



Filters . Accumulators

New Filter Media HydroClean H-XL

Benefits

Less pressure drop

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

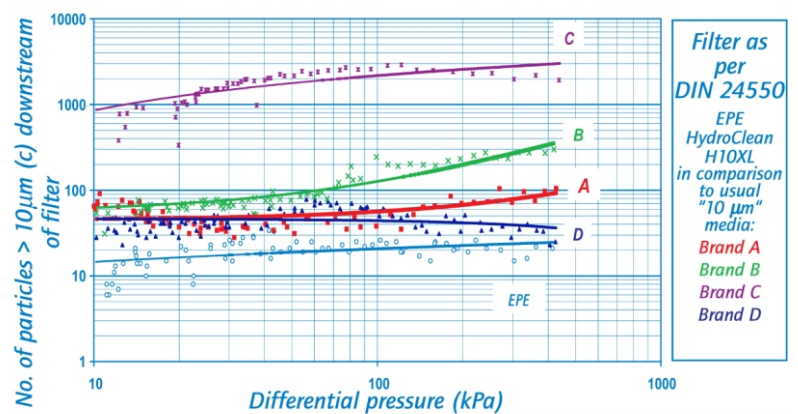
Smaller initial pressure drop

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.

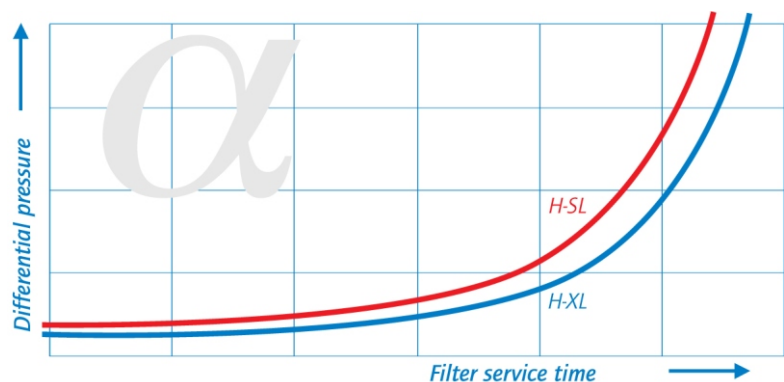
Pressure drop of **HydroClean H-XL** in comparison to previous H-SL filter media

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

Filter performance of **HydroClean H-XL H10XL**: Particles > 10 µm 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- $\Delta p = 1,0$ bar

Installation of a **finer** filter element:

With: H6SL-media: initial- $\Delta p = 1,5$ bar

With: **H6XL**-media: initial- $\Delta p = 1,1$ 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 μ m

Filtration grade and oil cleanliness H-XL

Achievable oil cleanliness
as per ISO 4406*

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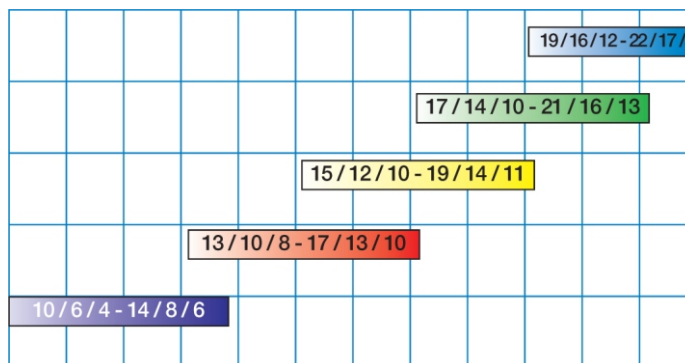
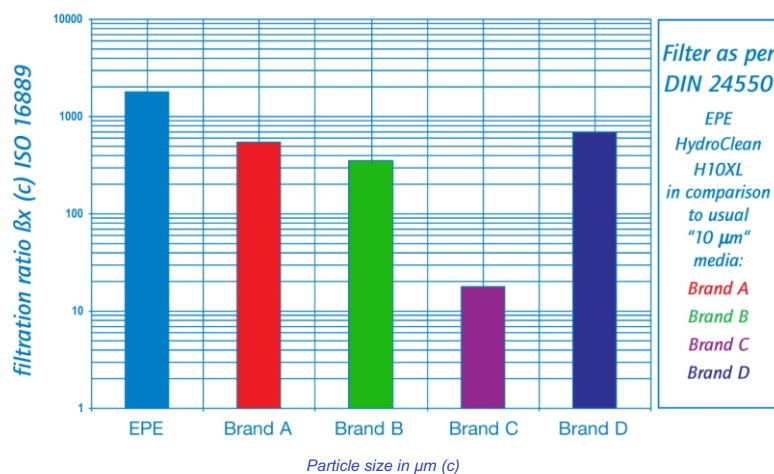
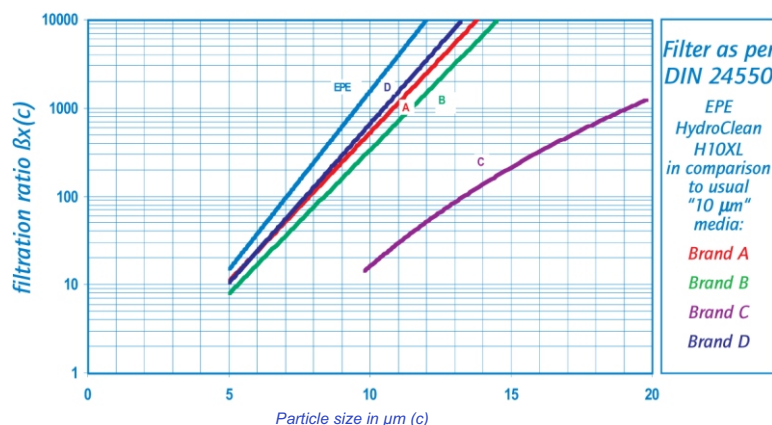
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Type	Particle size for filtration ratio $\beta_{x(c)} > 200$, DIN 24550	Particle size for filtration ratio $\beta_{x(c)} > 1000$
H1XL	<4 μ m (c)	<4 μ m (c)
H3XL	4,5 μ m (c)	5 μ m (c)
H6XL	5,5 μ m (c)	7,5 μ m (c)
H10XL	7,5 μ m (c)	9,5 μ m (c)
H20XL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



Achievable oil cleanliness as per ISO 4406

* Optimal, constant Filtration conditions and matched concept for air breather filtration supposed