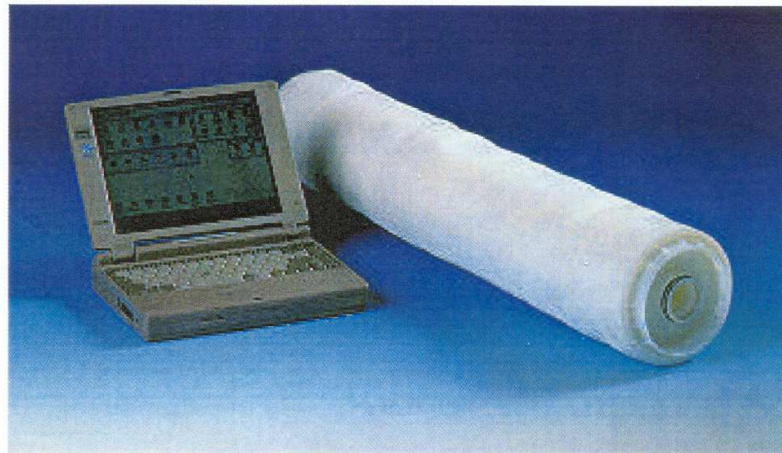


MicroDrop®

Nessie® 40" Filter

Preliminary

**Generally**

The filter cartridge is based on a radial fold technique, which increased the surface area and very high dirt capacity.

Benefits

- Increased flow rate.
- No pre filtration required.
- Long lifetime for highly contaminated water supply in open systems.

Code numbers

Filter type	Specification	Code number
743B	2 μm , $\beta = 100$	
744B	5 μm , $\beta = 100$	
745B	10 μm , $\beta = 100$	180X4171
Filter House	AISI 304	

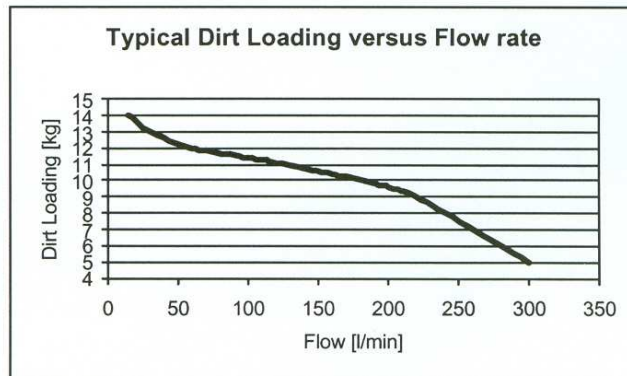
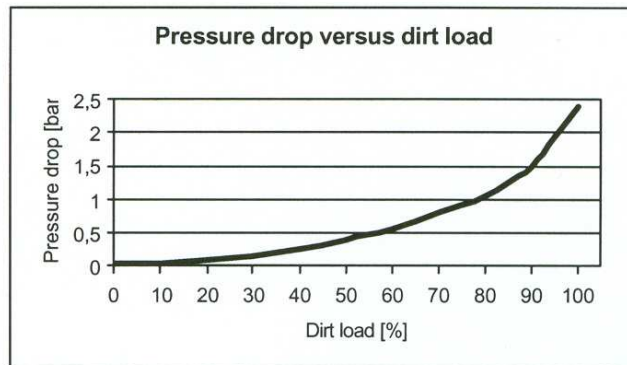
Limitations

- Because the β -value ($\beta = 100$) is lower than the standard specifications for our pump ($\beta = 5000$) a reduced lifetime is expected. On this basis it is recommended only to use the filter for Firefighting applications or applications with reduced operational time of the pump.

Technical data

Type	743B	744B	745B
99% filtration, $\beta = 100$	2 μm	5 μm	10 μm
Rate flow	150 l/min	150 l/min	150 l/min
Initial pressure drop at rated flow	0.08 bar	0.07 bar	0.03 bar
Maximum dirt capacity at rated flow	9.5 kg	10.0 kg	10.5 kg
Pressure drop at maximum dirt loading	2.4 bar	2.4 bar	2.4 bar
Maximum flow at reduced dirt capacity ¹⁾	300 l/min	300 l/min	300 l/min
Maximum pressure drop	3.0 bar	3.0 bar	3.0 bar
Maximum temperature	70 C	70 C	70 C

¹⁾ Reduced dirt capacity is 1/2 of maximum dirt capacity.



Dimensions

External diameter	166 mm
Length	995 mm
Internal diameter	39 mm
O-ring Diameter (external)	50.40 mm
O-ring Thickness	3.53 mm

**HIGH PRESSURE WATER MIST
COMPONENT DATA SHEET**

**Inlet Filter
Pump Unit Tank Infill High Pressure and
High Flow
Data Sheet Number – 07B**

**Issue Date
APRIL
2009**

**Page
3 of 3**

Filter house

- Material AISI 316 stainless steel
- G 1 ½" inlet and G2" outlet
-

