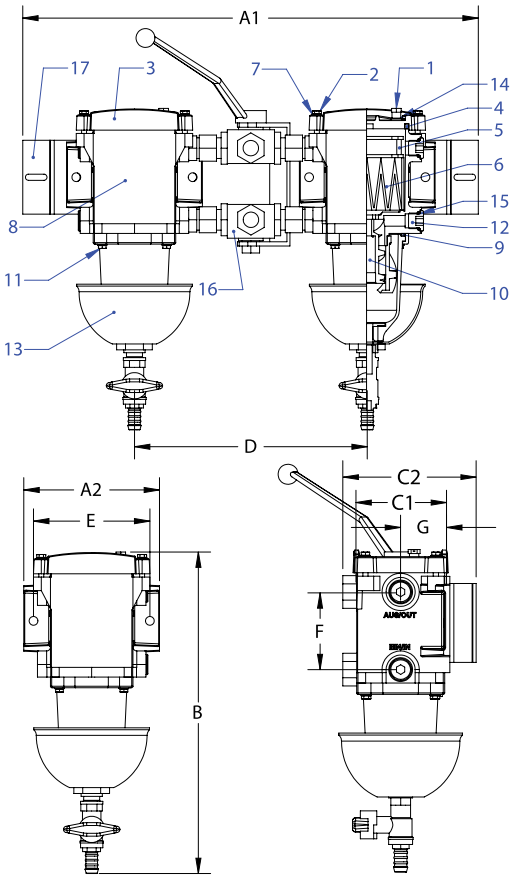


MARINE



Item	Part #	Description
1	30408	Bleed Screw
2	FAB51821	Lid Screw
3	30542	Lid
4	10367	Lid Gasket
5	30295	Spring Frame
6		Filter Element
	00510/50	10 Micron
	00530/50	30 Micron (standard)
	00560/50S	60 Micron (stainless steel)
7	30447	Washer
8	30380	Housing
9	10366	Bowl Gasket
10	30564	Retainer Ring
11	30548	Centrifuge
12	30561	Bowl Screw
13	6408-08	Plug
14	30984	Clear Bowl
15	10360	Drain Valve O-Ring
16	30366	Drain Valve
17	30558	Bleed Screw Gasket
18	6408-08	Plug O-Ring
19	30474	Reversing Valve Assembly
20	30476	Mounting Bracket

Dimension	
A1	18.5" (469.9mm)
A2	5.51" (140mm)
B	12.31" (312.8mm)
C1	3.68" (93.5mm)
C2	5.07 (128.8mm)
D	9.45" (240.14mm)
E	4.72" (120mm)
F	2.95" (75mm)
G	1.87" (47.5mm)

Model	Weight
SWK-2000/5/50	3.5 lbs (1.59 kg)
SWK-2000/5/50U	12 lbs (5.44 kg)

Item	Part #	Description
1	30408	Bleed Screw
2	FAB-51821	Lid Screw
3	30542	Lid
4	10367	Lid Gasket
5	30295	Spring Frame
6		Filter Element
	00510/50	10 Micron
	00530/50	30 Micron (standard)
	00560/50S	60 Micron (stainless steel)
7	30447	Washer
8	30380	Housing
9	10366	Bowl Gasket
10	30548	Centrifuge
11	30561	Bowl Screw
12	6408-08	Plug
13		Bowl Assembly
	30988W	Single unit (white)
	30988	Duplex unit (grey)
14	30558	Bleed Screw Gasket
15	6408-08	Plug O-Ring
16	30474	Reversing Valve Assembly
17	30476	Mounting Bracket

Dimension	
A1	18.5" (469.9mm)
A2	5.51" (140mm)
B	12.31" (312.8mm)
C1	3.68" (93.5mm)
C2	4.72" (120mm)
D	9.45" (240.14mm)
E	4.72" (120mm)
F	2.95" (75mm)
G	1.87" (47.5mm)

Model	Weight
SWK-2000/5/50D	4.5 lbs (2.04 kg)
SWK-2000/5/50UD	13.5 lbs (6.12 kg)

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SWK- 2000/10

Max. Flow Rate: 158 GPH (600 LPH)

- Separ 2000 series water separators fuel filters are a simple solution to many different fuel related problems.
- Five separate stages of filtration ensure 99.9% water separation (Certified TUV Report using SAE J1839) at maximum flow.
- Low restriction reduces wear on fuel pumps and ensures full RPMs.
- Backflushable (cleanable) element reduces down time and costly element changes.
- Marine version with U.S. Coast Guard-accepted metal heat deflector.

INDUSTRIAL

MARINE

Shown: Industrial (left to right) 2000/10, 2000/10U
Marine (left to right) 2000/10D-G, 2000/10UD-G

Inlet / Outlet Connections

Single Unit: 7/8-14 Straight o-ring SAE
Duplex Unit: Shipped with #8 Male JIC Flare
(other adapters available)
Inlet and Outlet Pipe connection 15mm.

Ordering Specifications

SWK-2000/10 U M MK K KD D A - G

- U — Duplex
- M — Metal bowl
- MK — Metal bowl w/ contacts
- K — Clear bowl w/ water contacts
- KD — Clear bowl w/ metal heat deflector and water contacts
- D — Clear bowl w/ metal heat deflector
- A — Automatic switchable duplex
  (See page 18 for details)
- G — Gauge

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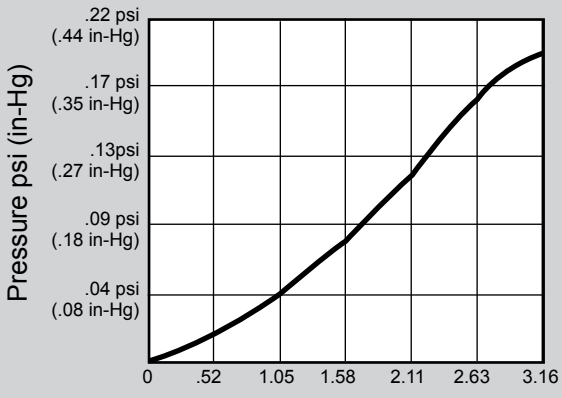
Pressure Drop



Max. Flow Rate 2.63 GPM (158 GPH)

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SWK- 2000/10

Specifications

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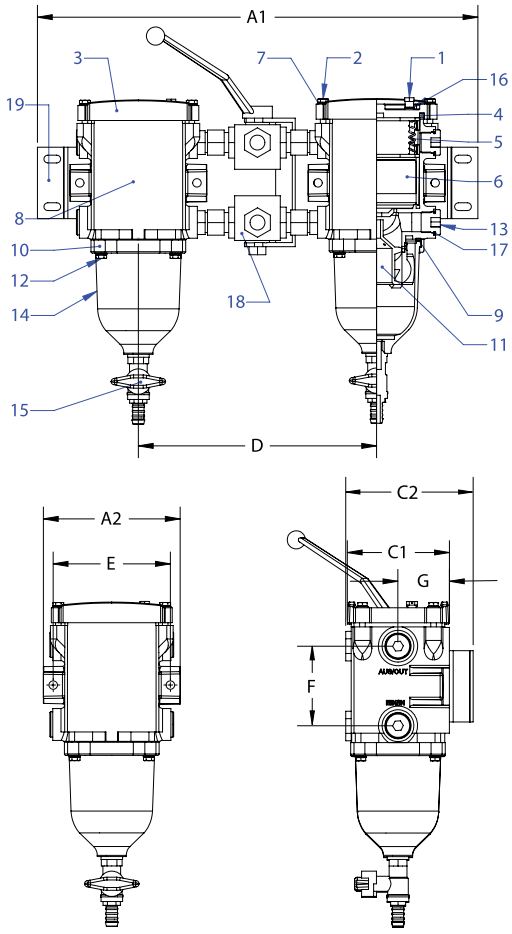
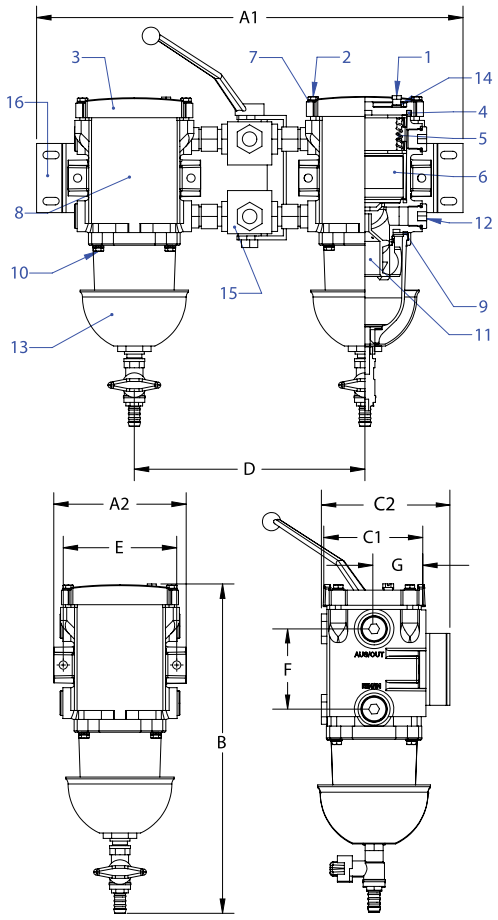


Item	Part #	Description
1	30408	Bleed Screw
2	FAB-51822	Lid Screw
3	30553	Lid
4	10362	Lid Gasket
5	30297	Spring Frame
6		Filter Element
	01010	10 Micron
	01030	30 Micron (standard)
	01060S	60 Micron (stainless steel)
7	30448	Washer
8	30552	Housing
9	10361	Bowl Gasket
10	30569	Bowl Retaining Ring
11	30563	Centrifuge
12	30568	Bowl Screw
13	6408-10	Plug
14	30985	Clear Bowl
15	30366	Drain Valve
16	30558	Bleed Screw Gasket
17	6408-10	Plug O-Ring
18	30476	Reversing Valve Assembly
19	30477	Mounting Bracket

Dimension	
A1	18.5" (469.9mm)
A2	5.75" (146mm)
B	13.65" (346.8mm)
C1	4.29" (109mm)
C2	5.37" (136.4mm)
D	10" (254mm)
E	4.92" (125mm)
F	3.35" (85mm)
G	2.17" (55mm)

Model	Weight
SWK-2000/10	6 lbs (2.72 kg)
SWK-2000/10U	18.5 lbs (8.39 kg)

MARINE



Item	Part #	Description
1	30408	Bleed Screw
2	FAB-51822	Lid Screw
3	30553	Lid
4	10362	Lid Gasket
5	30297	Spring Frame
6		Filter Element
	01010	10 Micron
	01030	30 Micron (standard)
	01060S	60 Micron (stainless steel)
7	30448	Washer
8	30552	Housing
9	10361	Bowl Gasket
10	30568	Bowl Screw
11	30563	Centrifuge
12	6408-10	Plug
13		Bowl Assembly
	30989W	Single Unit (white)
	30989	Duplex Unit (grey)
14	30558	Bleed Screw Gasket
15	2000_10-VA	Reversing Valve Assembly
16	30477	Mounting Bracket

Dimension	
A1	18.5" (469.9mm)
A2	5.75" (146mm)
B	13.65" (346.8mm)
C1	4.29" (109mm)
C2	5.37" (136.4mm)
D	10" (254mm)
E	4.92" (125mm)
F	3.35" (85mm)
G	2.17" (55.1mm)

Model	Weight
SWK-2000/10D	6.5 lbs (2.95 kg)
SWK-2000/10UD	19.5 lbs (8.85 kg)

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SWK- 2000/18

Max. Flow Rate: 285 GPH (1,080 LPH)

- Separ 2000 series water separators fuel filters are a simple solution to many different fuel related problems.
- Five separate stages of filtration ensure 99.9% water separation (Certified TUV Report using SAE J1839) at maximum flow.
- Low restriction reduces wear on fuel pumps and ensures full RPMs.
- Backflushable (cleanable) element reduces down time and costly element changes.
- Marine version with U.S. Coast Guard-accepted metal heat deflector.

INDUSTRIAL

MARINE

Shown: Industrial (left to right) 2000/18, 2000/18U
Marine (left to right) 2000/18D-G, 2000/18UD-G

Inlet / Outlet Connections

Single Unit: 1 1/16-12 Straight o-ring SAE
Duplex Unit: Shipped with #12 Male JIC Flare
(other adapters available)
Inlet and Outlet Pipe connection 22mm.

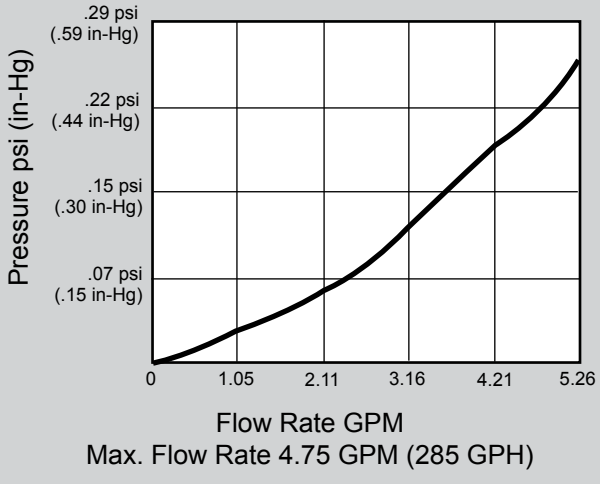
Ordering Specifications

SWK-2000/18 U M MK K KD D A - G

- U — Duplex
- M — Metal bowl
- MK — Metal bowl w/ contacts
- K — Clear bowl w/ water contacts
- KD — Clear bowl w/ metal heat deflector and water contacts
- D — Clear bowl w/ metal heat deflector
- A — Automatic switchable duplex (See page 18 for details)
- G — Gauge

We reserve the right to alter the specification without prior notice.

Pressure Drop



Max. Flow Rate 4.75 GPM (285 GPH)

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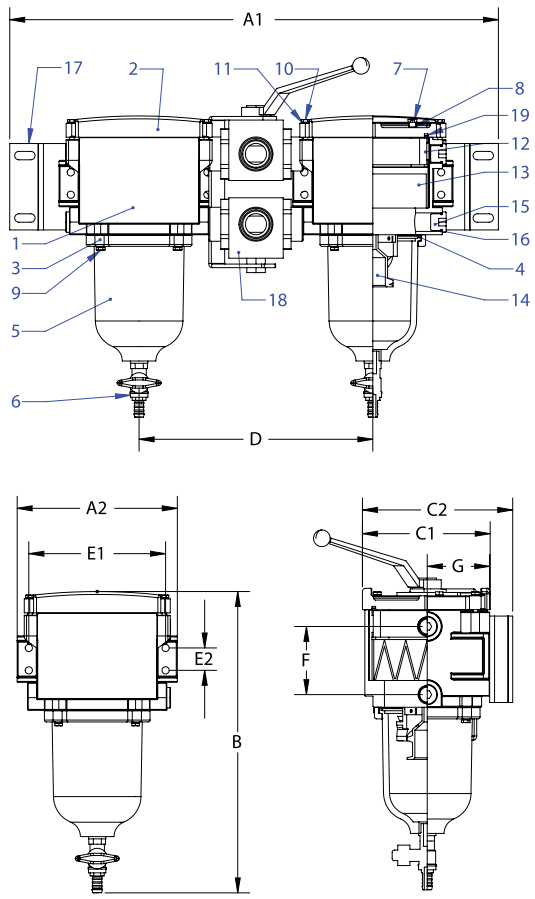
SWK- 2000/18

Specifications

INDUSTRIAL

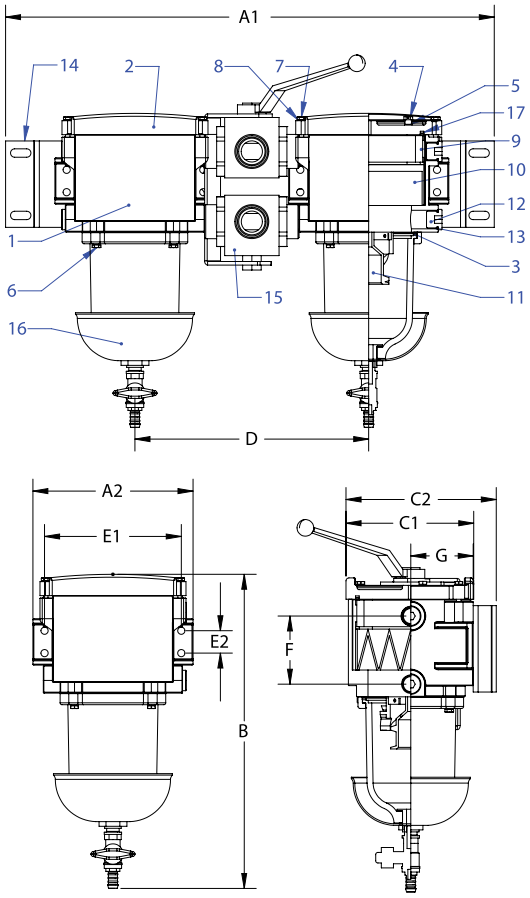


Item	Part #	Description
1	30428	Housing
2	30572	Lid
3	30575	Retaining Ring
4	30423	Bowl Gasket
5	30986	Bowl
6	30343	Drain Valve
7	30408	Bleed Screw
8	30558	Bleed Screw Gasket
9	30567	Bowl Screw
10	30452	Lid Screw
11	30448	Washer
12	30298	Spring Frame
13		Filter Element
	01810	10 Micron
	01830	30 Micron (standard)
	01860S	60 Micron (stainless steel)
14	30429	Centrifuge
15	30705	Plug
16	30721	Plug O-Ring
17	30466	Mounting Bracket
18	30465	Reversing Valve Assembly
19	30421	Lid Gasket

Dimension	
A1	25.5" (446.4mm)
A2	8.34" (211.8mm)
B	15.7" (398.8mm)
C1	6.6" (168.3mm)
C2	7.83" (198.9mm)
D	12.2" (309.2mm)
E1	7.12" (180.15mm)
E2	1.17" (29.6mm)
F	3.55" (90.1mm)
G	3.25" (82.6mm)

Model	Weight
SWK-2000/18	10.5 lbs (4.76 kg)
SWK-2000/18U	34.5 lbs (15.65 kg)

MARINE



Item	Part #	Description
1	30428	Housing
2	30572	Lid
3	30423	Bowl Gasket
4	30408	Bleed Screw
5	30558	Bleed Screw Gasket
6	30567	Bowl Screw
7	30452	Lid Screw
8	30448	Washer
9	30298	Spring Frame
10		Filter Element
	01810	10 Micron
	01830	30 Micron (standard)
	01860S	60 Micron (stainless steel)
11	30429	Centrifuge
12	30705	Plug
13	30721	Plug O-Ring
14	30466	Mounting Bracket
15	30465	Reversing Valve Assembly
16		Bowl Assembly
	30990W	Single Unit (white)
	30990	Duplex Unit (grey)
17	30421	Lid Gasket

Dimension	
A1	25.5" (446.4mm)
A2	8.34" (211.8mm)
B	15.7" (398.8mm)
C1	6.6" (168.3mm)
C2	7.83" (198.9mm)
D	12.2" (309.2mm)
E1	7.12" (180.15mm)
E2	1.17" (29.6mm)
F	3.55" (90.1mm)
G	3.25" (82.6mm)

Model	Weight
SWK-2000/18D	11 lbs (4.99 kg)
SWK-2000/18UD	35.5 lbs (16.10kg)

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SWK- 2000/40

Max. Flow Rate: 630 GPH (2,400 LPH)

- Separ 2000 series water separators fuel filters are a simple solution to many different fuel related problems.
- Five separate stages of filtration ensure 99.9% water separation (Certified TUV Report using SAE J1839) at maximum flow.
- Low restriction reduces wear on fuel pumps and ensures full RPMs.
- Backflushable (cleanable) element reduces down time and costly element changes.

Shown: top 2000/40MK
bottom 2000/40UM

Inlet / Outlet Connections

Single Unit: 1 5/16-12 Straight o-ring SAE
Duplex Unit: Shipped with #20 Male JIC Flare
(other adapters available)
Inlet and Outlet Pipe connection 22mm.

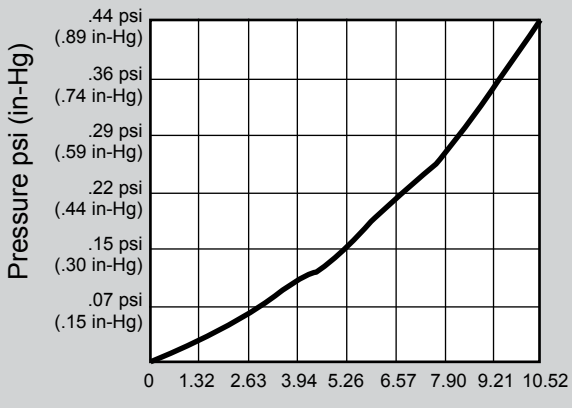
Ordering Specifications

SWK-2000/40 U M MK MS A - G

- U — Duplex
- M — Metal bowl
- MK — Metal bowl w/ contacts
- MS — Metal bowl w/ potential-free probe for water level indication
- A — Automatic switchable duplex
  (See page 18 for details)
- G — Gauge

We reserve the right to alter the specification without prior notice.

Pressure Drop



Max. Flow Rate 10.5 GPM (630 GPH)

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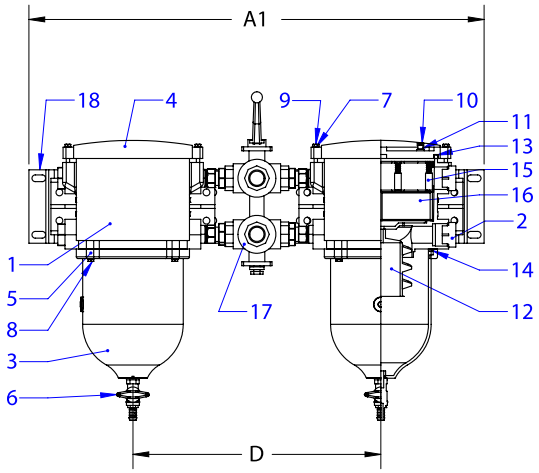
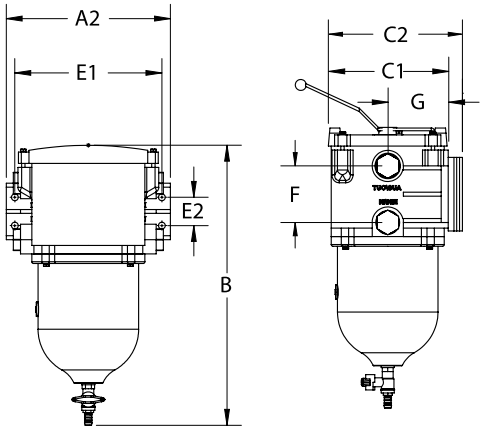
SWK- 2000/40

Specifications





Item	Part #	Description
1	10049	Filter Housing
2	BI 6408-16-0	1" Hex Plug
3	30457	Bowl
4	30435	Lid
5	30446	Retainer Ring
6	30456	Drain Valve
7	30447	Washer
8	30568	Bowl Screw
9	30404	Lid Screw
10	30408	Bleed Screw
11	30558	Bleed Screw Gasket
12	30438	Centrifuge
13	30440	Lid Gasket
14	30442	Bowl Gasket
15	30299	Spring Frame
16		Filter Element
	04010	10 Micron
	04030	30 Micron (Standard)
	04060S	60 Micron (stainless steel)
17	30467	Reversing Valve Assembly
18	30470	Mounting Bracket

Dimension	
A1	31.69" (805mm)
A2	11.42" (290mm)
B	19.49" (495.1mm)
C1	8.35" (212mm)
C2	9.34" (237.2mm)
D	17.22" (437.5mm)
E1	10.24" (260mm)
E2	1.97" (50mm)
F	3.94" (100mm)
G	4.21" (107mm)

Model	Weight
SWK-2000/40M	24.5 lbs (11.11 kg)
SWK-2000/40UM	68 lbs (30.84 kg)

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SWK- 2000/130

Max. Flow Rate: 2,060 GPH (7,800 LPH)

- Separ 2000 series water separators fuel filters are a simple solution to many different fuel related problems.
- Five separate stages of filtration ensure 99.9% water separation (Certified TUV Report using SAE J1839) at maximum flow.
- Low restriction reduces wear on fuel pumps and ensures full RPMs.
- Backflushable (cleanable) element reduces down time and costly element changes.

Shown: top 2000/130MK-G
bottom 2000/130UMK-G

Inlet / Outlet Connections

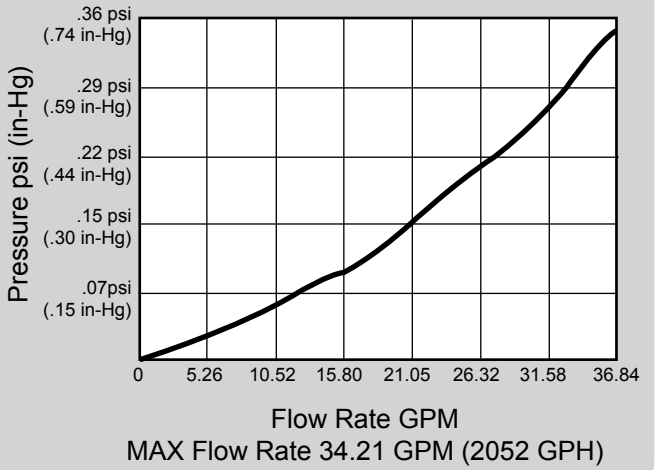
Single Unit: 2“ NPT Pipe
Duplex Unit: 2” FNPT (other adapters available)
Inlet and Outlet Pipe connection 2” NPT.

Ordering Specifications

SWK-2000/130 U MK MS A - G

- U — Duplex
- MK — Metal bowl w/ contacts
- MS — Metal bowl w/ potential-free probe for water level indication
- A — Automatic switchable duplex (See page 18 for details)
- G — Gauge

Pressure Drop



MAX Flow Rate 34.21 GPM (2052 GPH)

We reserve the right to alter the specification without prior notice.

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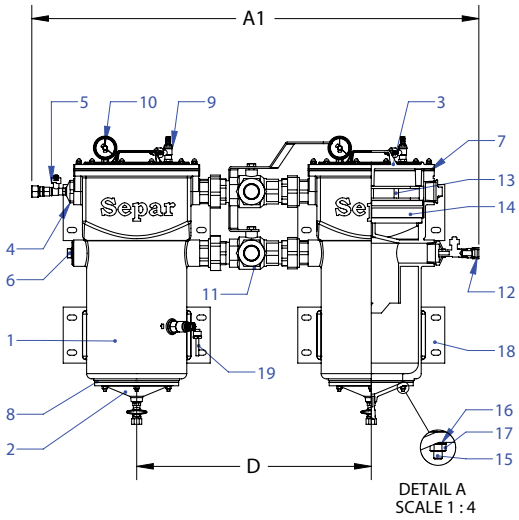
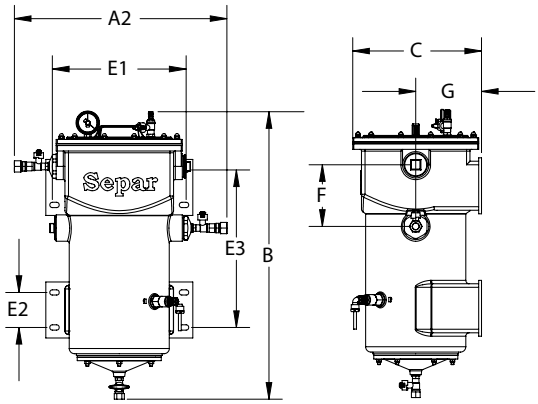
SWK- 2000/130

Specifications





Item	Part #	Description
1	10133	Housing
2	10135	Bowl
3	10050	Lid
4	10058	2” BSP Fitting
5	30456	Drain Valve
6	10053	2” BSP Plug
7	30387	Lid Gasket
8	10136	Bowl Gasket
9	30366	Bleed Valve
10	30650	Vacuum Gauge
11	10043	Reversing Valve Assembly
12	10062	Reducing Bushing
13	30298	Spring Frame
14	 01810 01830 01860S	Filter Element 10 Micron 30 Micron (Standard) 60 Micron (stainless steel)
15	10072	Stud Screw
16	30021	Washer
17	10073	Cap Nut
18	10129	Mounting Bracket
19	30402	Water Sensor

Dimension	
A1	47.56” (1208mm)
A2	23.9” (607.4mm)
B	32.34” (821.5mm)
C	14.49” (368mm)
D	26.38” (670mm)
E1	15.04” (382mm)
E2	3.94” (100mm)
E3	17.72”(450mm)
F	6.93” (176mm)
G	7.4” (188mm)

Model	Weight
SWK-2000/130MK	105 lbs (47.63 kg)
SWK-2000/130UMK	250 lbs (113.4 kg)

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Automatic Switchable Duplex

Water Separator / Primary Filter

Flow Ranges: 50 - 630 GPH (189 - 2,384 LPH)

Benefits

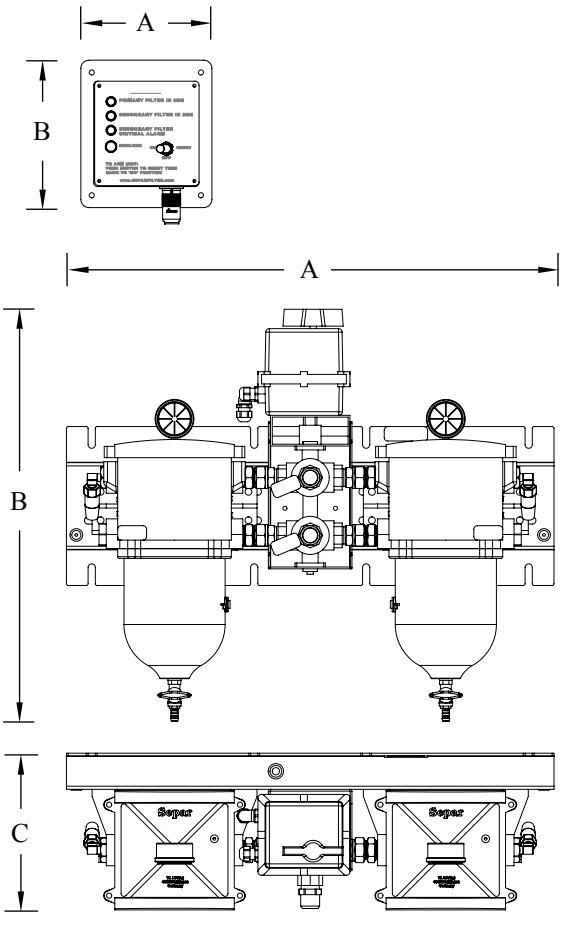
- Automatically switches to secondary filter when primary filter is clogged or water is detected
- 5 Stages of filtration ensures clean, dry fuel
- Low restriction reduces wear on fuel pumps and ensures full RPM's
- Helps prevent expensive fuel system component failure

Features

- Patented Separ filtration with minimal pressure drop
- Unique automated switch-over
- Nema DC controller
- Available in 12v and 24v

Ideal for

- Stand-by power systems
- Rail
- Marine



Amp Draw					
12v	2 Amps				
24v	4 Amps				
Model	**A**	**B**	**C**	**Port**	**Weight**
SWK2000/5/50UA	20" (508mm)	21.77" (553mm)	6.8" (178mm)	1/2" FNPT	29.5 lbs (13.3 kg)
SWK2000/10UA	20" (508mm)	22.95" (583mm)	7.09" (180mm)	3/4" FNPT	36 lbs (16.3 kg)
SWK2000/18UA	27" (686mm)	25.05" (636mm)	8.625" (229mm)	1" FNPT	59.5 lbs (27 kg)
SWK2000/40UA	33.75" (857mm)	32.75" (832mm)	10.875" (276mm)	1" FNPT	92 lbs (41.7 kg)
SWK2000/130UA	Contact us for specifications				
Control box	8" (203mm)	9" (229mm)			

Drawing dimensions for reference only.
Technical drawings available upon request.

Shown: SWK2000/40UA
* Patent pending

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EVO-10 Diesel Fuel Filter

Water Separator / Primary Filter

Max. Flow Rate: 158 GPH (600 LPH)

Benefits

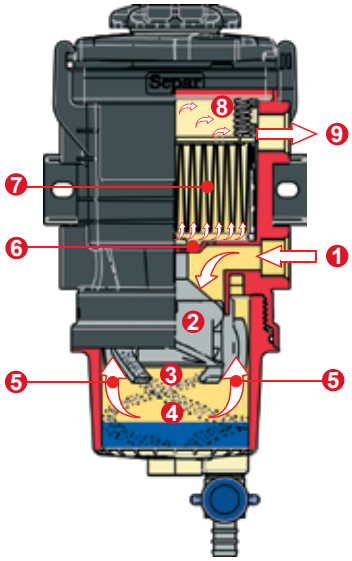
- High separation efficiency with minimal pressure drop
- Easy to install
- Service and environment friendly
- Compact design with minimal weight (3.5 lbs)

Ideal for

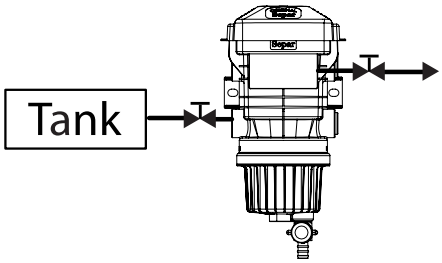
- Construction
- Transportation
- Off-Road Machinery
- Agricultural Applications
- Trucking

Options

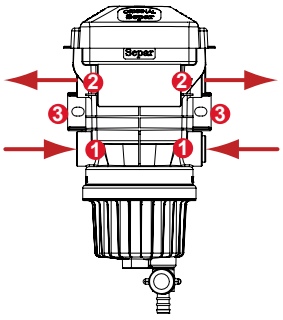
- Water Sensor
- Hand priming Kit



Installation



The filter has to be installed in the suction line (in between the tank and the fuel lift pump), however it does not matter whether the filter inlet is positioned above, level with, or below the maximum fuel level in the tank for the filter to function correctly. As a safety precaution we suggest installing a shut-off ball valve with full flow diameter between the fuel tank and the filter.



The filter should be attached to the mounting surface with suitable screws through the mounting brackets ❸ The inlets ❶ and outlets ❷ allow the fuel lines to be connected on the left and/or right side according to your requirements. The torque for the connection of fittings to the filter is 20 Nm or 175 in-lbs.

How It Works

❶ Fuel inlet
❷ Rotational motion is induced in the fuel, while passing through the internal vanes.
❸ The fuel exits the internal vane system and enters the filter bowl.
❹ Due to the rotational energy, water and particulates separate from the fuel and settle at the bottom of the bowl.
❺ The fuel is guided to the filter prechamber.
❻ The large cross section of the prechamber results in the fuel flow velocity being reduced, allowing more particulate separation.
❼ Suspended particulates and the finest water droplets are caught in the pleated media of the filter element.
❽ The cleaned fuel passes to the outlet chamber.
❾ Fuel outlet.

Inlet / Outlet Connections

Single Unit: 22 x 1.5 mm internal thread size

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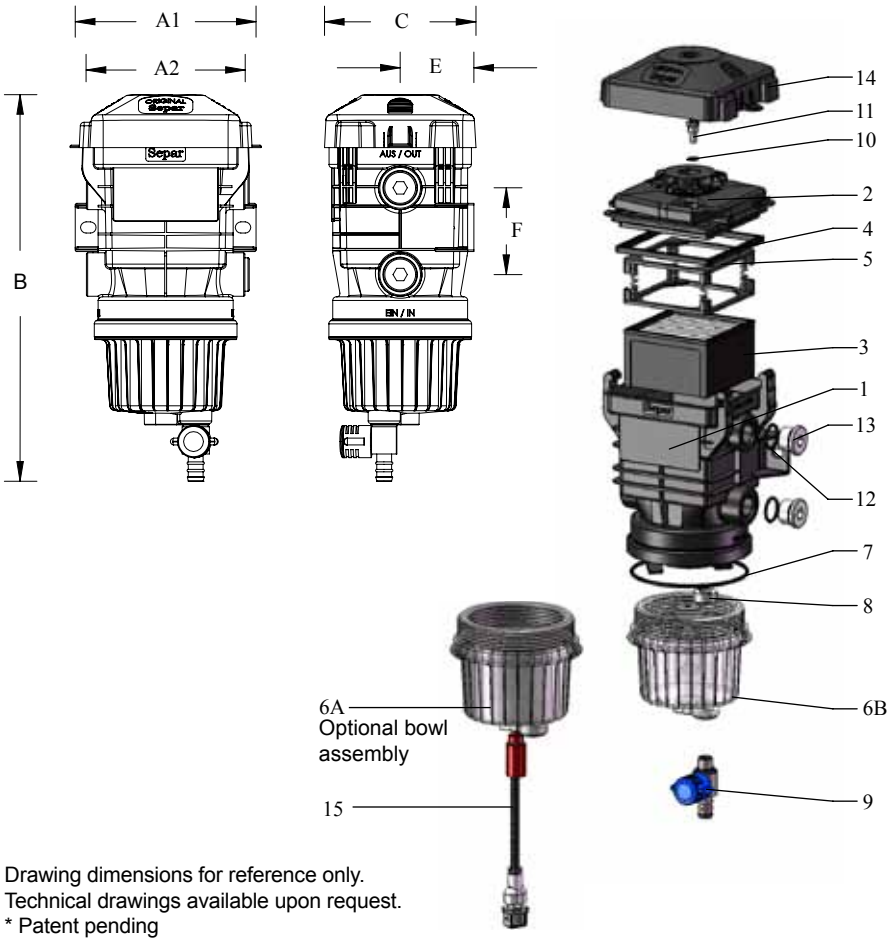
EVO-10 Diesel Fuel Filter

Specifications

Dimension	
A1	5.75” (144.8mm)
A2	5.06” (127mm)
B	12.29” (312.4mm)
C	4.82” (630mm)
D	9.45” (240mm)
E	2.34” (58.4mm)
F	2.76” (71mm)

Item	Part #	Description
1	10531	Filter Housing
2	10532	Filter Lid Sub Assembly
3	01030	Separ Filter Element
4	10559	Lid Gasket
5	10537	Spring Frame Sub-Assembly
6A	10541	Bowl with Water Sensor
6B	10542	Bowl
7	10543	Bowl Gasket, O-Ring
8	10398	Twin Hole Nut
9	10544	Drain Valve
10	30558	Seal Washer (USIT)
11	30408	Bleed Valve
12	6408-10	Plug O-Ring
13	9028-22	Blind Screw Plug
14	10609	Dust Cover
15	10507-A	Active Water Sensor



Drawing dimensions for reference only.
Technical drawings available upon request.
* Patent pending

Element Replacement Instructions

Step 1
Loosen the central tightening screw on the cover. Turn it until it reaches the stop position.

Step 2
Release the lid with a gentle pressure and rotate it left so that it is free of the bayonet.

Step 3
Remove the spring cassette. Pull the filter element out of the housing using the handle.

Step 4
Dispose of the used filter element responsibly (according to local regulations).

Step 5
Insert the new filter element.

Step 6
Replace the spring cassette.

Step 7
Reset the cover with a gentle downward pressure and a turn to the right. Check the correct location of the lid on the filter head.

Step 8
Tighten the screw to a torque of 10 Nm or 88 in-lbs. Prime the fuel system.

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FP-301

DC Fuel Priming System

- Pumps fuel into the fuel lines, purging trapped air in the main feed line and primary filters, secondary filters and engine.
- Protects delicate fuel systems:
  Contains integral pressure relief valves which are factory set to deliver the proper fuel pressure for each engine. Engine models available: MTU, MAN, CAT, Detroit 2000 / 4000 series, etc.
- Easy to install:
  As simple as splitting the fuel line and connecting each end of the fuel line to each side of the unit.
- Easy to operate:
  a) Close valve (on primer), open the air vent on filters or engine and flip the switch.
  b) When lines are purged, close the vents and open the valve (on primer).
- Has a small footprint
- 1" ports that accommodate a variety of engine sizes

Shown with optional Pendant Switch

Typical Installation

Technical Specification

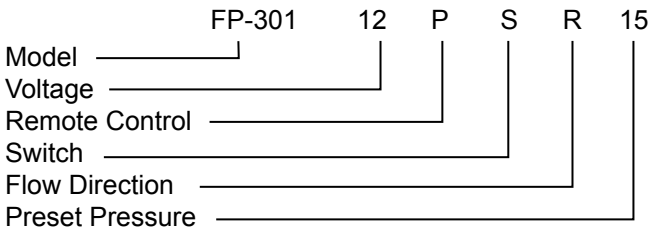
Ports	1" NPT Ports
Valve	1" Full Flow
Circuit Breaker	10A@12v, 5A@24v
Dimensions	10" x 11.38" x 4.36" (254 x 287 x 110mm)
Weight	13 lbs (5.9 kg)

Option

FP	Pendant switch (remote switch with extension cord)

Ordering Specifications

12	12 Volt
24	24 Volt
P	*Remote Control (leave blank for no remote)
S	Switch (momentary) (on the electric box)
N	No Switch (on the electric box)
L	Left to Right (Fuel flow direction)
R	Right to Left (Fuel flow direction)
15	Preset valve pressure (MTU, Detroit engine)
22	Preset valve pressure (MAN engine)



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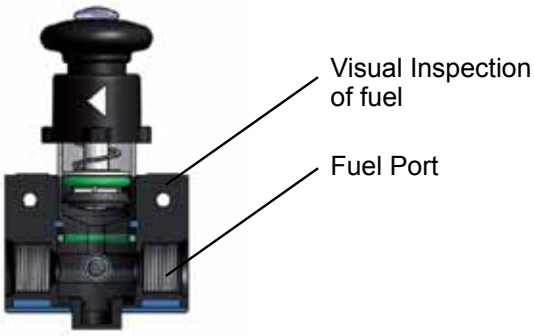
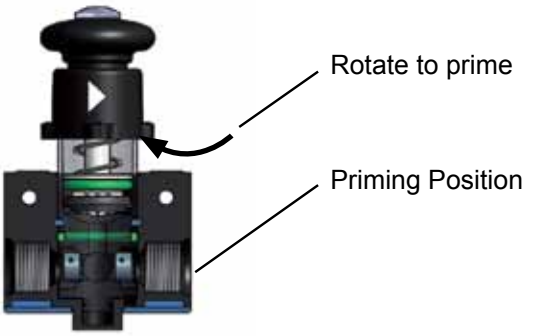
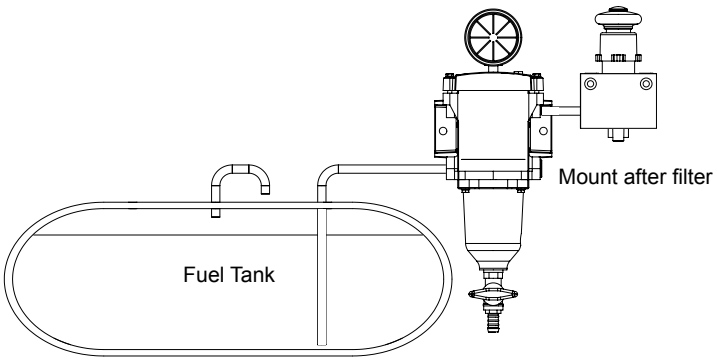
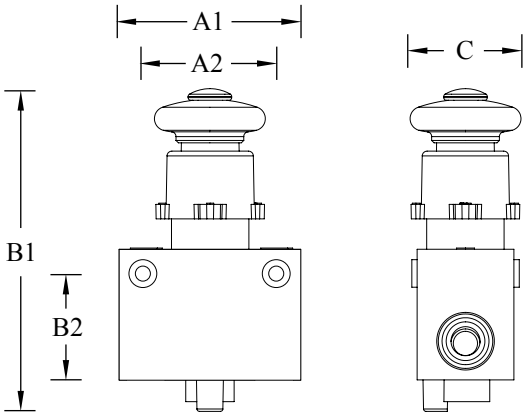
Diesel Fuel Hand Priming Pump

- Compact
- High Flow
- Can be mounted in any position
- Zero pressure drop in operating position
- Unique in-line design
- Compatible with B100 bio-diesel









Technical Specification

Internal Diameter (I.D.)	1/2”
Thread Size	m22 x 1.5
Operating Temp. Range	-40°C to +120°C
Pressure	develops 100 psi (7.5 bar)
Flow	.85 oz (25mL) per stroke

Model	Dimension	
10666	A1	2.95” (74.9 mm)
	A2	2.17” (55.1 mm)
	B1	4.96” (126 mm)
	B2	1.73” (43.9 mm)
	C	1.57” (39.9 mm)

Drawing dimensions for reference only.
Technical drawings available upon request.
Only use with compatible fluids.

* Patent pending

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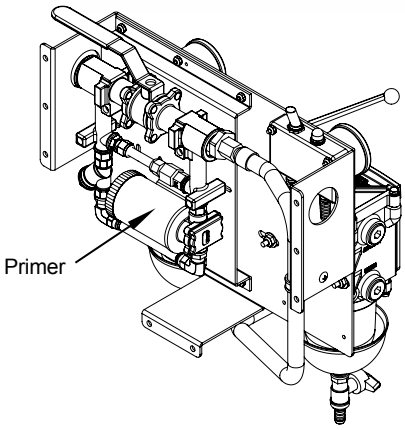
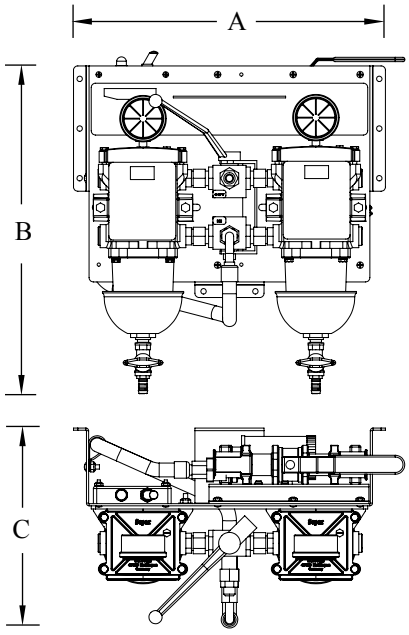
SPFS-10

Flow Rate: 180 GPH (681 LPH)

- Integrally mounted DC priming system
- Reduces cost of filter maintenance
- 99.9% water separation
  (Certified TUV Report using SAE J1839)
- 99% particulate removal
- Compact Design
- Easy operation
- Controlled priming
- Reduces down time and keeps engine running
- Marine version with U.S. Coast Guard-accepted metal heat deflector.





Technical Specification	
Inlet	1/2” #8 JIC Male
Outlet	1” FNPT
Volt	12 or 24v DC
Circuit Breaker	10A@12v, 5A@24v
Flow Rate	180 GPH (681 LPH)
Self Priming	5 ft (dry), 15 ft (wet)
Max Lift	15 ft (4.6 m)
Pump Body	Brass
Gears	Bronze
Shaft	Stainless Steel
Seal	Viton lip seal
Motor	DC Permanent Magnet

Part Number	Description
SPFS-10-01	2000/10UD w/ 12v fuel primer
SPFS-10-02	2000/10UD w/ 24v fuel primer

Filter Elements	Description
01010	2000/10 10 Micron
01030	2000/10 30 Micron (standard)
01060S	2000/10 60 Micron, stainless steel

Model	A	B	C	Weight
SPFS-10	17.83” (452.9mm)	19.42” (493.3mm)	12.67” (321.8mm)	45 lbs (20.4 kg)

Drawing dimensions for reference only.
Technical drawings available upon request.

Shown: SPFS-10-01

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Diesel Maintenance Center

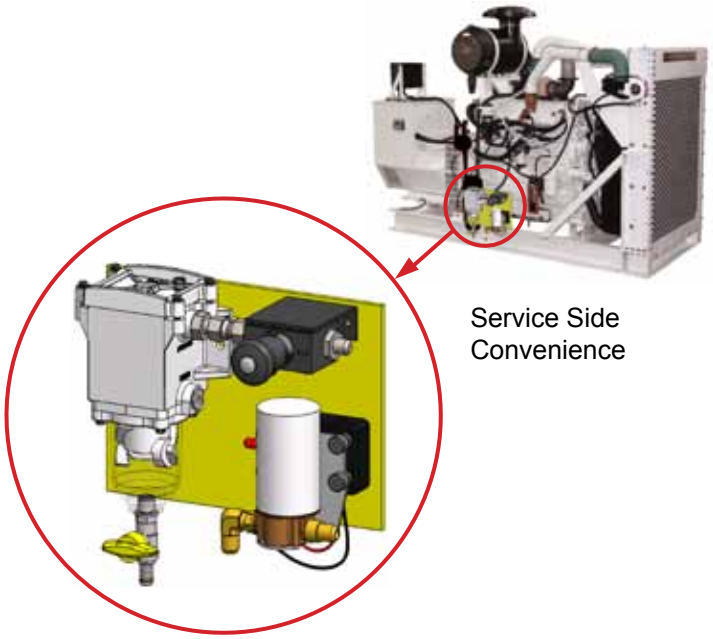
Permanently Installed Central Location Service Point

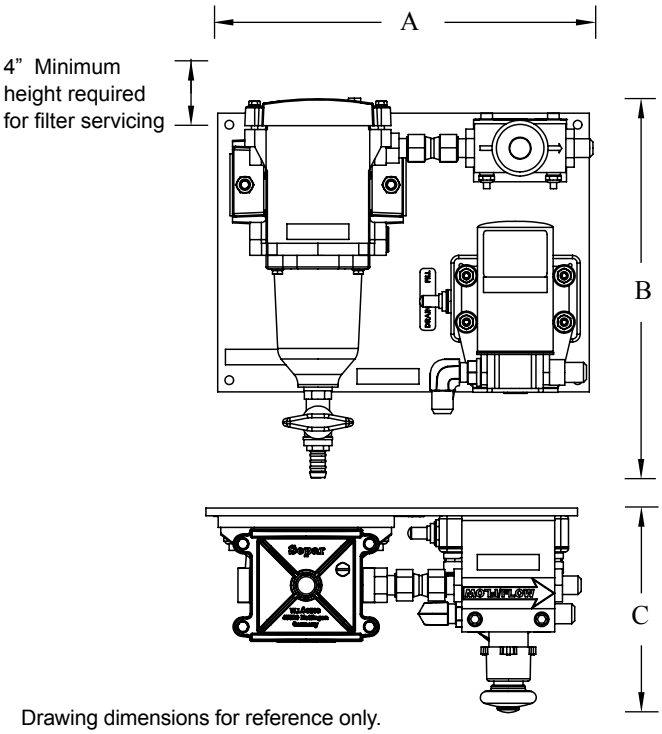
Multi-Functional Features

- Primary fuel water separator- Removes 99.9% of water
  (Certified TUV Report using SAE J1839)
- In-line manual fuel primer
- Drain/fill oil change system
- Environmentally responsible
- Minimal fuel flow restriction

Benefits

- Protects engine and augments reliability
- Reduces priming time
- Saves time on maintenance
- Reduces waste stream and risk of oil spillage
- Pumps oil into and out of engine
- Increases fuel system component life





Drawing dimensions for reference only.
Technical drawings available upon request.

Technical Specification

Filter	
Element	30 Micron
Flow Rate	79 GPH (299 LPH)
Inlet	#8 O-Ring Boss
Marine Version	Includes bowl w/ heat shield
Oil Change System - Fills and Drains	
Ports	1/2" Male JIC
Flow Rate	3 GPM (11.3 LPM)
Self Priming	5 ft (1.5 m) (wet gears)
Primer	
Operating temp. range	-40°C to +120°C
Flow	.85 oz (25 mL) per stroke
Pressure	develops 100 psi (7 bar)
Internal Diameter (I.D.)	1/2"
Fitting size	1/2" Male JIC

Model	A	B	C	Weight
SC-550-311-12	12" (304.8mm)	12.25" (311.2mm)	6.52" (165.6mm)	13 lbs (5.9kg)

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Accessories

60 MICRON STAINLESS STEEL
Filter Element

Filter	Element #
2000/5	00560S
2000/5/50	00560/50S
2000/10	01060S
2000/18	01860S
2000/40	04060S

30 MICRON
Filter Element

Filter	Element #
2000/5	00530
2000/5/50	00530/50
2000/10	01030
2000/18	01830
2000/40	04030

10 MICRON
Filter Element

Filter	Element #
2000/5	00510
2000/5/50	00510/50
2000/10	01010
2000/18	01810
2000/40	04010

WATER SENSORS

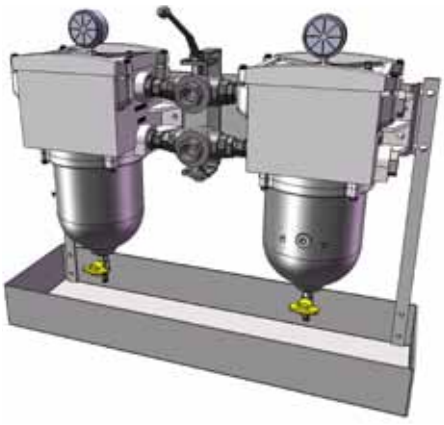
Shown: 10507-A

Sensor #	Description
10507-A	4 wire w/ assembly
10507	4 wire
10523-A	2 wire w/ assembly
10523	2 wire

VACUUM GAUGE

#30652

DRIP PANS



Filter: Single Unit	Drip Pan #
2000/5	KIT-DP-05
2000/5/50	KIT-DP-550
2000/10	KIT-DP-10
2000/18	KIT-DP-18

Filter: Duplex Unit	Drip Pan #
2000/5U	KIT-DP-05U
2000/5/50U	KIT-DP-550U
2000/10U	KIT-DP-10U
2000/18U	KIT-DP-18U

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Separ Filter Element Replacement Instructions

Prior to servicing the filters, ensure that the unit is OFF.

Step 1
Shut off the fuel supply valve and isolate unit before servicing the filter.

Step 2
Loosen the lid screws evenly.

Step 3
Remove the lid.

Step 4
Take out the spring cassette.

Step 5
Lift out filter element by the handle. Replace with new filter element and re-fit the spring cassette.

Step 6
Inspect lid gasket. Replace if necessary.

Step 7
Fit lid checking for correct positioning. Evenly tighten in the sequence shown.

Step 8
Open the fuel supply valve, prime fuel system and check for leaks.

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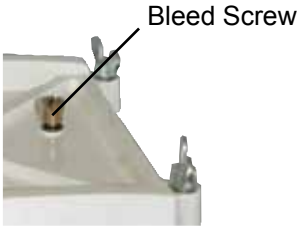
Separ Filter Backflushing Instructions

Prior to servicing the filters, ensure that the engine is OFF.
Backflushing is for particulate removal only and will not remove sludge once embedded in the filter media.

Step 1
Turn the system off and shut off the fuel supply valve.

Open the bleed screw located at top of filter lid by slightly unscrewing it.
This will break the vacuum in the filter allowing water and small particulates to be released from the filter element.



Step 2
Allow water and dirt to settle into bowl.
Large droplets of water and dirt will fall to the bottom of the bowl.

Step 3
PUSH in and turn counter-clockwise to open drain valve.

Step 4
Drain out the water and dirt that has accumulated in the bottom of the bowl.

Step 5
Close drain valve by pushing and turning clockwise.
Allow dirt and water to settle again.
As the fuel is drained out of the separator in step 4, more dirt and water will be flushed from the filter and will collect in the bottom of the bowl.

Step 6
If necessary, repeat step 4 and 5.
Open fuel supply valve.

Step 7
Prime the filter and close the bleed screw.

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