

PHHE Series

● DESCRIPTION

Return filter

Connection type and size:

Threaded connection: 1/2" 3/4" 1" 1-1/4" 1-1/2" 2" 2-1/2"

SAE Flange connection: 1-1/4" 1-1/2" 2" 2-1/2"

Maximum flow rate up to 2100 l/min

● TECHNICAL PARAMETER

Maximum working pressure: 10 bar

Bypass valve opening pressure: 2.5 bar

Transmitter opening pressure: 2.0 bar

Temperature range: -25 to +110

● MATERIALS

Head: Cast aluminium

Filter bowl: Tinned Steel

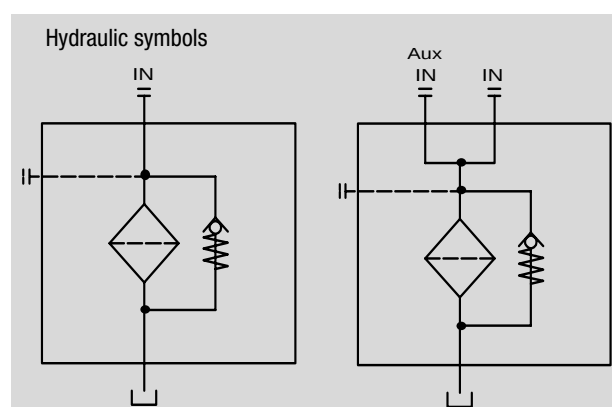
Seals: NBR nitrile rubber (standard)

Or FKM fluororubber (customizable)

Filter element material: Fiberglass



Highforce P



● MEDIA COMPATIBILITY

Suitable for mineral oil, lubricating oil, fire-resistant oil, and rapidly biodegradable media.
(If used for water-based or special media, please consult our sales department.)

Weights [kg] and volumes [dm³]

a)

Filter series	Weights [kg]					Volumes [dm ³]				
	Length 1	2	3	4	5	Length 1	2	3	4	5
PHHE 250	3.60	3.90	4.20	5.60	-	4.40	4.40	5.40	8.00	-
PHHE 630	6.50	7.00	7.40	8.50	10.50	7.30	9.00	11.00	13.00	19.20

FILTER ASSEMBLY SIZING

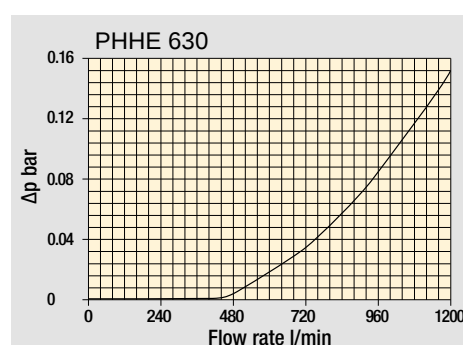
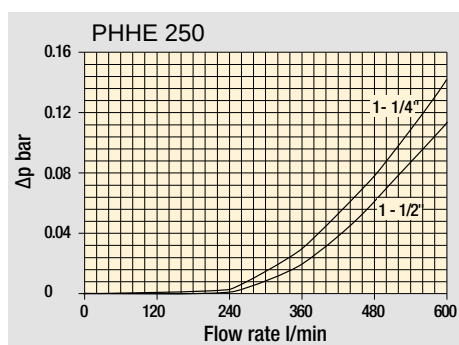
Flow rates (l/min)

Filter series	Length	Filter element design - F series					Filter element design - W series		
		F03	F05	F10	F20	F30	M25	M60	M90
PHHE 250	1	93	102	210	251	315	339	383	1093
	2	124	151	327	412	421	460	514	1122
	3	189	221	418	445	500	544	616	1137
	4	261	304	592	670	766	832	923	1166
PHHE 630	1	160	200	369	423	518	565	632	1894
	2	240	257	571	611	1045	1137	1285	1929
	3	330	374	745	788	1308	1416	1577	1938
	4	374	403	887	1010	1348	1448	1612	1956
	5	625	698	1210	1257	1723	1839	1929	2121

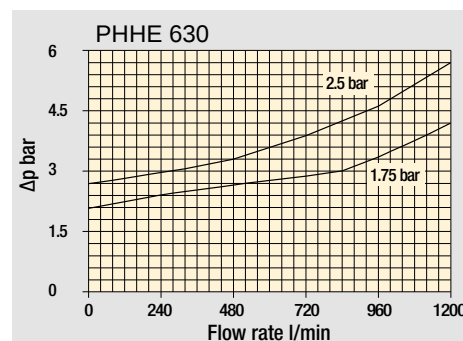
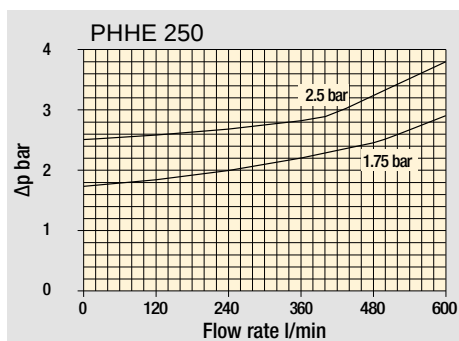
Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ bar.

The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968 Δp varies proportionally with density.

Filter housings Δp pressure drop


Bypass valve pressure drop



Ordering Options Table

	PHHE	250	4	F2	F	10	N	A	E																															
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F: 03 05 10 20 30 W: 25 60 90																																								
Seals																																								
N: NBR V: FKM																																								
Differential pressure transmitter																																								
A: Steel blanking plug in indicator port E: Vacuum gauge indicator BM: Visual (Automatic reset) B: Visual (Automatic reset) CM: Electrical indicator C: Electrical indicator CL: Visual and electrical indicators																																								
Bypass valve opening pressure																																								
B = 1.75 bar E = 3 bar																																								

Filter Element

PYHE2504F10N

Filter element type

Filter element specification

Length

Filter element material

Filter fineness(μm)

Seals

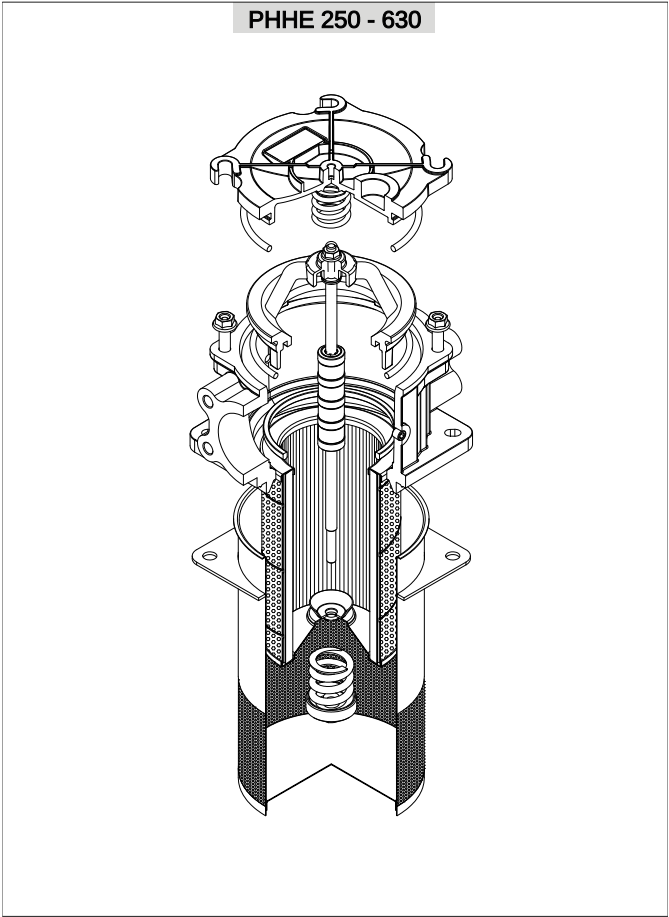
250630

12345

F: Fiberglass
W: Stainless steel wire mesh

F: 0305102030
W: 256090

N: NBR V: FKM



DIMENSIONS

