

PHGW Series

● DESCRIPTION

High pressure filter

Top panel connection

Inside diameter: Ø16 Ø17.5 Ø30

Maximum flow rate up to 400 l/min

● TECHNICAL PARAMETER

Maximum working pressure: 320 bar

Bypass valve opening pressure: 6 bar

Transmitter opening pressure: 5 bar

Temperature range: -25 to +110

● MATERIALS

Filter Head: Carbon steel

Filter barrel: Carbon steel

Seals: NBR nitrile rubber (standard)

Or FKM fluororubber (customizable)

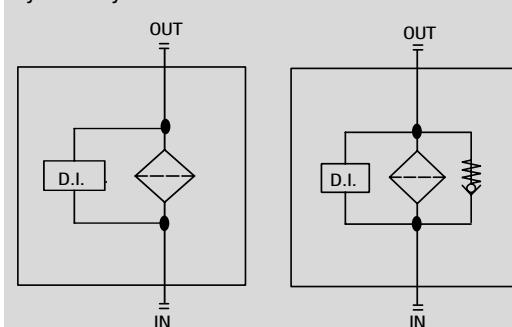
Filter element material: Fiberglass,

Stainless steel wire mesh



Highforce P

Hydraulic symbols



● 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	Length	Weights [kg]					Length	Volumes [dm ³]				
		1	2	3	4	5		1	2	3	4	5
PHGW 050		5.31	5.68	6.09	6.56	7.74		0.29	0.38	0.48	0.60	0.89
PHGW 065		5.47	5.83	7.04	-	-		0.27	0.34	0.56	-	-
PHGW 135		8.78	10.38	11.43	-	-		0.49	0.82	1.03	-	-
PHGW 320		19.80	21.93	24.22	26.70	-		1.04	1.76	2.53	3.36	-
PHGW 500		35.00	39.17	42.69	54.70	60.50		1.63	2.35	2.96	5.11	6.44

FILTER ASSEMBLY SIZING

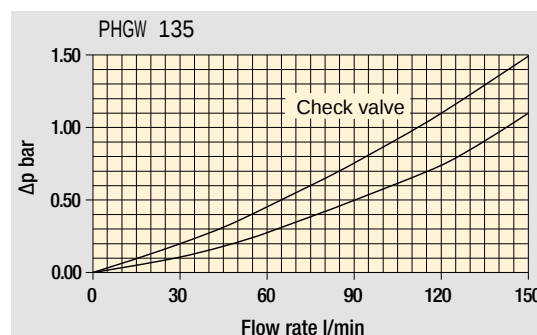
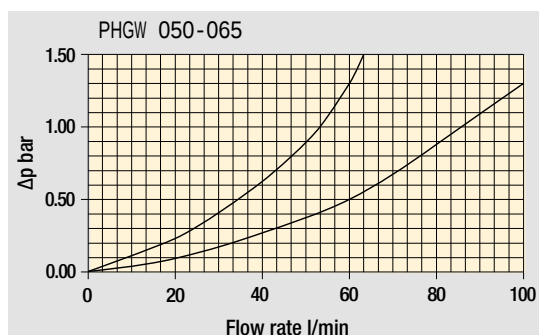
Flow rates (l/min)

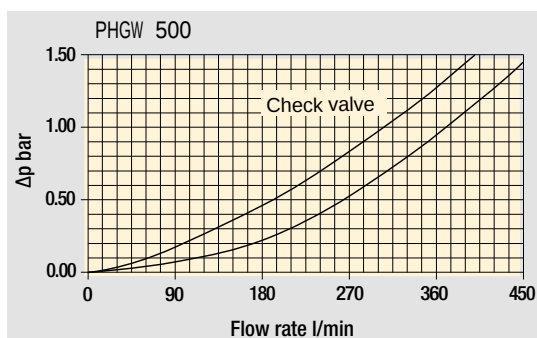
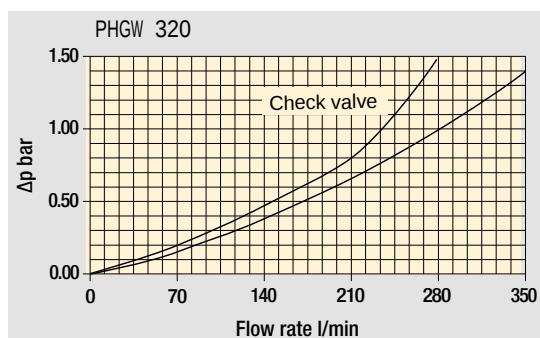
Filter series	Length	Filter element design - F series					W series
		A03	A06	A10	A16	A25	M25
PHGW 050	1	38	37	65	67	81	101
	2	46	50	69	75	89	102
	3	57	59	76	81	93	103
	4	68	71	84	86	95	103
	5	82	83	93	95	98	105
PHGW 065	1	23	30	48	53	71	102
	2	30	45	59	64	81	103
	3	52	60	78	82	92	105
PHGW 135	1	61	65	99	104	131	149
	2	91	96	118	119	155	167
	3	118	119	144	146	156	168
PHGW 320	1	112	121	187	217	252	312
	2	200	214	281	293	320	328
	3	245	267	312	320	325	333
	4	267	281	315	325	336	341
PHGW 500	1	211	232	281	289	309	394
	2	242	262	303	308	330	397
	3	284	294	336	338	357	399
	4	302	325	346	350	361	401
	5	325	334	356	361	373	401

Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 1.5$ bar.

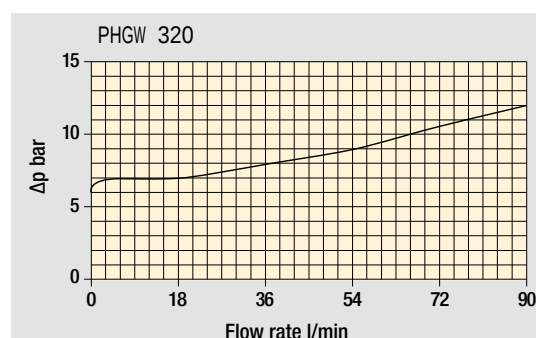
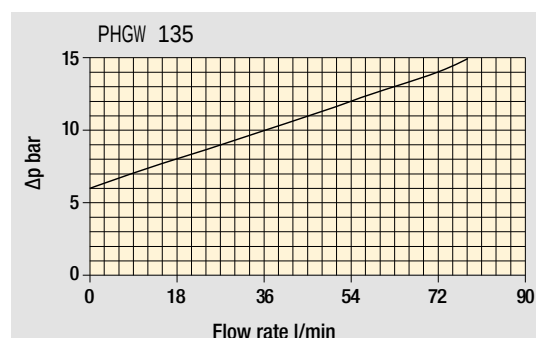
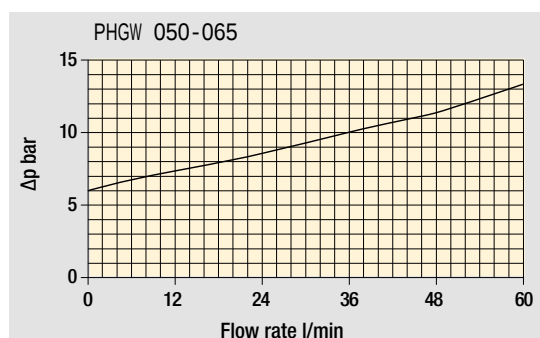
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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



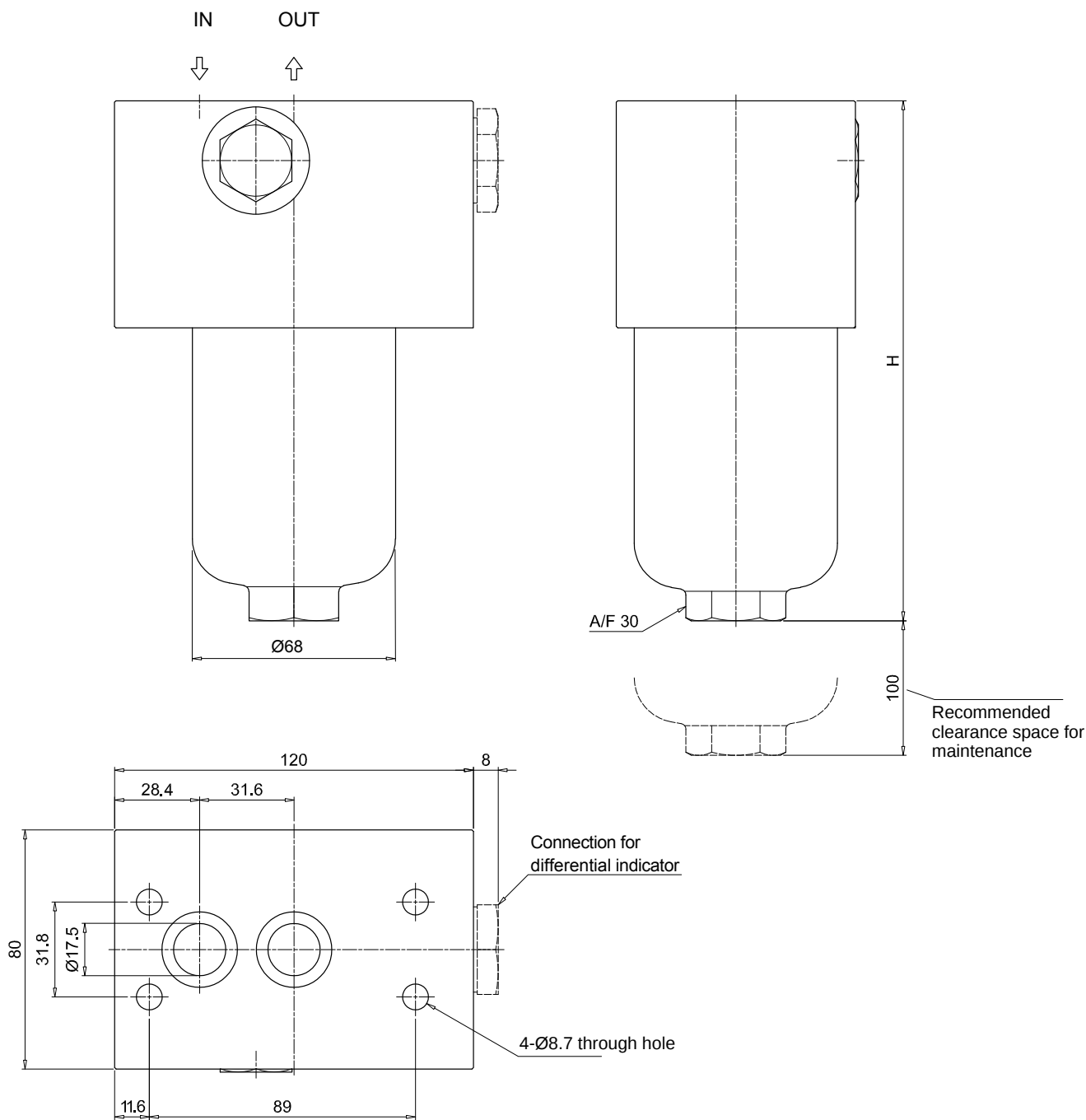
Ordering Options Table

	PHGW	320	2	T3	F	10	N	A	B6																												
Filter type																																					
Filter specification																																					
050 065 135 320 500																																					
Length																																					
1 2 3 4 5																																					
Connection type and size																																					
<table border="1"> <thead> <tr> <th rowspan="2">Type</th> <th rowspan="2">Connection</th> <th colspan="4">Filter specification</th> </tr> <tr> <th>050/065</th> <th>135</th> <th>320</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>Ø17.5</td> <td>●</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>T2</td> <td>Ø16</td> <td>-</td> <td>●</td> <td>-</td> <td>-</td> </tr> <tr> <td>T3</td> <td>Ø30</td> <td>-</td> <td>-</td> <td>●</td> <td>●</td> </tr> </tbody> </table>	Type	Connection	Filter specification				050/065	135	320	500	T1	Ø17.5	●	-	-	-	T2	Ø16	-	●	-	-	T3	Ø30	-	-	●	●									
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F: Fiberglass W: Stainless steel wire mesh																																					
Filter fineness(μm)																																					
F: 03 05 10 20 30 W: 25																																					
Seals																																					
N: NBR V: FKM																																					
Differential pressure transmitter																																					
A: Steel blanking plug in indicator port B: Visual (Automatic reset) BM: Visual (Manual reset) C: Electrical indicator CM: Visual and electrical indicators CL: Visual and electrical indicators D: Electrical indicator DM: Electrical indicator Plug DT 04-2P																																					
Bypass valve opening pressure																																					
S = Without bypass valve B = 6 bar																																					

DIMENSIONS

PHGW 050	
Length	H [mm]
1	154
2	191
3	233
4	281
5	403

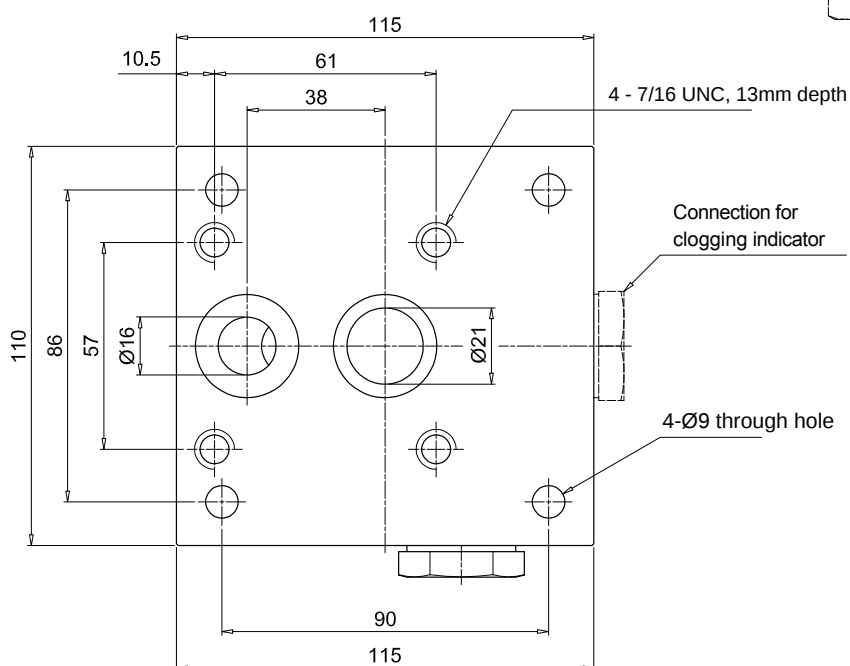
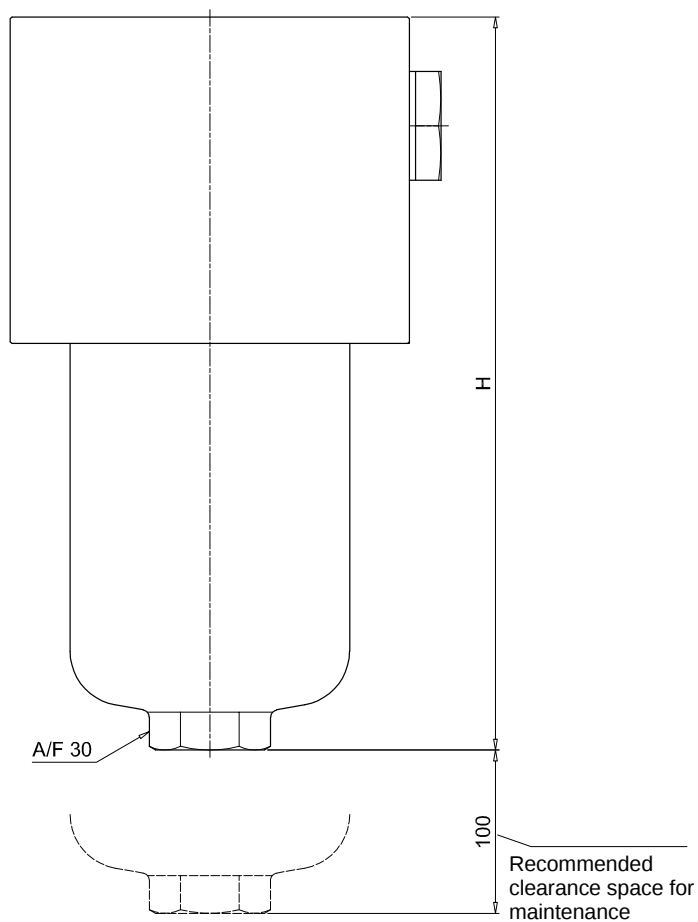
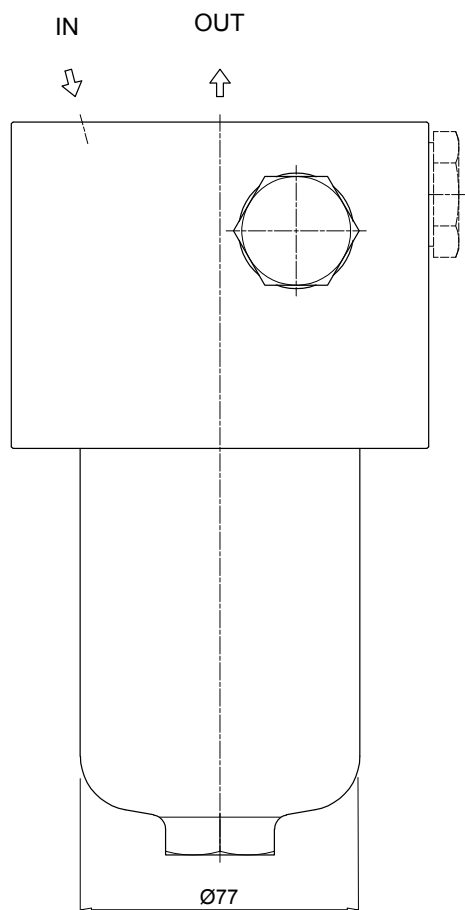
PHGW 065	
Length	H [mm]
1	162
2	193
3	295



DIMENSIONS

PHGW 135

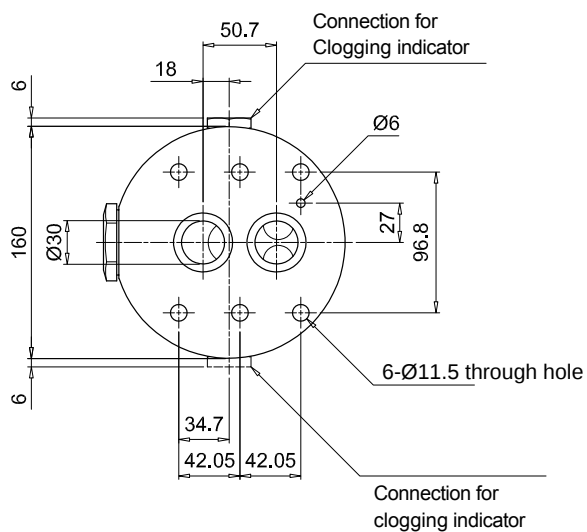
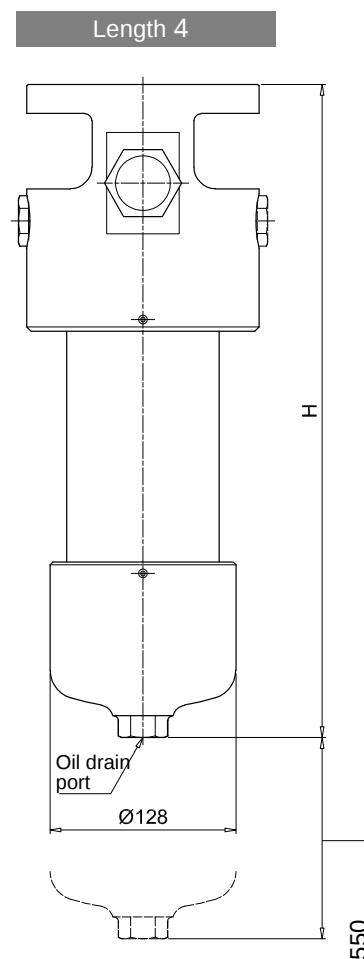
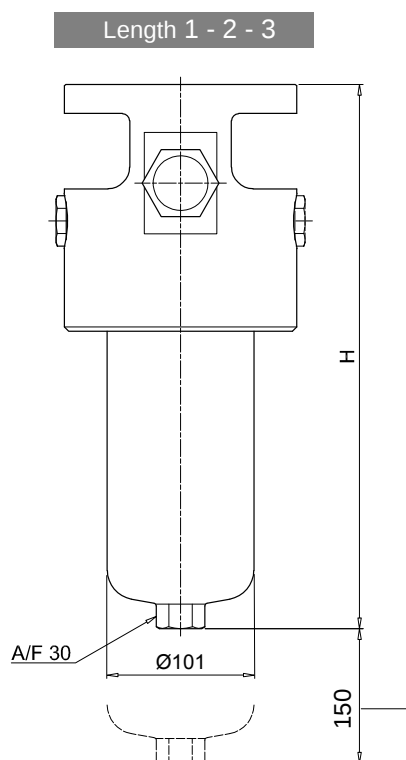
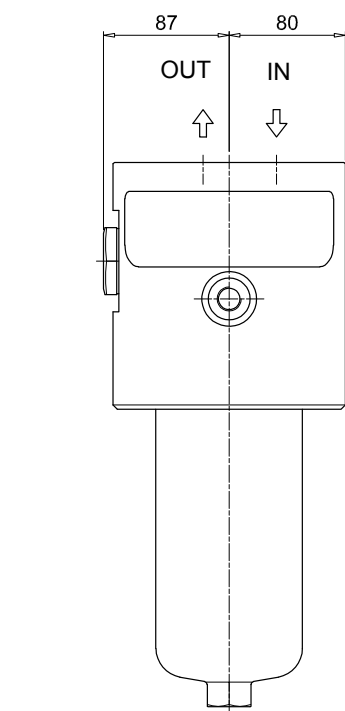
Length	H [mm]
1	202
2	315
3	390



DIMENSIONS

PHGW 320

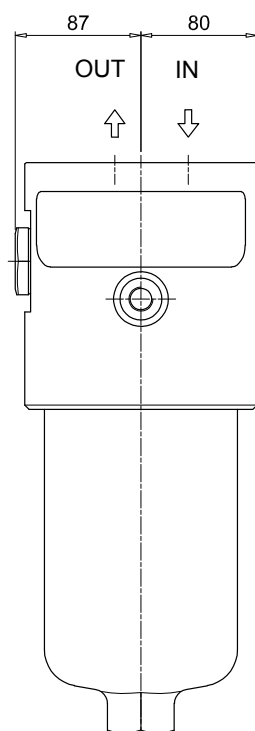
Length	H [mm]
1	293
2	416
3	548
4	702



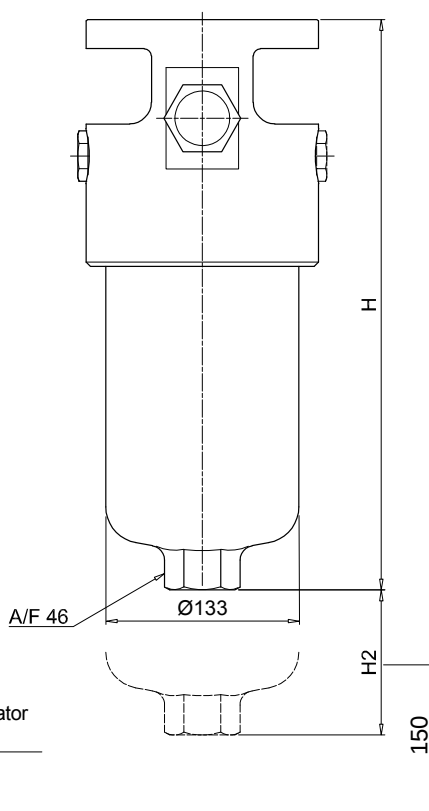
DIMENSIONS

PHGW 500

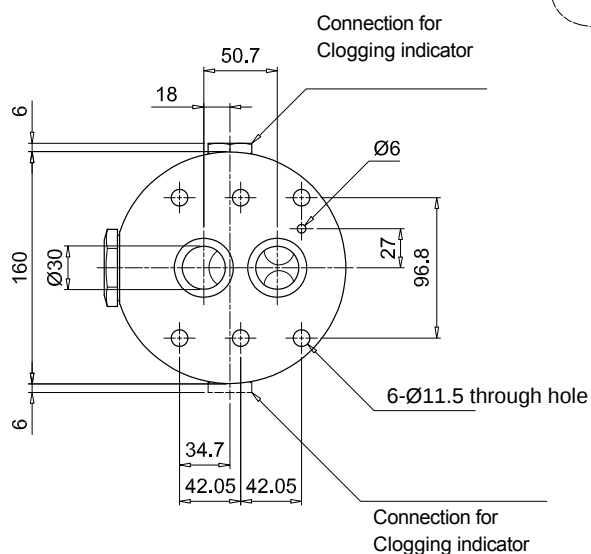
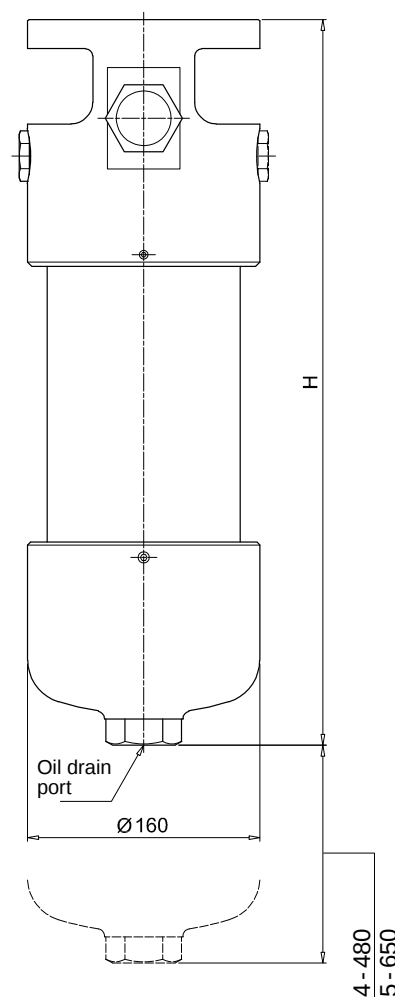
Length	H [mm]
1	355
2	445
3	521
4	679
5	845



Length 1 - 2 - 3



Length 4 - 5



Recommended clearance space for maintenance

Recommended clearance space for maintenance

Filter Element

	PYGW	320	2	F	10	N
Filter element type						
Filter element specification						
050 065 135 320 500						
Length						
1 2 3 4 5						
Filter element material						
F: Fiberglass						
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