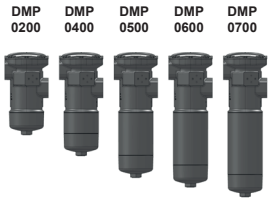
RT FILTER TECHNIK

Inline Filter DMP

Flow direction from in to out up to 500 l/min, up to 25 bar



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Design

This RT inline filter in cast design is built in five stages and is equipped with SAE flange ports, mounting plate for clogging indicators, mounts etc. Medium flows through the filter elements from inside to outside. This filter series is ideal for large flow rates in low-pressure lines or test bench applications.

The filter housings are designed in accordance with international regulations. They consist of a filter housing and cover. The element is top-removable.

Standard equipment

- Mounting holes in the housing
- Oil drain plug
- Integrated magnetic core
- With bypass valve
- Port for a clogging indicator

1.2 FILTER ELEMENTS

RT filter elements are validated and their quality is constantly monitored according to the following standards: ISO 2941, ISO 2942, ISO 2943, ISO 3968, ISO 11170, ISO 16889

Filter elements are available with the following pressure stability values:

Glass fibre (ULP):	6 bar
Glass fibre with pre-filter (UMC):	6 bar
Wire mesh (WPI):	6 bar

Other filter elements and filtration ratings on request.

1.3 FILTER SPECIFICATIONS

Nominal pressure	25 bar
Temperature range	-30 °C to +100 °C
Material of filter housing	Spheroidal graphite iron / aluminium
Material of cover	Aluminium
Type of clogging indicator	Differential pressure switch
Response pressure of clogging indicator	2 bar (others on request)
Bypass cracking pressure	3 bar (others on request)

1.4 SEALS

NBR (= Perbunan)

1.5 MOUNTING

Inline filter

1.6 SPECIAL MODELS AND ACCESSORIES

- No port for clogging indicator on filter housing
- Without magnetic core
- Seals in FKM

1.7 SPARE PARTS

See Original Spare Parts List

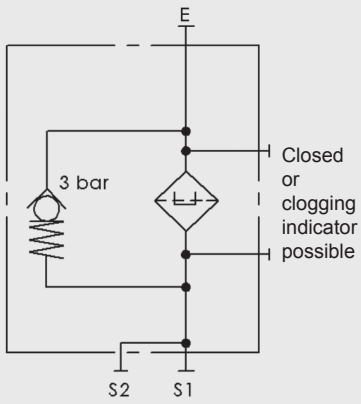
1.8 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- Hydraulic oils H to HLPD DIN 51524
- Lubrication oils DIN 51517, API, ACEA, DIN 51515, ISO 6743
- Compressor oils DIN 51506
- Biodegradable operating fluids VDMA 24568 HETG, HEES, HEPG

1.9 IMPORTANT INFORMATION

- Filter housings must be earthed
- When using electrical clogging indicators, the electrical power supply to the system must be switched off before removing the clogging indicator connector

Symbol



2. MODEL CODE (also order example)

DMP 0400 UMC 010 V M D FF 10 N VX X 1 /-XXX

2.1 FILTER ASSEMBLY

Filter type
DMP

Size
0200, 0400, 0500, 0600, 0700

Filter material

ULP	glass fibre
UMC	glass fibre with pre-filter
WPI	wire mesh

Filtration rating in µm

ULP	010, 025
UMC	010, 020
WPI	100

Bypass valve

V	with bypass valve
X	without bypass valve

Magnetic core

M	with magnetic core
X	without magnetic core

Setting range

D	25 bar

Type and size of port

Type	Port	Size of filter 0200	0400	0500	0600	0700
FF	G1 1/2	●	●	●	●	●
JJ	SAE 1 1/4"	●	●	●	●	●
KK	SAE 1 1/2"	●	●	●	●	●

others on request

Position of ports

10	Standard (clogging indicator on outlet side)

Seals

N	NBR (Perbunan)
V	FKM

Clogging indicator

VX	without clogging indicator
VG	mounting plate for external clogging indicator
VO	visual
VE	electrical
VA	visual/electrical

Response pressure of clogging indicator

A	1.8 bar
X	no clogging indicator

Modification number

X	the latest version is always supplied

Supplementary details

2.2 REPLACEMENT ELEMENT

UMC-0010-xxx-xxxx-x-N-RT /-XXX

Filter material
ULP, UMC, WPI

Filtration rating in µm
ULP 0010, 0025
UMC 0010, 0020
WPI 0100

RT code

Seals
N NBR (Perbunan)
V FKM

Packaging

Supplementary details

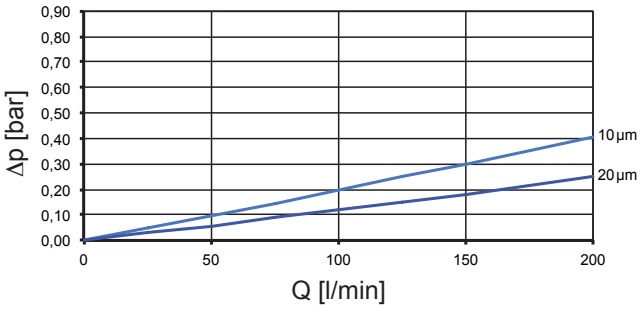
2.3 REPLACEMENT CLOGGING INDICATOR
(on request)

3. FILTER CALCULATION / DIMENSIONING

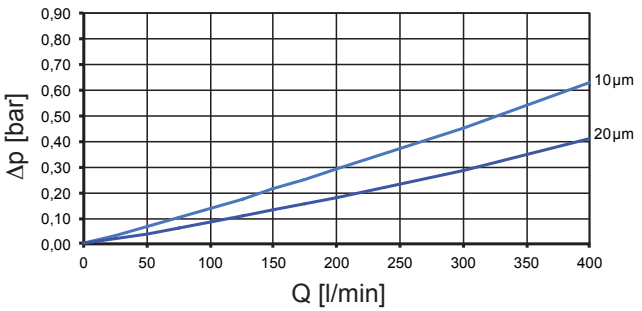
3.1 PERFORMANCE CURVES FOR FILTER ASSEMBLY

The total performance curves with UMC element apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30 mm²/s.

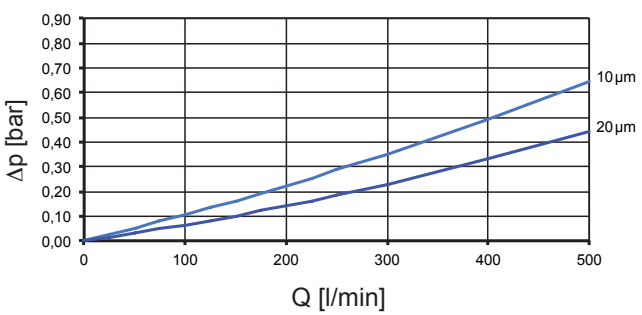
DMP 0200



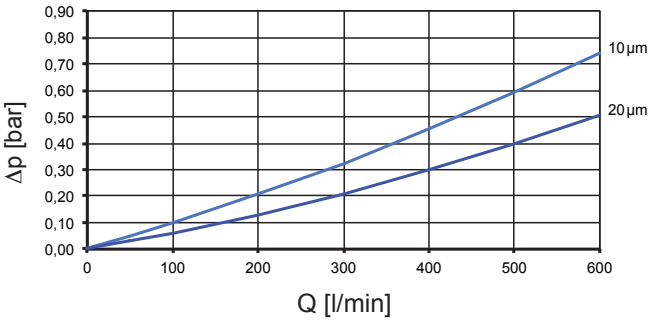
DMP 0400



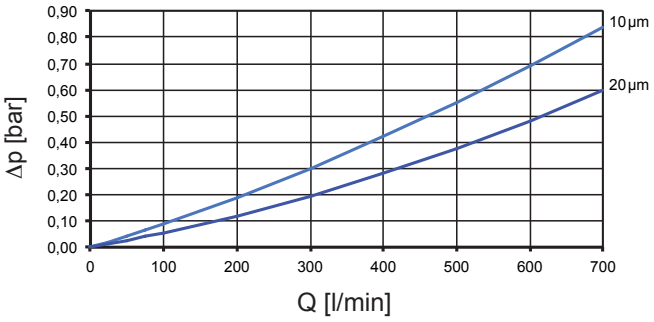
DMP 0500



DMP 0600

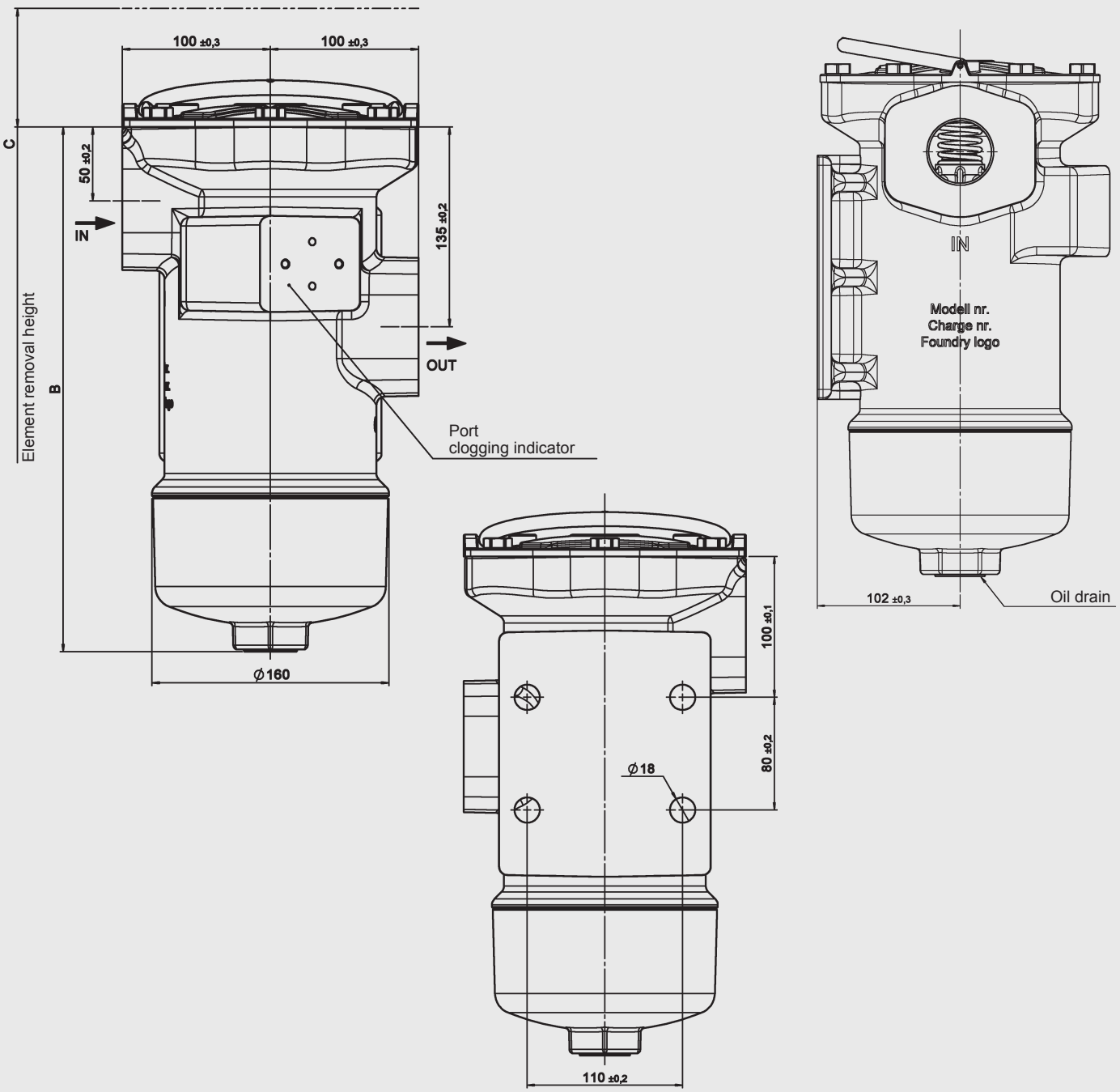


DMP 0700



4. DIMENSIONS

DMP



Type	B	C	Weight incl. element [kg]
DMP 0200	354.5	250	23
DMP 0400	452.5	350	25
DMP 0500	554.5	450	27
DMP 0600	599.5	500	29
DMP 0700	644.5	550	31

NOTE

The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
All technical details are subject to change without notice.