



Industrial Filters · Accumulators

### Benefits

#### Less pressure drop

For the selection of machines and systems smaller filter sizes may be chosen and therefore the production costs may be reduced.

#### Improved filter performance

The wear protection of components in machines and systems is improved.

#### Longer service time

Due to a better pressure drop filter service periods may be lengthened and therefore operating costs may be reduced when filters are replaced by the H-XL media.

#### Smaller initial pressure drop

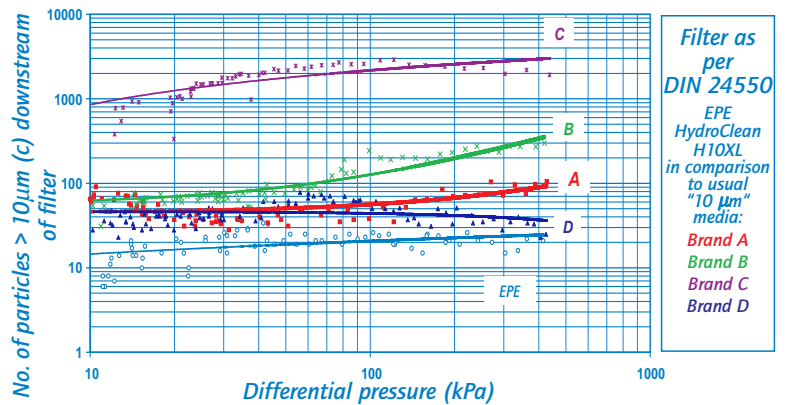
Due to the smaller initial pressure drop of **H-XL**, existing systems may be operated with finer filters. Fluid cleanliness and wear protection will be improved.

## New Filter Media HydroClean H-XL

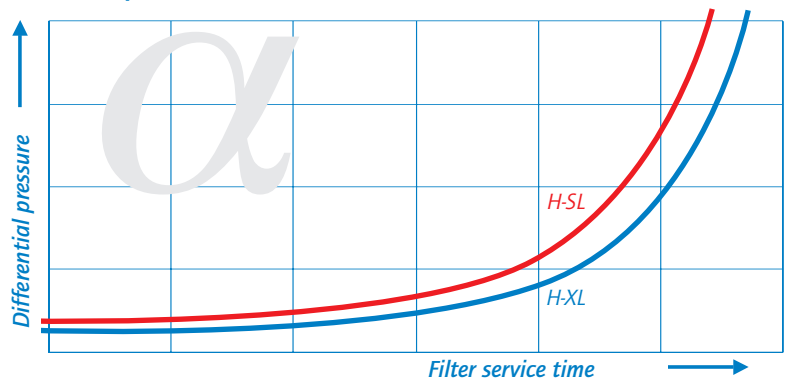
### Pressure drop of **HydroClean H-XL** in comparison to previous H-SL filter media

<b>H1XL</b>	60 %	smaller than H1SL
<b>H3XL</b>	20 %	smaller than H3SL
<b>H6XL</b>	30 %	smaller than H6SL
<b>H10XL</b>	10 %	smaller than H10SL
<b>H20XL</b>	15 %	smaller than H20SL

### Filter performance of **HydroClean H-XL** **H10XL: Particles >10µm downstream\***



### Filter service time of **HydroClean H-XL** in comparison to H-SL filter media



Example: Hydraulic system with filter element in H10SL-media, initial pressure = **1,0 bar**

Installation of a **finer** filter element:

With: **H6SL**-media: initial- $\Delta p = 1,5 \text{ bar}$

With: **H6XL**-media: initial- $\Delta p = 1,1 \text{ bar}$



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Filter characteristics

**Filtration grade H-XL**

Filtration ratio  
 $\beta_{x(c)}$ -ISO 16889

**Filter performance**

**Example: H10XL**

Filtration ratio /  
 particle size -  
 ISO 16889

**Filter performance**

**Example: H10XL**

Filtration ratio  
 for particles > 10 $\mu$ m

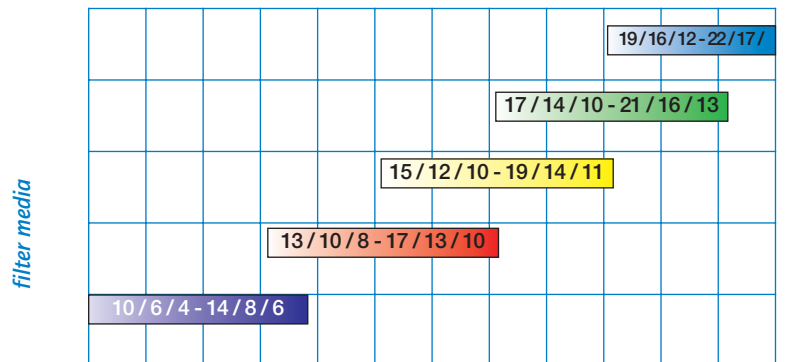
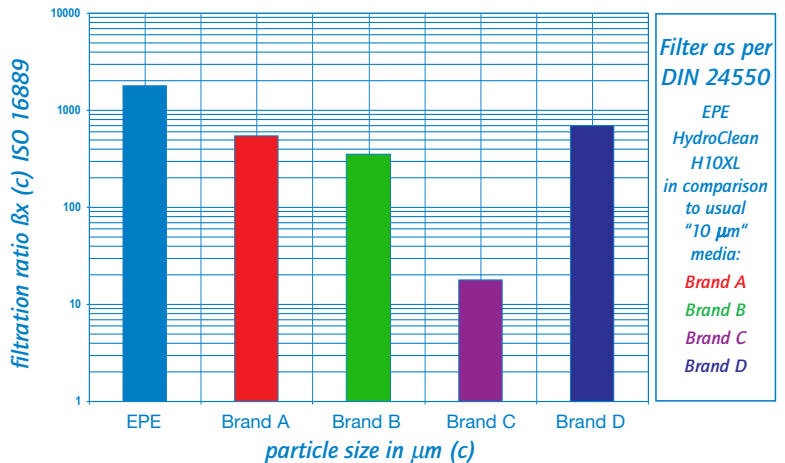
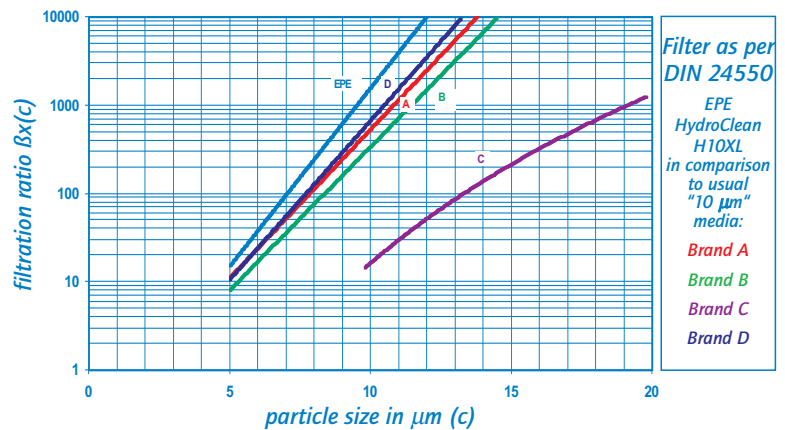
**Filtration grade and oil cleanliness H-XL**

Achievable oil cleanliness  
 as per ISO 4406\*

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**New Filter Media**  
**HydroClean H-XL**

type	particle size for filtration ratio $\beta_{x(c)} > 200$ , DIN 24550	particle size for filtration ratio $\beta_{x(c)} > 1000$
H1XL	< 4 $\mu$ m (c)	< 4 $\mu$ m (c)
H3XL	4,5 $\mu$ m (c)	5 $\mu$ m (c)
H6XL	5,5 $\mu$ m (c)	7,5 $\mu$ m (c)
H10XL	7,5 $\mu$ m (c)	9,5 $\mu$ m (c)
H20XL	20 $\mu$ m (c)	22 $\mu$ m (c)



Achievable oil cleanliness as per ISO 4406

\* Optimal, constan filtration conditions and matched concept for air breather filtration supposed