

PHZS Series

● DESCRIPTION

Medium pressure line filter

Connection type and size:

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

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

Maximum flow rate up to 780 l/min

● TECHNICAL PARAMETER

Maximum working pressure: 60 bar

Bypass valve opening pressure: 3.5 bar

Transmitter opening pressure: 2.5 bar

Temperature range: -25°C to +110°C

● MATERIALS

Head: Cast iron

Filter bowl: Carbon steel

Seals: NBR nitrile rubber (standard)

Or FKM fluororubber (customizable)

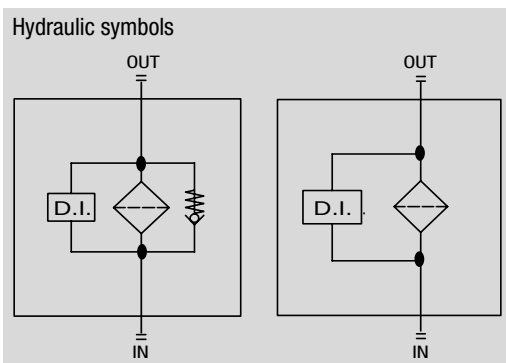
Filter element material: Fiberglass



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]

Filter series	Weights [kg]							olumes [dm³]						
	Length	1	2	3	4	5	6	Length	1	2	3	4	5	6
PHZS 210-211		3.10	4.80	6.40					1.60	2.10	2.80			
PHZS 400-401			7.20	8.10	8.80	11.90	14.40			3.50	5.00	6.50	9.50	13.50

FILTER ASSEMBLY SIZING

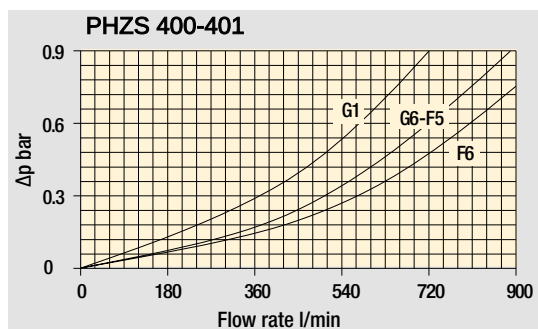
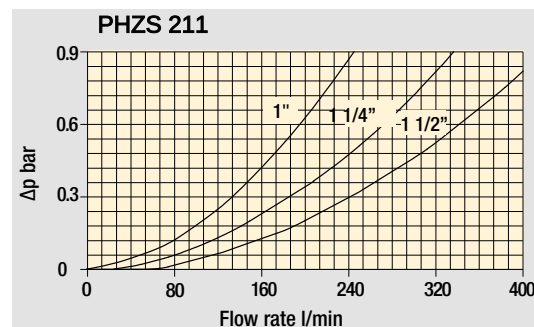
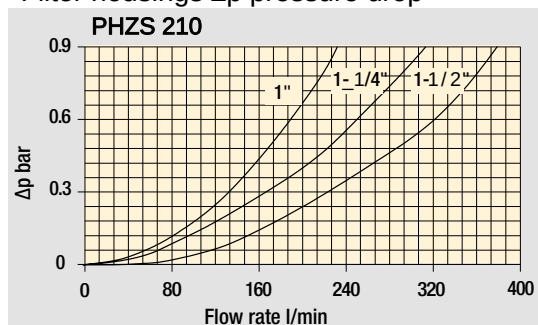
Flow rates (l/min)

Filter series	Length	Filter element design - F series					Filter element design - W series			
		F03	F05	F10	F20	F30	W25	W60	W90	W250
PHZS 210	1	106	130	190	200	221	286	287	287	288
	2	153	175	220	237	249	288	289	290	290
	3	204	214	248	260	265	289	290	291	291
PHZS 211	1	118	149	227	240	269	358	359	360	361
	2	178	207	268	292	307	361	362	363	364
	3	247	260	306	323	329	362	363	364	365
PHZS 400	2	205	244	370	411	515	524	556	556	720
	3	280	333	474	515	602	637	660	660	760
	4	347	400	535	564	637	660	688	688	769
	5	459	501	610	660	717	700	721	721	781
	6	504	575	676	689	728	708	727	727	783
PHZS 401	2	200	236	347	382	468	475	501	501	628
	3	268	315	434	468	537	565	582	582	659
	4	328	373	484	507	565	582	603	603	665
	5	423	456	544	582	626	613	629	629	674
	6	459	516	594	604	634	619	633	633	676

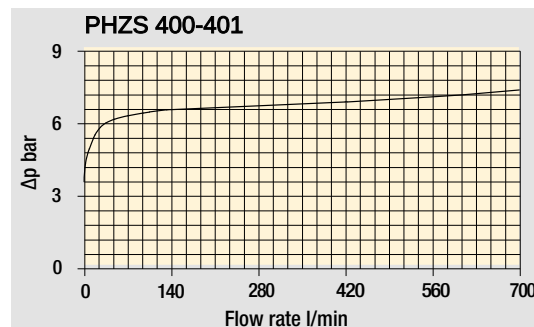
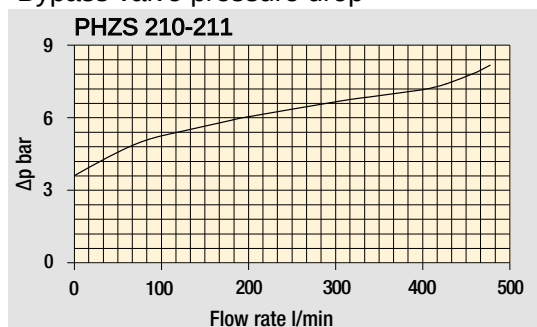
Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.7$ bar.

The reference fluid has a kinematic viscosity of $30 \text{ mm}^2/\text{s}$ (cSt) and a density of $0.86 \text{ kg}/\text{dm}^3$.

Filter housings Δp pressure drop



Bypass valve pressure drop



The curves are plotted using mineral oil with density of $0.86 \text{ kg}/\text{dm}^3$ in compliance with ISO 3968 Δp varies proportionally with density.

Ordering Options Table

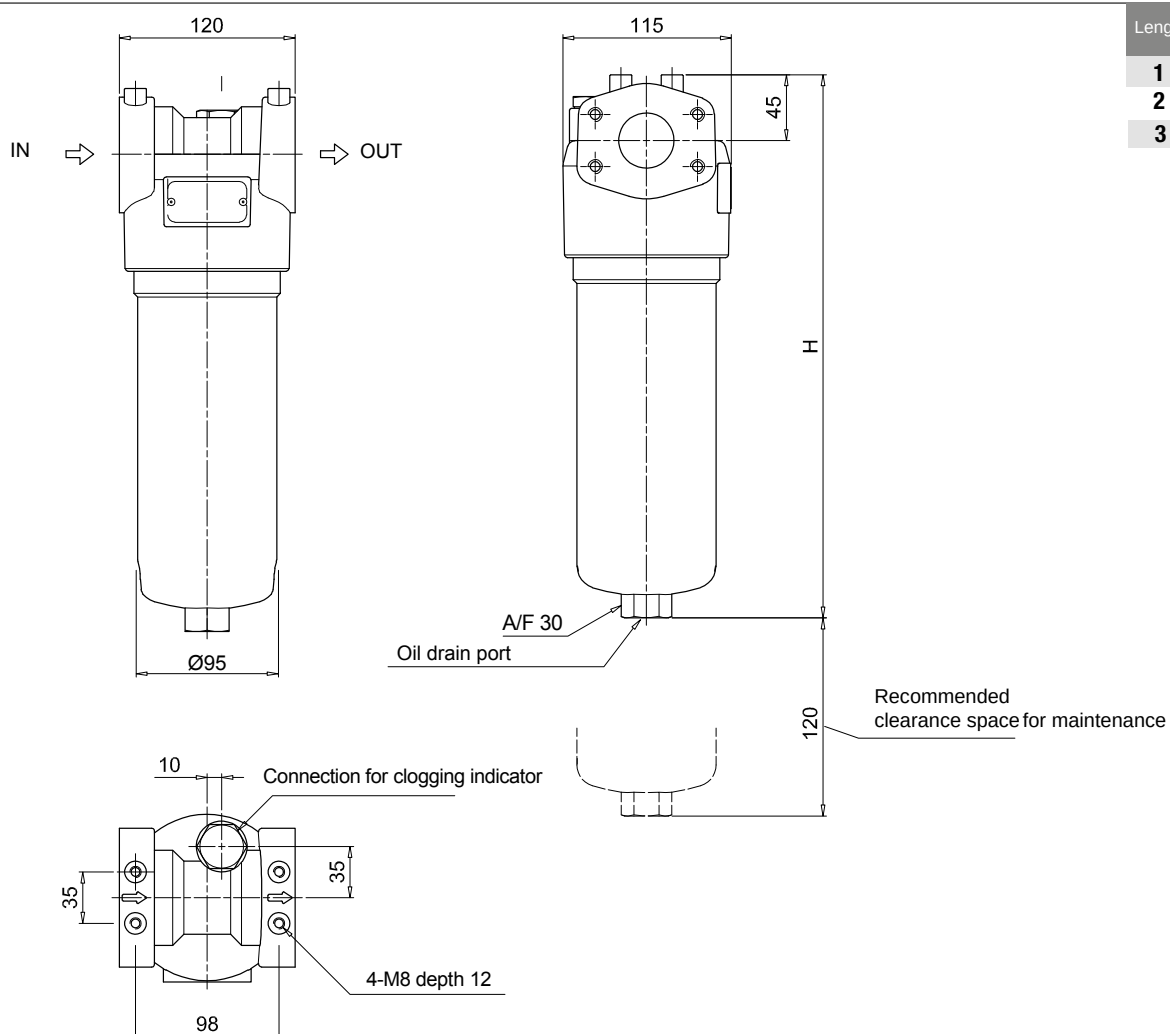
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Filter Element

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Length						
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W:Stainless steel wire mesh						
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W: 25 60 90						
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DIMENSIONS

PHZS210



Ordering Options Table

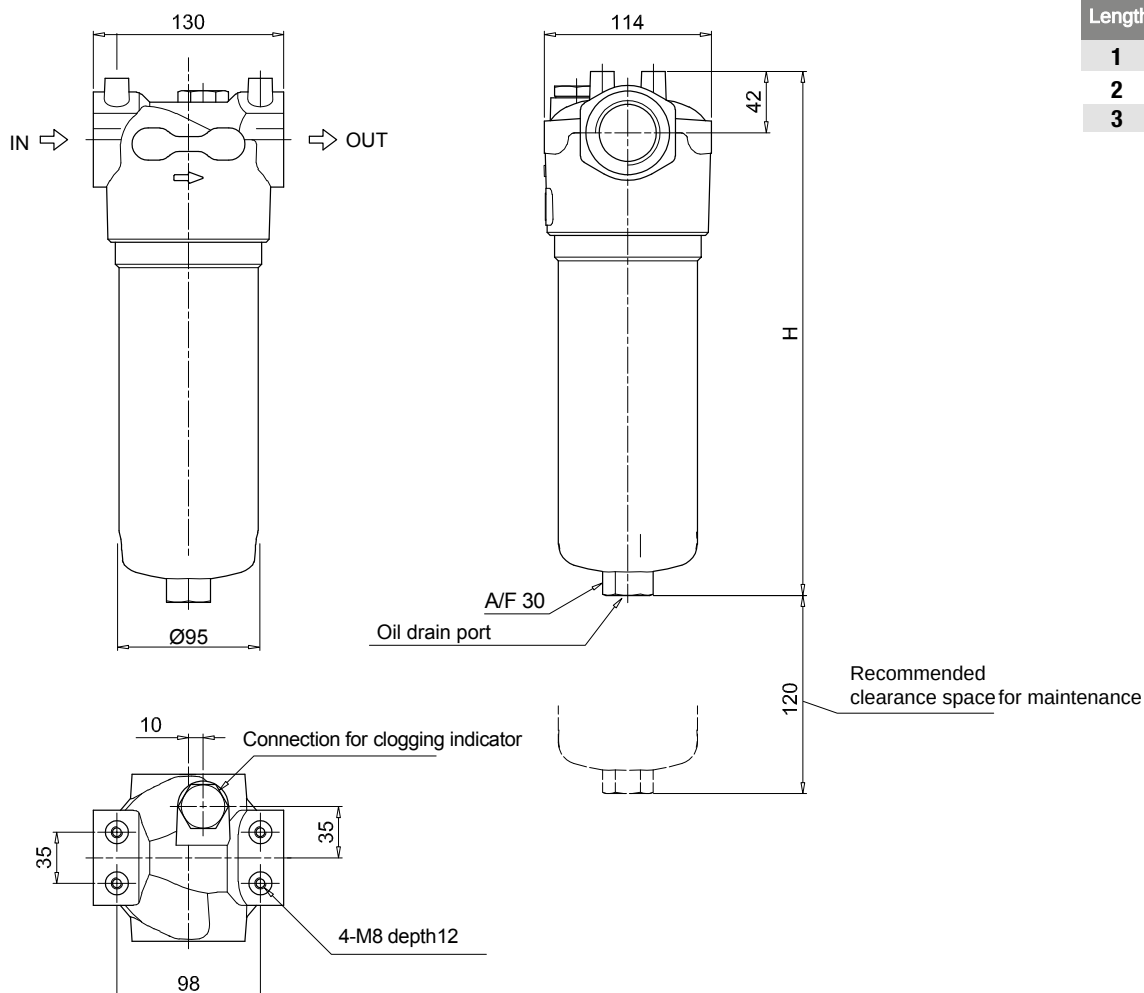
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PHZS211



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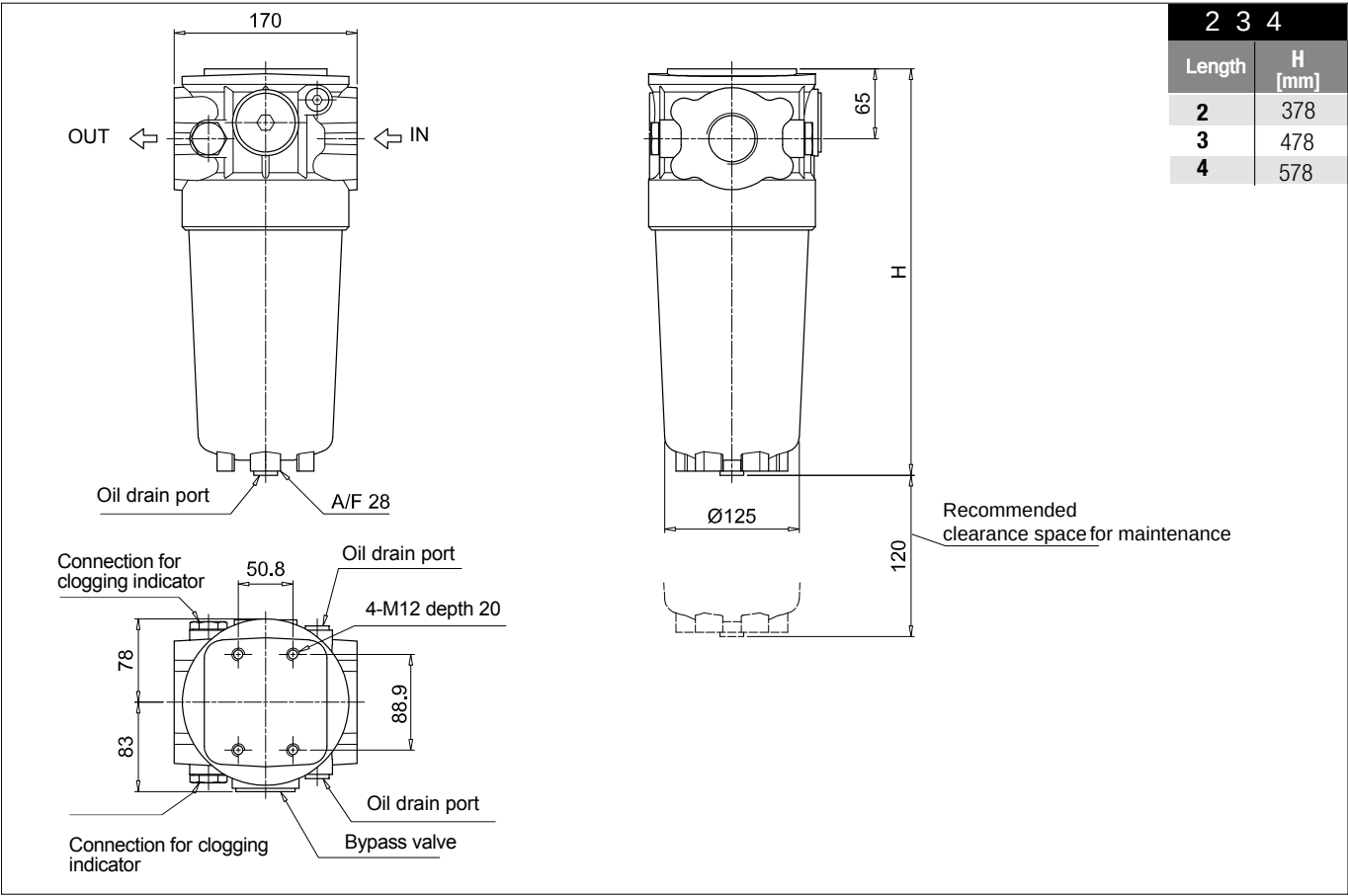
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Filter element type						
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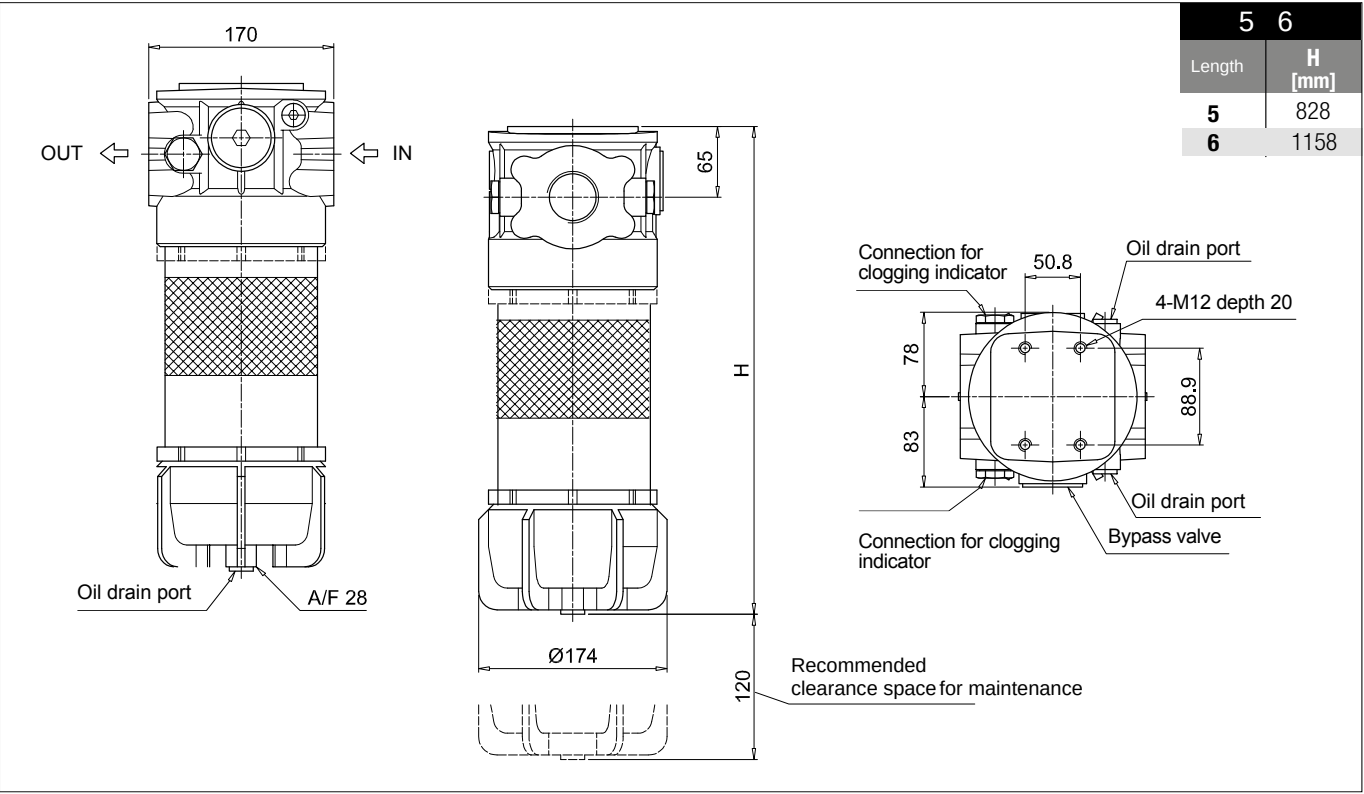
PHZS400

	2	3	4
Length			
H [mm]	378	478	578



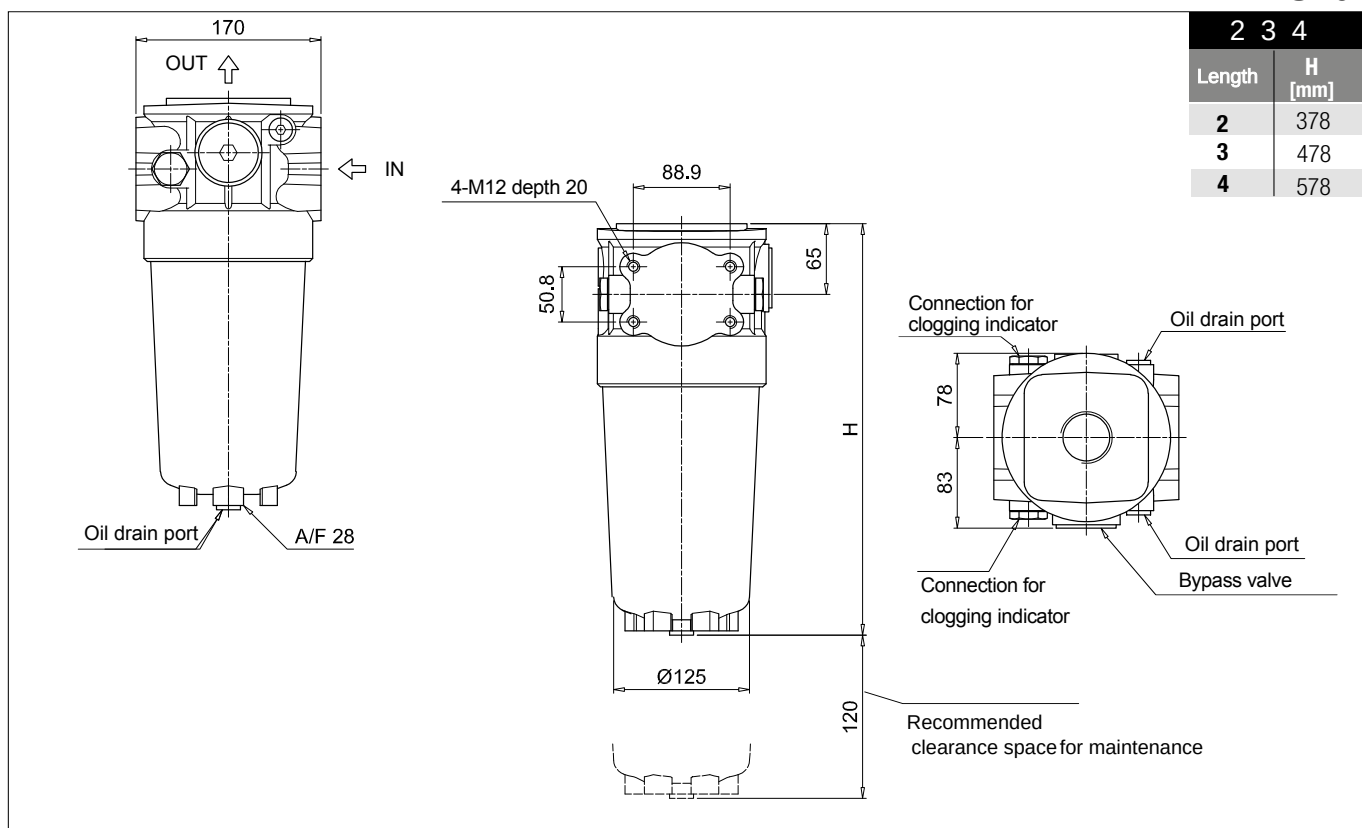
PHZS400

	5	6
Length		
H [mm]	828	1158

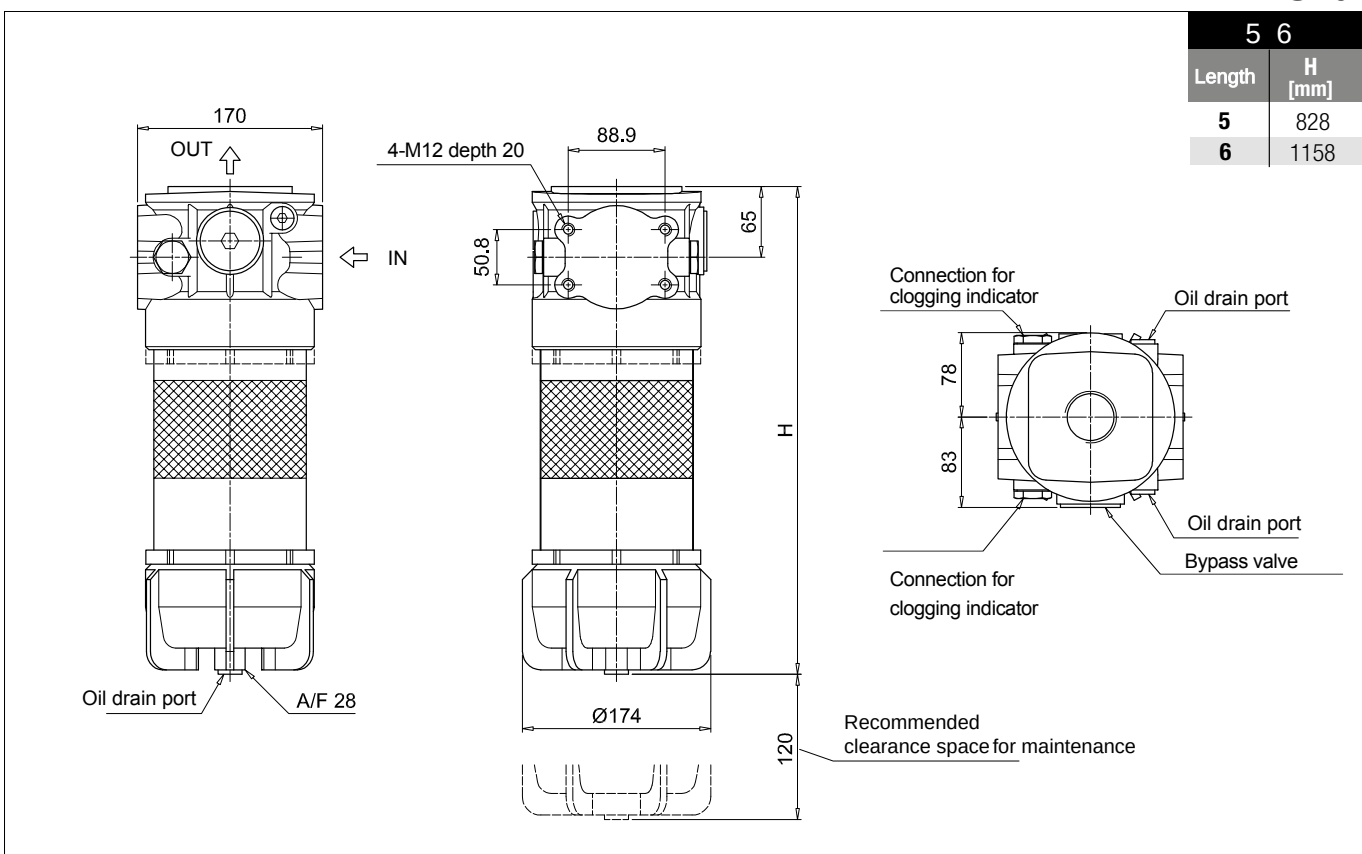


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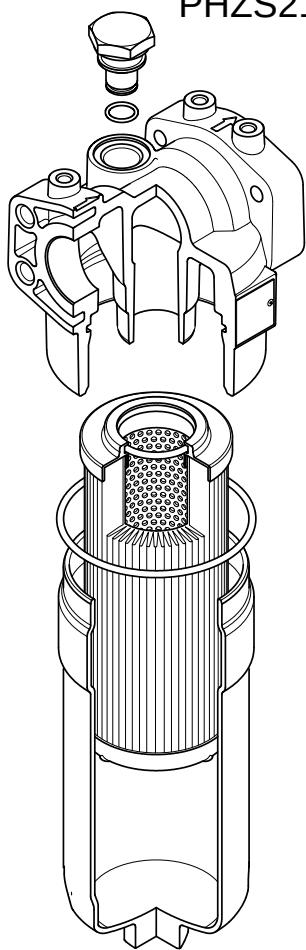
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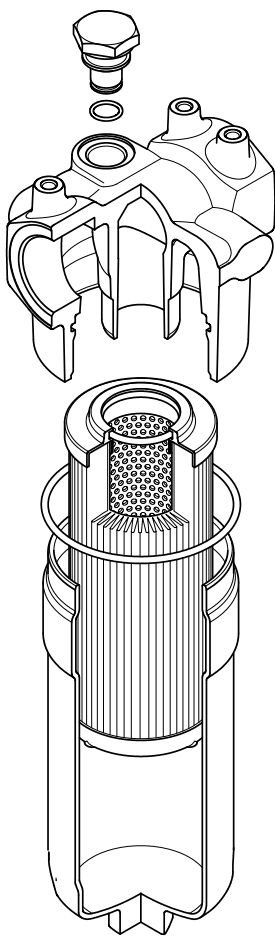
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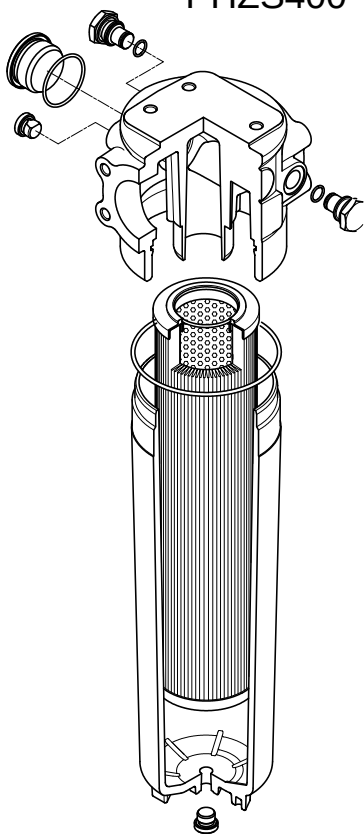
PHZS210



PHZS211



PHZS400



PHZS401

