• Consistent quality
• Technical innovation
• Premier customer service

Parker Hannifin
Hydraulic Filter Division Europe
FDHB347UK.

Worldwide Sales and Service

Parker operates sales and service centres in major industrial areas worldwide. Call 1-800-C-PARKER for more product information in North and South America and 00800 27275374 for the European Product Information Centre (24 Hr).

Hydraulic, Lubrication & Coolant Filtration

High-performance filtration systems for production machinery in industrial, mobile and military/marine applications.

Compressed Air & Gas Filtration

Complete line of compressed air/gas filtration products; coalescing, particulate and adsorption filters in many applications in many industries.

Process & Chemical Fluid Filtration

Liquid filtration systems for beverage, chemical and food processing; cosmetic, paint, water treatment; photo-processing; and micro-chip fabrication.

Racor Fuel Conditioning & Filtration

Parker air, fuel and oil filtration systems provide quality protection for engines operating in any environment, anywhere in the world.

System Contamination Monitoring

On-line dynamic particle analysis, off-line bottle sampling and fluid analysis and measurement of water content polluting the oil in a system. All important and achievable, cost-effective solutions available to equipment manufacturers and end users alike.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale".

Photo courtesy of GLASBAU HAHN.

Photo courtesy of GLASBAU HAHN.

Photo courtesy of GLASBAU HAHN.
A range of cost saving solutions

Flowmeters & Monitors
Flowmeters & Monitors

LoFlow - Oil and Water Flowmeters

Features & Benefits

- Easy to read, permanent printed scales.
- Large scale definition for precise measurement.
- Easy panel mounting assembly.
- Negligible pressure drop characteristics.
- 10 bar pressure rating.
- Simple to use.

Specification

| Construction: | Body Grillon TR55. |
| Back body half | ABS 7020. |
| Ball retainer | ABS 7020. |
| Back panel | PVC. |
| Float | See below. |
| Maximum working pressure: | 10 bar. |

Maximum working temperature: 60°C.
Accuracy: ±2% typical.
Repeatability: ±1%.
Connections: ¼” and ¾” tapered threads.

Installation Details

Simple to fit, easy to use

The LoFlow meter has been designed for those industries where the need exists for a low cost solution to small measurements of flow with an accurate reading. LoFlow uses the well tried and tested principle of variable area flow measurement utilising the movement of a ball or float inside a calibrated tapered bore.

Typical Applications

- Pharmaceutical industry
- Filtration systems
- Hospital equipment
- For water applications
- Water treatment
- Photography and X-ray equipment
- Swimming pools

Installation Details

Outlet port R ¾

Inlet port R ¼ / R ½

4 off ‘push out’ fixing slots Ø6 X 8 LG

Ordering Information

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Media</th>
<th>Ports (BSPT male)</th>
<th>Flow range (l/min)</th>
<th>Float material</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF802412</td>
<td>LF-2020</td>
<td>Water</td>
<td>¾ - ¾</td>
<td>0.2 - 2.0</td>
<td>Acetal</td>
</tr>
<tr>
<td>LF802413</td>
<td>LF-2190</td>
<td>Water</td>
<td>¾ - ¾</td>
<td>2.0 - 10.0</td>
<td>SS/Steel</td>
</tr>
<tr>
<td>LF800414</td>
<td>LF-2201</td>
<td>Water</td>
<td>¾ - ¾</td>
<td>3.0 - 22.0</td>
<td>SS/Steel</td>
</tr>
<tr>
<td>LF801451</td>
<td>LF-1002</td>
<td>Oil</td>
<td>¾ - ¾</td>
<td>0.510 - 0.25</td>
<td>SS/Steel</td>
</tr>
<tr>
<td>LF802432</td>
<td>LF-1009</td>
<td>Oil</td>
<td>¾ - ¾</td>
<td>0.1 - 0.9</td>
<td>Acetal</td>
</tr>
<tr>
<td>LF802434</td>
<td>LF-1096</td>
<td>Oil</td>
<td>¾ - ¾</td>
<td>1.0 - 9.0</td>
<td>SS/Steel</td>
</tr>
<tr>
<td>LF801411</td>
<td>LF-2095</td>
<td>Water</td>
<td>¾ - ¾</td>
<td>3.06 - 1.50</td>
<td>SS/Steel</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Highlights Key (Denotes part number availability)

- Item is standard
- Item is standard green option
- Item is semi standard
- Item is non standard

Note: Standard items are in stock, semi standard items are available within four weeks.
Easiflow - Meters and Flowswitches

Features & Benefits

- Oil and water calibrated.
- Works in any plane.
- Pressures up to 10 bar.
- Flows from 1 to 150 l/min.
- Accuracy ±5% FSD.
- Repeatability ±1% FSD.
- Switches – fully adjustable flow rate signalling.
- Plant and equipment protection.

Easiflow Meters Specification

Construction:
- Cone: Acetal
- Viewing glass: Borosilicate glass
- Calibrated spring: Stainless steel
- Seal: Nitrile
- Body: Glass filled nylon

Maximum working pressure: 10 bar.
Minimum working pressure: 1 bar.
Temperature range: +5°C to +80°C - Oil
+5°C to +60°C - Water.

Flowrate: 1 to 150 l/min.
Viscosity range: 10 to 200 centistokes (oil).
Accuracy: ±5% FSD.
Repeatability: ±1% FSD.
Connections: 1" BSP parallel threads.
Weight: 0.4kg.

Oil and water calibrated.
Works in any plane.
Pressures up to 10 bar.
Flows from 1 to 150 l/min.
Accuracy ±5% FSD.
Repeatability ±1% FSD.
Switches – fully adjustable flow rate signalling.
Plant and equipment protection.

Flowswitch Specifications

The Easiflow switch is a flow measuring device incorporating an AC/DC switch suitable for controlling valves or pump motors or for activating alarm signals.

General flowmeter specification:
See material details opposite.

Switch type specifications:
Magnetically operated reed switch.

Electrical details:
- Voltage range: 300Vac/dc
- Maximum current: 2.5Amps
- Maximum load: 100W resistive, 70W inductive

Installation Details

Ordering Information

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Media</th>
<th>Flow range (l/min)</th>
<th>Switch range (l/min)</th>
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<tbody>
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<td>EFW.0302</td>
<td>Water</td>
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<td>5 - 15</td>
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<td>EF7731112220</td>
<td>EFW.0502</td>
<td>Water</td>
<td>4 - 50</td>
<td>5 - 30</td>
</tr>
<tr>
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<td>30 - 150</td>
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<tr>
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<td>EFL.0101</td>
<td>Oil</td>
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<td>5 - 15</td>
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<td>EFL.0301</td>
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<td>2 - 30</td>
<td>5 - 30</td>
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<td>EF7731110220</td>
<td>EFW.0152</td>
<td>Water</td>
<td>1 - 15</td>
<td>5 - 15</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Switch range (l/min)

<table>
<thead>
<tr>
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<th>Supersedes</th>
<th>Media</th>
<th>Flow range (l/min)</th>
<th>Switch range (l/min)</th>
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</thead>
<tbody>
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<td>EFW.03081</td>
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<td>5 - 30</td>
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<tr>
<td>EF7731111121</td>
<td>EFL.01081</td>
<td>Oil</td>
<td>1 - 15</td>
<td>5 - 15</td>
</tr>
<tr>
<td>EF7731111121</td>
<td>EFL.03081</td>
<td>Oil</td>
<td>2 - 30</td>
<td>5 - 30</td>
</tr>
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<td>EF7731112121</td>
<td>EFL.05081</td>
<td>Oil</td>
<td>4 - 50</td>
<td>10 - 50</td>
</tr>
<tr>
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<td>EFL.10081</td>
<td>Oil</td>
<td>5 - 100</td>
<td>20 - 100</td>
</tr>
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<td>EFW.02081</td>
<td>Water</td>
<td>4 - 50</td>
<td>10 - 50</td>
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<td>EF7731113221</td>
<td>EFW.10081</td>
<td>Water</td>
<td>5 - 100</td>
<td>20 - 100</td>
</tr>
<tr>
<td>EF7731114221</td>
<td>EFW.15081</td>
<td>Water</td>
<td>10 - 150</td>
<td>30 - 150</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Flowmeters & Monitors

Dataflow - 4 to 20mA and Pulse Output Flow Transmitters

Features & Benefits

- 4 to 20mA output.
- Pulse output available for totalising/batching.
- Works in any plane.
- Accepts reverse flow.
- Maximum flow 150 l/min.
- Negligible pressure drop.
- Pressures up to 10 bar.
- Low cost. Simple to install.
- For use with most liquids.
- Factory calibrated. Accuracy ±2%.
- DIN plug connector (included).

Specification

Construction:
- Borosilicate glass tube.
- Nitrile seals.
- Body – Glass filled nylon.
- Rotor and locater – Acetal.
- Washers and shaft – Stainless steel.
- Rotor tips – Stainless steel.

Max. working pressure: 10 bar oil/water.

Flow indication:
- Min: 2 l/min.
- Max: 150 l/min.
- Accepts reverse flow.

Accuracy:
- ±2% FSD.

Temp range:
- +5°C to +80°C oil.
- +5°C to +60°C water.

Connections: 1" BSP parallel threads.

Weight:
- 0.7Kg.

Calibration 4 to 20mA:
- 4mA = 0 l/min.
- 20mA = 100 l/min.

Calibration pulse output per litre:
- ‘K’ factors.
- Oil = 51.14
- Water = 44.25

Electrical details 4 to 20mA:
- Supply = 24Vdc.
- Pulse output:
  - Supply = 24Vdc.
  - (open collector transistor).

Digital Display Specification (DFT 990 only)

For indicator options please refer to MS150 section of the catalogue, reference DDU1001 and DDU1002 indicators.

4 to 20mA On-Site Calibration

Set your system to zero flow. Connect a multimeter across terminals 1 (+20mA) and 0 (0mA) (Dia. 2). Set the zero to read 4mA on your multimeter (Dia. 1). Set your system to full flow and set the span to read 20mA on your multimeter. (Dia. 1)

Note: Minimum span setting = 30 l/min

Installation Details

Ordering Information

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT980</td>
<td>DFT980</td>
<td>Dataflow “Pulse” output transmitter</td>
</tr>
<tr>
<td>DFT990</td>
<td>DFT990</td>
<td>Dataflow 4-20mA transmitter</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Dataflow 4-20mA transmitter can be connected to a Digital Display Unit (DDU1001 or DDU1002)

For indicator options please refer to MS150 section of the catalogue, reference DDU1001 and DDU1002 indicators.
Flowmeters & Monitors

Dataflow Compact - Inline Flow Transmitter

Features & Benefits

- Pulse output signal for flows up to 25 l/min.
- Lightweight and robust.
- Operates in any plane. Simple to install.
- Low cost flow measurement.
- Negligible pressure drop.
- Accepts reverse flow.
- 3/8 BSP male connection.
- Water or compatible clear fluids only.
- Ideal for washing machines, showers and vending machines.

Specification

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rotor</td>
<td>15% PTFE filled nylon.</td>
</tr>
<tr>
<td></td>
<td>Shaft</td>
<td>Stainless steel.</td>
</tr>
<tr>
<td></td>
<td>Shaft Retainers</td>
<td>Grilamid TR55.</td>
</tr>
<tr>
<td>Operation:</td>
<td>Infra-red.</td>
<td></td>
</tr>
<tr>
<td>Maximum working pressure:</td>
<td>20 bar.</td>
<td></td>
</tr>
<tr>
<td>Pressure drop:</td>
<td>Max 0.1 bar at 15 l/min.</td>
<td></td>
</tr>
<tr>
<td>Flow range:</td>
<td>1 to 25 l/min. (Accepts reverse flow).</td>
<td></td>
</tr>
<tr>
<td>Calibration:</td>
<td>‘K’ Factor 752 pulses per litre, typical.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subject to application.</td>
<td></td>
</tr>
<tr>
<td>Accuracy:</td>
<td>±2% typical.</td>
<td></td>
</tr>
</tbody>
</table>

Repeatability: ±1%.
Temperature range: +5°C to +70°C.
Overall dimensions: 52mm x 29mm x 27mm.
Weight: 16 grams.
Connections: 3/8 BSP.
Cable length: 300mm.
Power supply: 5 Vdc.
Output signal: 5 Vdc - square wave

Dataflow Compact – The Low Cost Transmitter

The Dataflow Compact Transmitter was designed to offer OEM’s and end users alike a means of monitoring low flows on liquids with an electronic output signal – but at LOW COST. Fluid passes through the one piece sensor body impacting on the twin vaned turbine rotor, causing it to rotate at a speed proportional to the flow rate. Two opposing photo-transistors are mounted either side of the rotor and externally of the clear sensor body, these generate a continuous signal.

As the rotor spins each blade obscures the infra red signal. This is then converted into an industry standard pulse output signal – compatible with inexpensive display units for flow rate, totalising, batch control and large, central control systems. The lightweight Grilamid body with its virtually unrestricted flow path, offers negligible pressure drop for flows up to 25 l/min and withstanding pressures up to 20 bar.

Flow Rate • Totalising • Batch Control and applications in many industries

Dataflow Compact Transmitters are small and very robust having been developed and tested extensively in industry applications where space is a restriction. Dataflow Compact with its Grilamid body and BSP connections can be installed almost anywhere and once installed will give accurate and reliable output signalling.

Installation Details

Red wire +6V supply
Green wire Output signal
Blue wire 0V supply

Power supply: 5 Vdc
Output signal: 5 Vdc - square wave

Ordering Information

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFC1000100</td>
<td>DFC.9000.100</td>
<td>Dataflow compact transmitter</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Flowmeters & Monitors

Flowline - Oil and Water Calibrated Flowmeters (Brass Version)

Features & Benefits

- Works in any plane.
- Pressure up to 350 bar (5000 psi).
- Flows up to 360 l/min.
- Accuracy ±5% FSD.
- Repeatability ±1% FSD.
- Direct reading.
- Relatively insensitive to viscosity changes.
- Oil or water calibrated.
- Optional reed switch upgrade.

Specification

Construction:
Brass body to BS 2874 CZ114.

Maximum working pressure:
Up to 350 bar.

Minimum working pressure:
1 bar.

Temperature range:
Brass: –20°C to +90°C.

Calibration:
Oil: Specific gravity 0.856 at 20°C.
Water: Specific gravity 1.0 at 20°C.

Viscosity range:
10 to 200 cSt (oil).

Accuracy:
±5% FSD.

Repeatability:
±1% FSD.

Min. scale reading:
10% FSD.

Connections:
BSP parallel threads.

Wetted/non-wetted parts:
Consult Parker for information.

Ordering Information - Oil

Note: To add an electrically operated reed switch to your flowmeter please order B26307.

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Parts</th>
<th>Flow range (l/min)</th>
<th>Maximum pressure (bar)</th>
<th>Dimensions (mm)</th>
<th>A (A/F Hex)</th>
<th>B (A/F Hex)</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight (kg)</th>
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<tbody>
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<td>FM26221212</td>
<td>FM.26 222 212</td>
<td>1/4</td>
<td>0.5 - 4.5</td>
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<td>32 29 19 123 7 32</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>FM26223121</td>
<td>FM.26 222 312</td>
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<td>1 - 9</td>
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<td>FM.26 222 112</td>
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<td>2 - 20</td>
<td>350</td>
<td>41 38 32 165.5 12.5 46</td>
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<td>FM.26 222 212</td>
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<td>5 - 46</td>
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<td>41 38 32 165.5 12.5 46</td>
<td>0.9</td>
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<td>FM26222312</td>
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</tbody>
</table>

Ordering Information - Water

For installation details for 1¼ flowmeters see next page.

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Parts</th>
<th>Flow range (l/min)</th>
<th>Maximum pressure (bar)</th>
<th>Dimensions (mm)</th>
<th>A (A/F Hex)</th>
<th>B (A/F Hex)</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>FM26221212</td>
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<td>1/4</td>
<td>2 - 20</td>
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<td>41 38 32 165.5 12.5 46</td>
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<td>58 46 43 190 15 58</td>
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<td>58 46 43 190 15 58</td>
<td>1.75</td>
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<td>FM.26 222 321</td>
<td>1/4</td>
<td>1 - 4.5</td>
<td>350</td>
<td>32 29 19 123 7 32</td>
<td>0.4</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>FM26222312</td>
<td>FM.26 222 232</td>
<td>1/4</td>
<td>5 - 46</td>
<td>350</td>
<td>32 29 19 123 7 32</td>
<td>0.4</td>
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<td></td>
<td></td>
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</tr>
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<tr>
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<td>210</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Flowline - Oil and Water Calibrated Flowmeters (Stainless Steel)

Features & Benefits

- For flow measurement of corrosive, chemical media or in harsh locations.
- Manufactured in stainless steel 316.
- Works in any plane.
- Pressure up to 350 bar (5000 psi).
- Flows up to 360 l/min.
- Accuracy ±5% FSD.
- Repeatability ±1% FSD.
- Direct reading.
- Oil or water calibrated.
- Optional reed switch upgrade.

### Standard products table - Oil

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Ports</th>
<th>Flow range (l/min)</th>
<th>Maximum pressure (bar)</th>
<th>A (A/F Hex)</th>
<th>B (A/F Hex)</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM26332312</td>
<td>FM.26 332 322</td>
<td>1/4  2 - 20</td>
<td>350</td>
<td>29</td>
<td>32</td>
<td>123</td>
<td>7</td>
<td>32</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FM26332222</td>
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<td>1/4  0.5 - 4.5</td>
<td>350</td>
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<td>350</td>
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<tr>
<td>FM26232222</td>
<td>FM.26 232 222</td>
<td>1/4  5 - 45</td>
<td>350</td>
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<td>123</td>
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<td>FM26231312</td>
<td>FM.26 231 322</td>
<td>1/4  5 - 45</td>
<td>350</td>
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</table>

### Standard products table - Water

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Ports</th>
<th>Flow range (l/min)</th>
<th>Maximum pressure (bar)</th>
<th>A (A/F Hex)</th>
<th>B (A/F Hex)</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
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<td>270</td>
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<td>FM.26 132 222</td>
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<td>350</td>
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<td>100</td>
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<td>0.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FM26131312</td>
<td>FM.26 131 322</td>
<td>1/4  40 - 360</td>
<td>350</td>
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<td>270</td>
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<td>7</td>
<td>32</td>
<td>0.4</td>
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</tr>
<tr>
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<td>FM.26 232 322</td>
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<td>350</td>
<td>5</td>
<td>40</td>
<td>200</td>
<td>7</td>
<td>32</td>
<td>0.4</td>
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</tr>
<tr>
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<td>FM.26 232 222</td>
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<td>350</td>
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<td>32</td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ordering Information - Oil

Ordering Information - Water

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Flowmeters & Monitors

Flowline - Flowswitches

Features & Benefits

- ‘Boxed’ two-switch type.
- Intrinsically safe versions.
- Maximum/minimum switching models.
- Maximum working pressure 350 bar (min 1 bar)
- Flows from 2.0 to 110 l/min.
- Stainless steel – suitable for corrosive media.
- Stainless steel to BS970 316S16.

Ordering Information

To order the required switching unit, simply add the appropriate prefix before the part numbers shown below.

### Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS643222112</td>
<td>FS643 222 112</td>
<td>2 switches, 2 - 20 l/min (1/2 BSP) Oil</td>
</tr>
<tr>
<td>FS643222212</td>
<td>FS643 222 212</td>
<td>2 switches, 5 - 46 l/min (1/2 BSP) Oil</td>
</tr>
<tr>
<td>FS643322112</td>
<td>FS643 322 112</td>
<td>2 switches, 5 - 55 l/min (3/4 BSP) Oil</td>
</tr>
<tr>
<td>FS643322212</td>
<td>FS643 322 212</td>
<td>2 switches, 10 - 110 l/min (3/4 BSP) Oil</td>
</tr>
</tbody>
</table>

### Product configurator

#### Brass flowswitch for oil or water

<table>
<thead>
<tr>
<th>Product number</th>
<th>Flow range and (port size)</th>
<th>Fluid type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS643</td>
<td>2 switches 2221</td>
<td>12 Oil</td>
</tr>
<tr>
<td>F367A</td>
<td>Intrinsically safe high switch 2222</td>
<td>22 Water</td>
</tr>
<tr>
<td>F367B</td>
<td>Intrinsically safe low switch 2221</td>
<td>22 Water</td>
</tr>
<tr>
<td>F367C</td>
<td>Intrinsically safe high switch 2222</td>
<td>22 Water</td>
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</tbody>
</table>

#### Stainless steel flowswitch for oil or water

<table>
<thead>
<tr>
<th>Product number</th>
<th>Flow range and (port size)</th>
<th>Fluid type</th>
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</thead>
<tbody>
<tr>
<td>FS643</td>
<td>2 switches 2321</td>
<td>12 Oil</td>
</tr>
<tr>
<td>F367A</td>
<td>Intrinsically safe high switch 2322</td>
<td>22 Water</td>
</tr>
<tr>
<td>F367B</td>
<td>Intrinsically safe low switch 2321</td>
<td>22 Water</td>
</tr>
<tr>
<td>F367C</td>
<td>Intrinsically safe high switch 2322</td>
<td>22 Water</td>
</tr>
</tbody>
</table>

### Ordering example

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supersedes</th>
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</thead>
<tbody>
<tr>
<td>FS643332212</td>
<td>FS643 332 212</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Flowmeters & Monitors

Hydraulic Test Equipment

Features & Benefits
- Speedy diagnosis of hydraulic circuit faults.
- Flows ranging from 2 to 360 l/min.
- Measuring flow, pressure and temperature.
- Fully Portable – No power source required.
- Hydrotrac unit for flows from 2 to 110 l/min available.
- Designed for oil applications only.

Specification

Flow range: 2 to 360 l/min.
Pressure range: 1 to 350 bar
Temperature range: 0°C to +90°C

Installation Details

Safety

An axial flow restrictor valve is fitted which can be adjusted under full load from open to fully closed, and to complete the specification, a safety blow-out disc, set to fail at 455 bar is fitted to the manifold in a position facing away from the operator when reading the gauges normally. Two spare blow-out discs are supplied which are easily replaced by removing the hexagonal plug on the gauge manifold.

Additional blow-out discs can be ordered - 41203B (Bag of 10)

Troubleshooting Test Units

Hydraulic Test Units are designed specifically for the speedy diagnosis of hydraulic circuit faults in mobile, marine and industrial systems using the normal range of mineral oils. Their rugged construction based mainly on mild steel, manganese bronze and acrylic materials makes them ideally suited for arduous use in the field.

Each unit is supplied in a convenient carrying case providing full protection and additional storage space for fittings. Because they need no power source such as batteries etc, they are always ready for instant use.

6 models are available to cover flow capacities up to 360 l/min and each incorporates a direct reading, uni-directional flow meter. The meter, which is both self cleaning and reasonably tolerant of contaminated fluids is coupled to a manifold that houses a glycerine-filled pressure gauge calibrated 0 to 350 bar and a dial-type thermometer with a 0°C to 100°C range. Unit can only operate up to 90°C.

For further convenience the scale on the flow meter can be rotated to ensure visibility in any situation and the installed attitude of the assembly is not critical, though whenever possible the unit should be mounted with pressure gauge vertical and gauge case relief valve uppermost. The unit is designed for flow to be in the direction of the arrow on the flowmeter scale and must not be installed with the flow reversed.

Ordering Information

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Flow range (l/min)</th>
<th>Weight Kg (with case)</th>
<th>Dimensions (mm)</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>4121</td>
<td>10 - 110</td>
<td>7.4</td>
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<tr>
<td>4120</td>
<td>5 - 55</td>
<td>7.4</td>
<td>46</td>
</tr>
<tr>
<td>4123</td>
<td>2 - 110</td>
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<td>75</td>
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<tr>
<td>4166</td>
<td>30 - 270</td>
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<tr>
<td>4170</td>
<td>40 - 360</td>
<td>13.85</td>
<td>75</td>
</tr>
</tbody>
</table>

Part number Supersedes Description
41203B  41203B, Safety blow-out discs x 10

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.
Note 3: 4123 “Hydrotrac” unit features 2 flowmeters (2 - 20 and 10 - 110 l/min) and 1 pressure gauge and 1 thermometer.
Flowmeters & Monitors

Flow Products - For Compressed Air Applications

Features & Benefits

Flowline Flowswitches and Flowmeters
- Calibrated for direct reading of compressed air at 7 bar.
- Works in any plane.
- Brass or stainless steel models available in 4 sizes.
- Calibrated at 7 bar and 20°C.
- Flow ranges from 2 to 600 SCFM.
- Pressure 1-41 bar max.
- Optional reed switch upgrade.

LoFlow Air Flowmeters
- Flow measurement from 1.1 to 720 l/min. Max 10 bar rating.

Compressed Air Test Equipment
- 6 models available – 1/4", 3/4" and 1 1/4" BSP.
- Air flow range 2 to 600 SCFM.
- Pressure 1-41 bar max.

Specification

Full technical specifications for the Flowmeter, Flowswitch, LoFlow and test equipment products are provided in the respective pages for these products.

Ordering Information

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.