# Accessories & Spare parts list

RDU 2.0

ICM-USBi
ICM-ETHi

ICM-FC1

SK0040

FLUID SAMPLING BOTTLES

PRESSURE & WASTE HOSES

444.053000

# ACCESSORIES & SPARE PARTS LIST

| Description (product types) | Ordering Code |
|---|---|
| Calibration Verification Fluid (requires use of Bottle Sampling device) | PCCF |
| **CMP Hydraulic connections / options:** | |
| M16x2 microbore pressure hose. plated steel. 600 mm (M versions) | 95.Y30Y30X261060 |
| M16x2 microbore pressure hose. plated steel. 1500 mm (M versions) | 95.Y30Y30X261150 |
| M16x2 microbore pressure hose. stainless steel. 600 mm (N versions) | 95.Y30Y30X161060 |
| M16x2 microbore pressure hose. stainless steel. 1500 mm (N versions) | 95.Y30Y30X161150 |
| Waste Hose (M versions). 2000 mm - Brass / FKM | SK0014S30 |
| Waste Hose (N versions). 2000 mm - Stainless Steel / FKM | SK0014S30N |
| Waste Hose (S versions). 2000 mm - Stainless Steel / FFKM | SK0014S30S |
| Offline Hose Assembly | 481,027000 |
| Pouch for pressure hose/waste hose | 7,106 |
| M16x2 M to F Coarse Screen Filter (M and N versions) | SK0040 |
| G1/4 F to F coarse screen filter (M/N/S versions) | 11,615 |
| M16x2 M to F Coarse Screen Filter (S versions) | SK0041 |
| Airbus adaptor with test point | SKAA02 |
| **Waste Bottle:** | |
| 1 Litre - Round | SK0012 |
| 1 Litre - Square (for use with CB0001) | SK0013 |
| **Communications:** | |
| Pre-wired 5 m cable | 11.445-05 |
| Pre-wired 10 m cable | 11.445-10 |
| 3 m twisted pair cable assembly | 11,112 |
| Serial cable to USB converter | SK0026 |
| PC Download cable | 6,123 |
| USB A-B cable | 11,081 |
| Bluetooth Portable Printer | 482,016000 |
| 1 m USB A to C Cable | 443,074000 |
| ICMKAZ2 to USBi conversion kit - not to be used in zoned areas | 11,645 |
| USB stick with all user guides | 13,055001 |
| **Offline sampling equipment:** | |
| Disposable Dip tubes - pack of 50 | BS0018 |
| Hand Pump (for use with 100 ml or P.0* bottles) | BS0020 |
| Hand Pump Hose - 1000 mm | BS0022 |
| Bottle Sampler hand pump and hose kit (for use with 100 ml or P.0* bottles) | BS0024 |
| 100 ml Standard Brown Glass Bottle | BS0016 |
| Tray of 72 x 100 ml Standard Brown Glass Bottles | BS0072 |
| 100 ml Clear Plastic Bottle | 7,111 |
| Box of 20 x 100 ml Clear Plastic Bottles | 7,112 |
| 250 ml Standard Clear Glass Bottle | 8,054 |
| Box of 20 x 250 ml Standard Clear Glass Bottles | 8.054-20 |
| 500 ml Standard Clear Glass Bottle | 8,328 |
| DIN/ISO5584/ISO3722 certiified clean. 100 ml clear glass bottle | P.02 |
| DIN/ISO5584/ISO3722 certiified clean. 100 ml clear glass bottle - Box of 25 | P.0225 |
| DIN/ISO5584/ISO3722 certiified clean. 250 ml clear glass bottle | P.03 |
| DIN/ISO5584/ISO3722 certiified clean. 250 ml clear glass bottle - Box of 25 | P.0320 |

MP FILTRI

| LPA2 | LPA3 | CML2 | CML3 | CML4 | ICM 4.0 | ICM 2.0 | ICS | ICM2.0AZ2 | ACMU | PIK | BS110 | BS500 | ICMUSBi |
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| LPA2 | LPA3 | CML2 | CML3 | CML4 | ICM 4.0 | ICM 2.0 | ICS | ICM2.0AZ2 | ACMU | PIK | BS110 | BS500 | ICMUSBi |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

# ACCESSORIES & SPARE PARTS LIST

| Description (product types) | Ordering Code |
|---|---|
| **Power Options:** | |
| 12V. 2A Power Adapter - UK/EU/US/CN/AUS | 6,209 |
| 19V. 3A Power Adapter | 61,034000 |
| 12V. 5A Power Adapter for 500 ml Bottle Sampler | 8,029 |
| UK Lead for 8.029 | 8,031 |
| EU Lead for 8.029 | 8,032 |
| US Lead for 8.029 | 8,030 |
| CN/AUS Lead for 8.029 | 8,072 |
| Microscope power adaptor | 444,033000 |
| **Other:** | |
| Thermal printer paper 57x33 mm | 63,083000 |
| Thermal paper roll 57x51 mm | 6,160 |
| LPA2 Aviation Edition travel case without foam | TC0005 |
| Replacement foam insert for TC0005 | 6,300 |
| Heavy-duty orange pelicase | 443.061E20 |
| Pelicase foam insert | 443,062020 |
| Self-adhesive patch test covers | 444,029001 |
| Patch test membranes - 1.2 micron filter | 444,010000 |
| Spray bottle | 444.018J10 |
| Stainless steel tweezers | 444,011120 |
| Waste bottle | 444.032J00 |
| Reuseable Nalgene filter assembly | 444,024000 |
| 0.01 mm Calibration slides | 444,025000 |
| Heavy Duty Travel Case for Bottle Sampler | TC00055B |
| Hose - 8 x 6 mm  Nalgene vacuum cable | 444,026000 |
| Hose - 6 x 4 mm  Hand pump sampling cable | 7,107 |
| Microscope camera - 1.3 MP | 444,016010 |
| Serial plate for patch imaging kit | 484,314000 |
| A5 document wallet | 444,027001 |
| Patch test report card | 444,028001 |
| Electric vacuum pump | 444,053000 |
| CML Carry Bag | 10,011 |
| LPA3 Carry Bag | 63,088000 |
| LPA2 Carry Bag | CB0001 |
| Black support case (without contents) | BS0040 |
| Heavy Duty Travel Case for Bottle Sampler | TC00055B |
| ICU / ICS Cable M12 4 pin 1.5 m | 13.061000 |
| Last chance filter disc - for 11.615/SK0040/SK0041 | 483.024000 |

| LPA2 | LPA3 | CML2 | CML3 | CML4 | ICM 4.0 | ICM 2.0 | ICS | ICMKAZ2 | ACMU | PIK | BS110 | BS500 | ICMUSBi |
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\*   Only if M16x2 test point are utilised for hydraulic connection
\*\*   Only for ICS Industrial version and ICU products

## Description

### Remote Display Unit

Depending on your application, access and visibility of particle counting equipment can sometimes be an issue. The ICM-RDU has specially been developed to dovetail with its parent ICM 2.0. So you have the option to control and monitor the ICM 2.0 remotely. Supplied with a 10m cable as standard.

### Features & Benefits

- Large backlit display
- Keypad interface
- Robust die-cast aluminium construction

### Scope of Supply

1 x ICMRDU2.0
1 x 10m Twisted Pair Cable Assembly
1 x Digital copy of user guides/software/drivers

### Status LED

All RDU 2.0 versions have a multicolour indicator on the front panel, which is used to indicate the status or alarm state. RDU-K versions also have a screen that changes colour. The alarm thresholds can be set from LPA-View via the serial interface.

### Screen and multicolor indicators

● Green indicates that the test result passed, i.e. none of the alarm thresholds were exceeded

● Yellow indicates that the lower cleanliness limit was exceeded, but not the upper one

● Red indicates that the upper clean liness limit was exceeded

● Blue indicates that the upper water content limit was exceeded

●● Red/Blue Alternating indicates both cleanliness and water content upper limits exceeded

● Violet indicates that the upper temperature limit was exceeded

Left facing view

Right facing view

Top view with USB port

Bottom view

## Dimensions

126.00

123.00

142

65.00

157

26.00
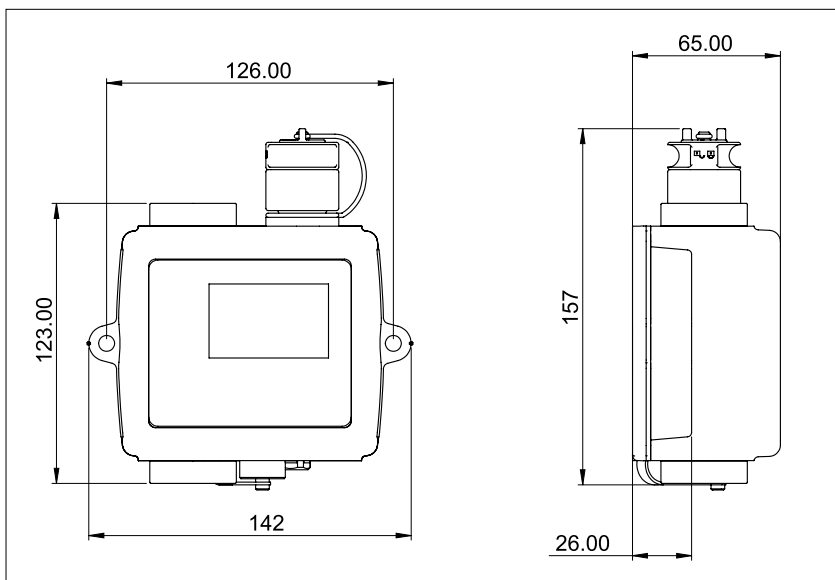
## Designation & Ordering code

| RDU 2.0 |
| --- |

Configuration: | ICM | RDU 2.0 |

### Description

**Electric Vacuum Pump**

MP Filtri's Patch Imaging Kit is available with an optional electric pump (spares number: 444.053000).
The pump is available with power options for the UK, EU, US, AUS/CN.

**Used with PIK**

## Designation & Ordering code

| 444.053000 |
|---|

Configuration:    444.053000

# ICM-FC1

## Description

**Flow Control Valve**

The FC1 is a pressure compensated flow control valve which can operate across a range of fluid types and is compatible with the ICM where flow rate exceeds operating parameters. Max pressure rating 400 bar at normal hydraulic system temperatures.

**Features & Benefits**

- Pressure compensated
- Regulates flow to within ICM specification
- Various connection options
- Viscosity independent
- Hexagonal form for ease of installation

## Dimensions

R13.3

**FLOW**

MP FILTRI FC1 - M - G1  (11.194)

10.5

16

122
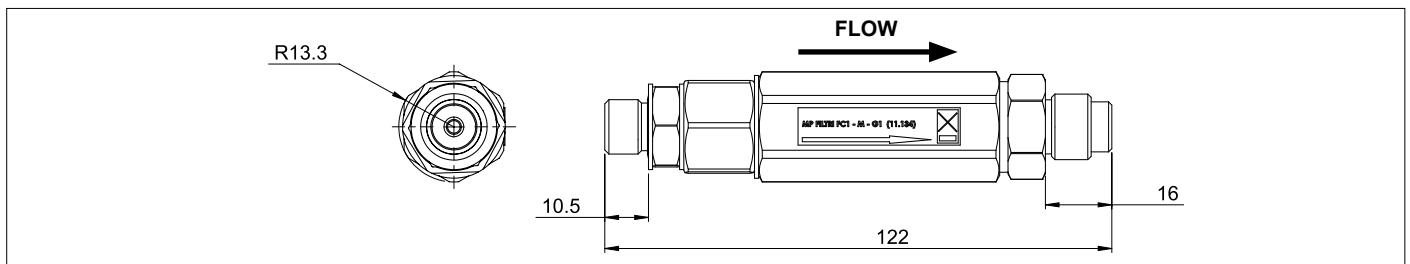
## Designation & Ordering code

| ICM-FC1 | | |
|---|---|---|
| **Series** | | |
| **ICM-FC1** | | |
| **Fluid compatibility** | | |
| M | Mineral oil | |
| N | Offshore fluids | |
| S | Phosphate ester | |
| **Connections** | | |
| G1 | ICM complete with M16x2 pressure test point connections fitted | |
| G3 | 1/4" BSP - Female port | |
| G4 | 7/16" UNF - Female port | |

Configuration example:   ICM-FC1   M   G1

## Description

**Auxiliary Communication Options**

We offer four auxiliary communication devices to operate with the ICM 2.0:

**ICM-USBi**:
Two auxiliary communication devices are available to order with the ICM.
A USB interface which allows for communication via a laptop (RS485 to RS232 converter) & an ethernet device for remote access via a network hub.

**ICM-ETHi**:
An ethernet device enables remote access via a network hub via Com Port redirection software.

Both devices can transmit power to the ICM/RDU electrical circuit using a DC power adapter.
The USBi has the additional benefit of supplying power via the USB cable directly. Both devices come with a DC Power adapter and 3m twisted pair cable as standard.



ICM-USBi



ICM-ETHi

**Features & Benefits**

- Compact
- Off the shelf solution
- Robust aluminium construction
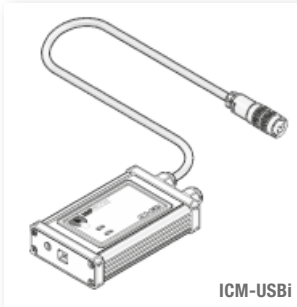
**Plug and play technology**

- Robust aluminium construction
- Compact
- Provided with a twisted cable conductors 8, length 3m.
- All devices can transmit power to the ICM/RDU electrical circuit using the supplied DC power adapter.

**ICM-USBi**



**ICM-ETHi**

Dimensions

## ICM-USBi



148
126
32
32
81

## ICM-ETHi



148
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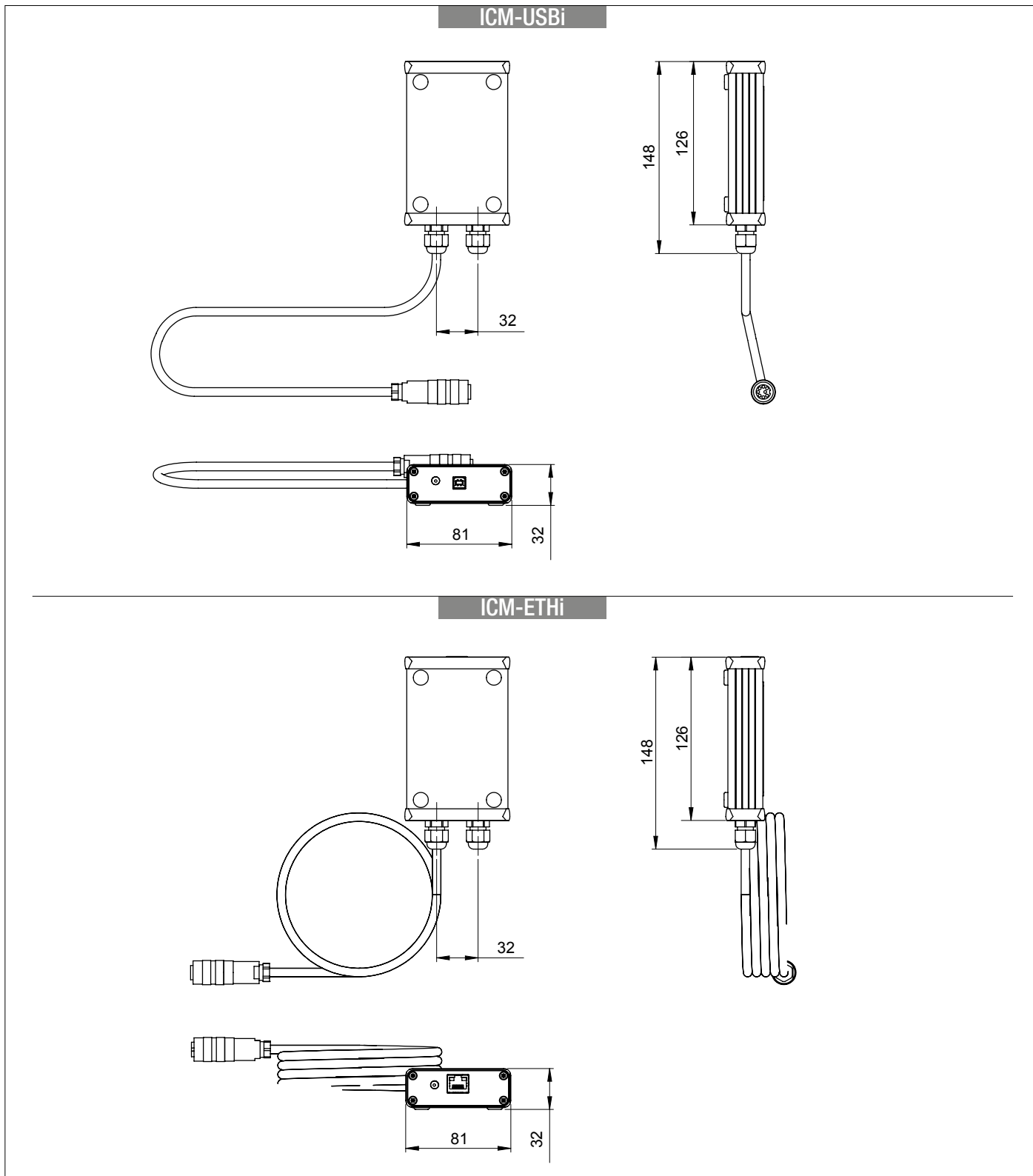
Designation & Ordering code

**ICM-USBi & ICM-ETHi**

Configuration: | ICM | USBi |
ICM | ETHi |

## Description

**Screen Filter**

The SK0040 coarse screen filter adapter is designed to limit the ingress of large particles into MP Filtri's range of Contamination Monitoring Products (CMP).
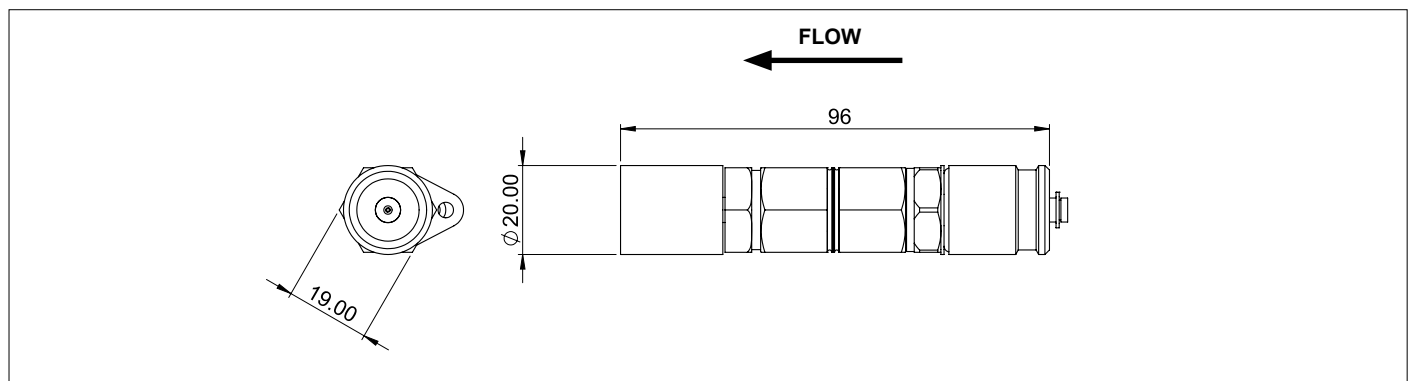
**Features & Benefits**

- Part number: SK0040
- Inlet connection: M16x2 male test point
- Outlet connection: M16x2 female thread form
- Pressure rating: 400 bar
- Mesh rating: 600 μm

**Used with**
**LPA3, LPA2, CML4, CML2, ICM4.0 and ICM 2.0**

## Dimensions

FLOW

96

Ø 20.00

19.00

## Designation & Ordering code

**SK0040 - SK0041**

Configuration: | SK0040 | In-line Coarse Screen Assembly: M & N version

| SK0041 | In-line Coarse Screen Assembly: S version

## Description

### Features & Benefits

We supply laboratory standard and certified clean sampling bottles.
100 ml, 210 ml and 500 ml bottle sizes are available and are
easily incorporated into our range of bottle samplers.

## Designation & Ordering code

**BS110 - BS500**

For ordering codes see "Tank Accessorie Catalogue" at page 86 for BS110 and page 90 for BS500.

# PRESSURE & WASTE HOSES

## Description

### Features & Benefits

Replacement hoses.

**Pressure Hose**
M16x2 Micro bore pressure hose by length (various available) long
Plated steel (alternative material options available)

Pressure hoses are able to connect MP Filtri products directly to your
hydraulic systems.

- LPA3
- LPA2
- CML4
- CML3
- CML2
- ICM 4.0
- ICM 2.0
- BS110 & BS500

**Waste Hose**
Length: 2000 mm
OD: 8 mm
ID: 5 mm
Standard material: Polyurethane*
Fitting type: Quick release coupling (brass as standard)

*Other versions available to suit the M, N and S versions of CMP

- LPA3
- LPA2
- CML4
- CML3
- CML2

# WORLDWIDE NETWORK

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**UNITED ARAB EMIRATES ⬥ UNITED KINGDOM ⬥ USA**

HQ
ITALY

**MP FILTRI**®

**PASSION TO PERFORM**

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