



## Filtration Unit OF7

### Description

The filtration unit OF7 is designed as a portable service unit for filling hydraulic systems, flushing small hydraulic systems and for offline filtration.

As an option, the OF7 can be ordered with the ContaminationSensor CS 1000. This makes it possible to simultaneously monitor the particle contamination in the oil. The cleanliness class is given according to ISO, SAE and NAS classifications.

### Applications

- Filtered or unfiltered filling of hydraulic systems
- Temporary offline filtration for hydraulic systems
- Filtered or unfiltered transfer of fluids

### Advantages

- Improvement in service life for both components and system filters
- Extension of oil lifetime
- Greater machine availability
- Simple operation
- Compact design
- Option: continuous monitoring of oil cleanliness during the cleaning process through the use of CS 1000 (OF7CM)
- Option: built-in protection against dry running and control cable for remote maintenance (OF7K)
- Option: version for viscosities up to 1000 mm<sup>2</sup>/s and 180 filter cartridge (OF7S90Px)

### Technical specifications

Max. flow rate	OF7S	15 l/min
	OF7K/OF7CM	10 l/min
Pump type	Vane pump	
Operating pressure	3.5 bar max	
Permitted suction pressure at suction port	-0.4 bar to +0.6 bar	
Viscosity range	OF7S10/OF7K10:	5 ... 350 mm <sup>2</sup> /s
	OF7CM:	5 ... 200 mm <sup>2</sup> /s
	OF7S90Px:	15 ... 1000 mm <sup>2</sup> /s
Permitted operating fluid	Mineral oil (DIN 51424)	
Fluid temperature	0 ... 80 °C	
Ambient temperature	-20 ... 40 °C	
Seals, gaskets	NBR	
Protection class	IP 54	
Power cable, length	2.8 m	
Length of hoses	2.5 m	
Hoses	Suction hose NW 20 with lance Pressure hose NW 16 with lance	
Weight	OF7S10/OF7K10	≈ 12.5 kg (empty)
	OF7S90Px/OF7CM	≈ 18.0 kg (empty)

### Recommended standard models

Filtration unit	Part No
OF7S10P1M1B03E	92 164
OF7S10P1M1B05E	92 161
OF7S10P1M1B10E	92 162
OF7S10P1M1P10E	92 165
OF7S10P1M1B20E	92 163

## Model code

**OF7 S 10 P 1 M 1 B 10 E /-C1**

### Basic type

OF7

### Model

S = standard

K = special model

CM = Fluid Condition Monitoring

### Type code

10 = standard

90<sup>(1)</sup> = special model

### Seals, gaskets

P = NBR (Perbunan)

### Pump type

#### Code

#### Nominal flow rate

#### Max.

#### viscosity

1<sup>(1)</sup>

15 l/min

350 mm<sup>2</sup>/s

2

10 l/min

200 mm<sup>2</sup>/s

X<sup>(1)</sup> other nominal flow rates on request

### Motor

D<sup>(1)</sup> = pneumatic motor

K = 1x 120 V 50 Hz, 0,18 kW

M = 1x 230 V 50 Hz, 0,18 kW

N<sup>(1)</sup> = 3x 380-420 V 50 Hz, 3x 440-480 V (60 Hz)

T = 12 V DC, 0,2 kW

U = 24 V DC, 0,2 kW

X<sup>(1)</sup> = other voltage on request

\* without on/off switch, cable or connector

### Filter size

1 = element 160 (spin-on cartridge)

2<sup>(1)</sup> = element 180 (spin-on cartridge)

### Filter material

B = Betamicron® (BN)

L = empty filter cartridge

P = paper (P)

### Filtration rating

03 = 3 µm BN

05 = 5 µm BN

10 = 10 µm BN, P

20 = 20 µm BN

### Clogging indicator

E = pressure gauge

### Supplementary details for model OF7CM

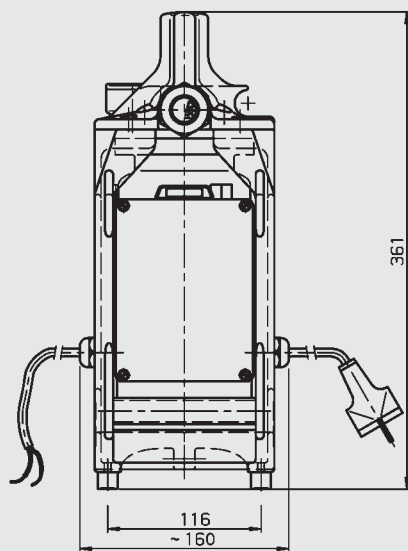
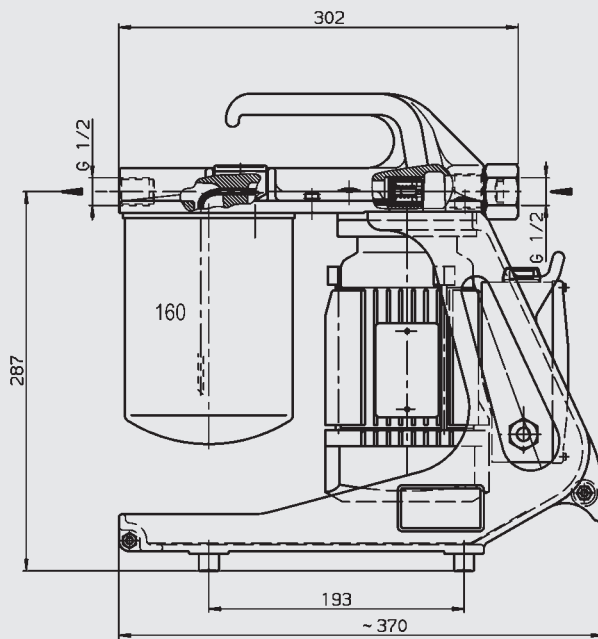
C1 = ContaminationSensor CS1320

Z = without ContaminationSensor

<sup>(1)</sup> Not possible for OF7CM version

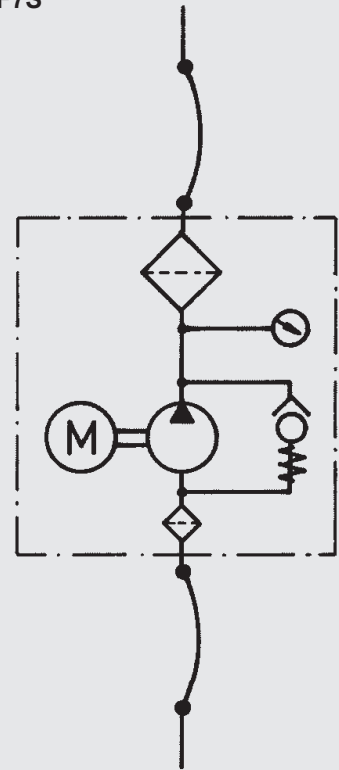
## Dimensions

OF7S10 / OF7K10

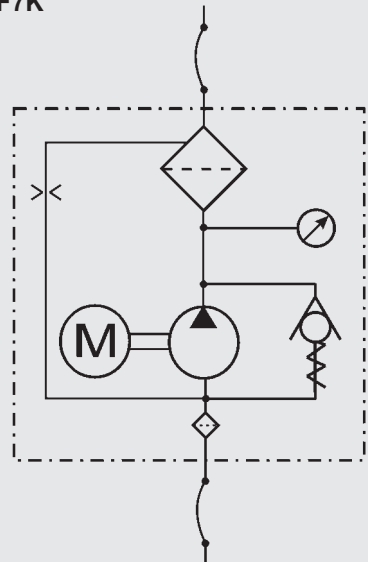


## Hydraulic circuit diagram

OF7S

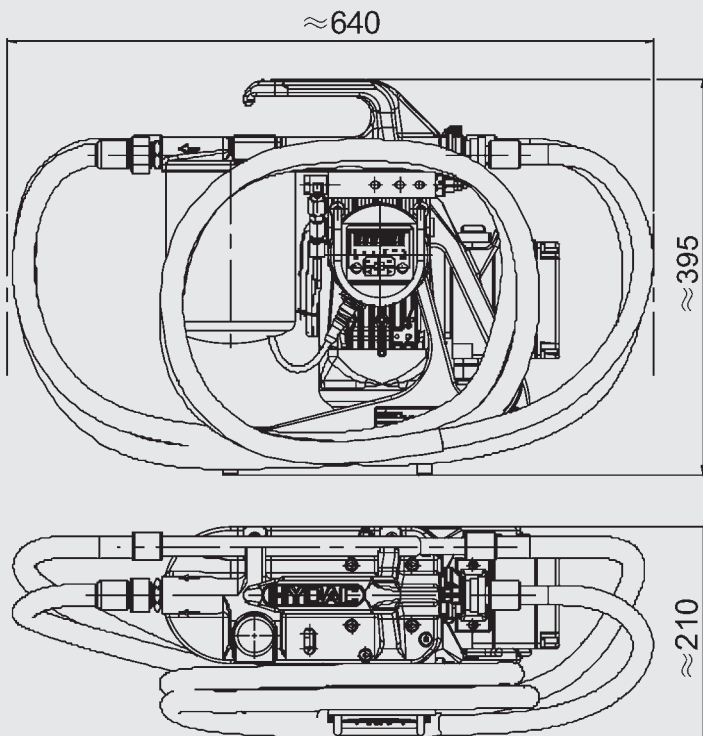


OF7K



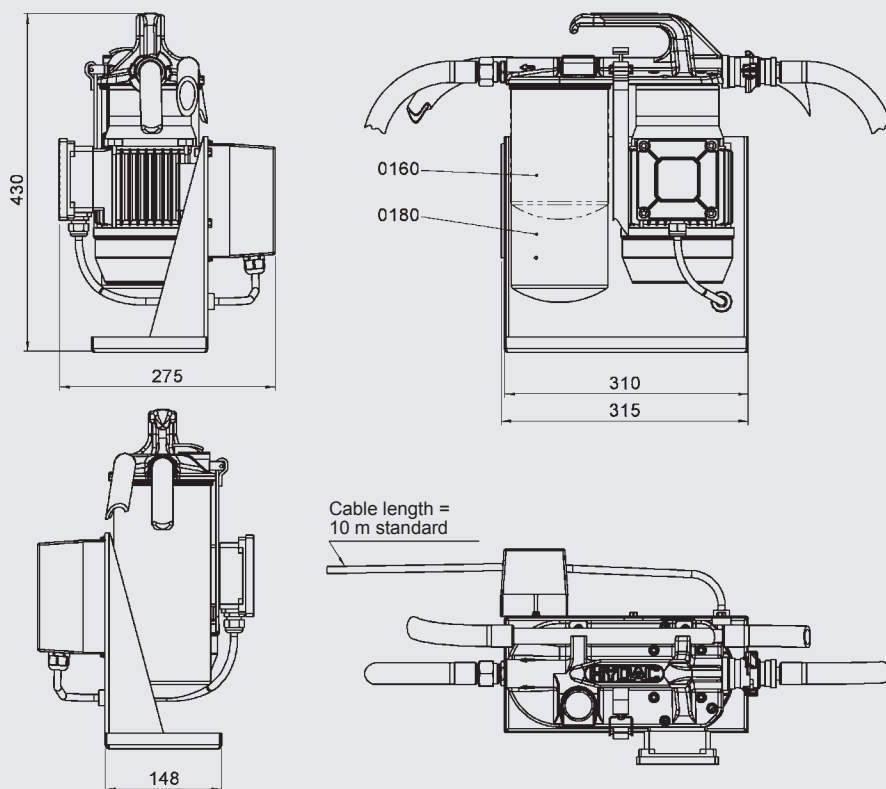
## Dimensions

OF7CM10



## Dimensions

OF7S90



## Note

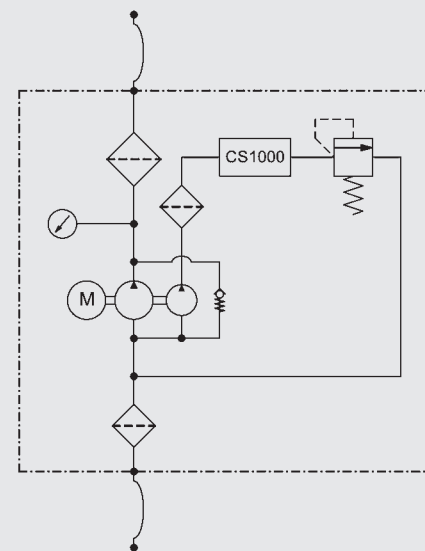
The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

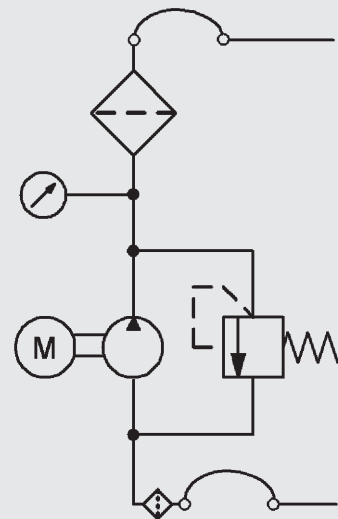
## Hydraulic circuit diagram

OF7CM



## Hydraulic circuit diagram

OF7S90



**HYDAC** FILTER SYSTEMS GMBH

Industriegebiet

D-66280 Sulzbach / Saar

Tel.: +49 (0) 6897/509-01

Fax: +49 (0) 6897/509-846

Internet: [www.hydac.com](http://www.hydac.com)

E-Mail: [filtersystems@hydac.com](mailto:filtersystems@hydac.com)