PHGL Series

DESCRIPTION

High pressure filter
Connection type and size:
Threaded connection: 1/2" 3/4" 1" 1-1/4" 1-1/2"
SAE Flange connection: 3/4" 1" 1-1/4" 1-1/2"
Maximum flow rate up to 500 l/min

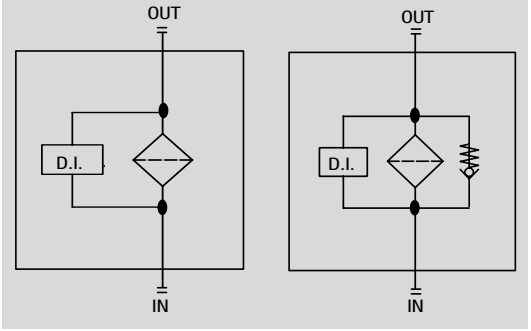
TECHNICAL PARAMETER

Maximum working pressure:320 bar
Bypass valve opening pressure: 6 bar
Transmitter opening pressure: 5 bar
Temperature range: -25℃ to +110℃

MATERIALS

Head: Cast iron
Filter bowl: Carbon steel
Seals:NBR nitrile rubber (standard)
FKM fluororubber (customizable)
Filter element material:Fiberglass,
Stainless steel wire mesh

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.)

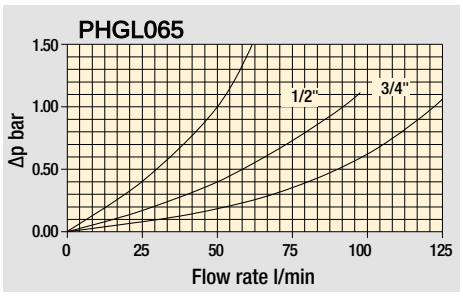
Weights [kg] and volumes [dm³]

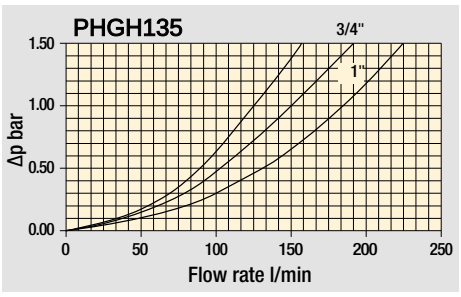
	Weights [kg]					Volumes [dm³]				
Filter series	Length	1	2	3	4	Length	1	2	3	4
PHGL 039		-	0.60	0.70	0.80		-	0.19	0.26	0.34
PHGL 065		3.26	3.62	4.83	-		0.36	0.47	0.84	-
PHGL 135		5.61	7.21	8.27	-		0.45	0.78	1.00	-
PHGL 320		10.95	13.08	15.37	17.85		1.03	1.75	2.52	3.35

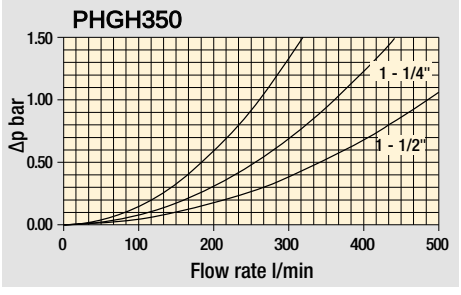
FILTER ASSEMBLY SIZING Flow rates (l/min)

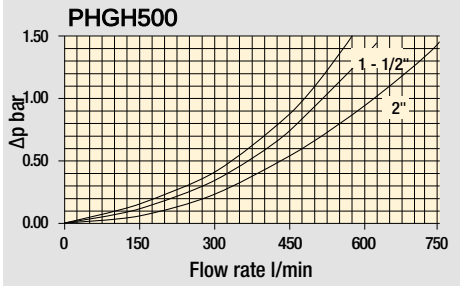
		Filter element design - F series					W series
Filter series	Length	F03	F05	F10	F20	F30	W25
PHGL 039	**2**	20	26	45	52	61	97
	3	35	39	56	64	76	98
	4	44	48	66	71	82	92
PHGL 065	**1**	23	30	48	54	72	105
	2	31	45	60	65	82	106
	3	52	60	80	84	94	108
PHGL 135	**1**	69	73	120	129	171	201
	2	110	117	149	152	211	232
	3	151	152	192	195	212	233
PHGL 320	**1**	130	144	244	296	361	477
	2	267	291	417	438	492	509
	3	348	390	476	493	503	519
	4	389	415	483	502	525	534

Maximum **fl**ow rate for a complete return **fi**lter with a pressure drop **Δ**p= 1.5 bar.
The reference fluid has a kinematic viscosity of 30 mm² /s (cSt) and a density of 0.86 kg/dm³.



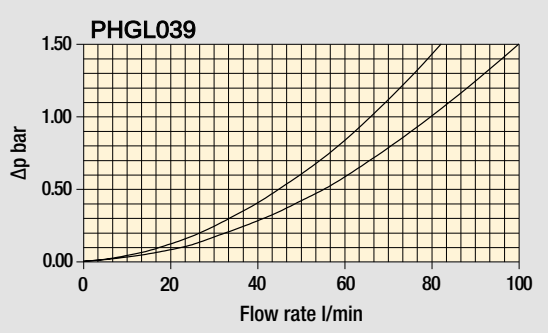


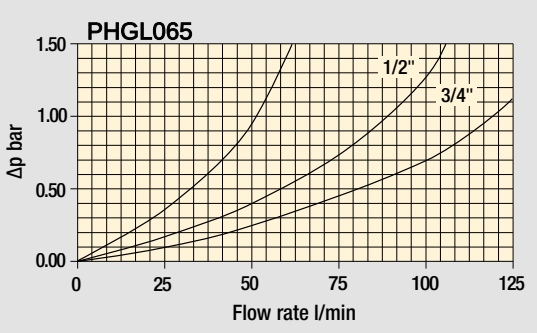


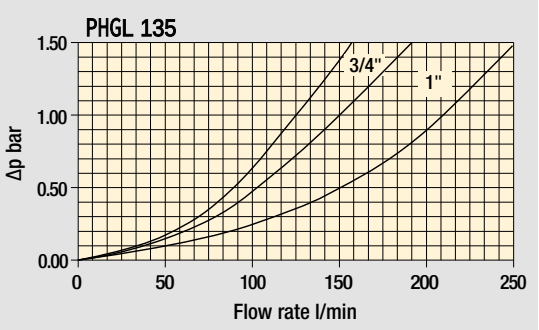


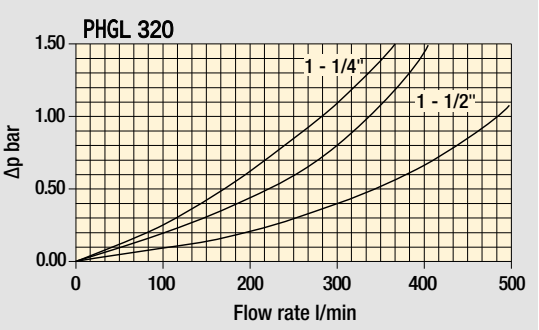
The curves are plotted using mineral oil with density of 0.86 kg/dm3 in compliance with ISO 3968 **Δ**p varies proportionally with density.

Filter housings Δp pressure drop

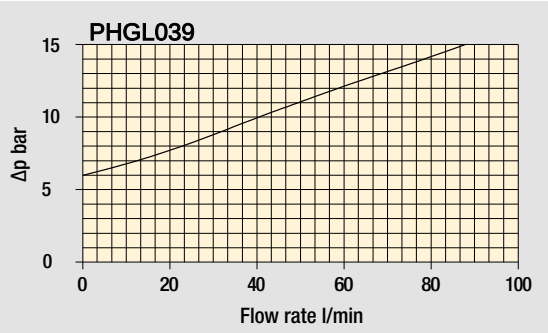


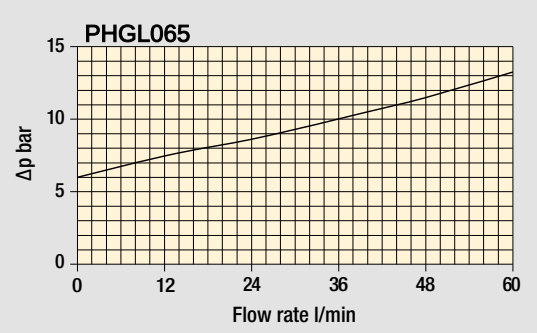


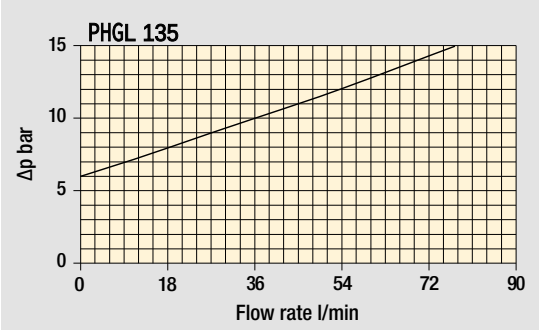


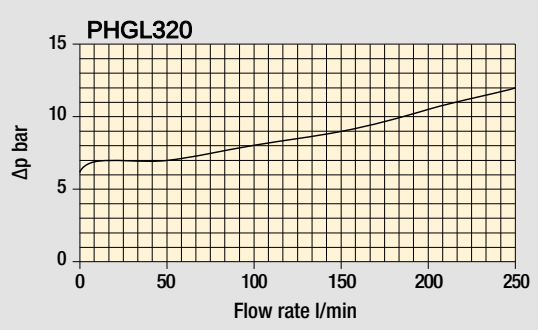


Bypass valve pressure drop









Ordering Options Table

PHGL 065 3 G2 F 10 N A B6

Filter type

Filter specification

039 065 135 320

Length

1 2 3 4

Connection type and size

Type	Connection	Filter specification			
		039	065	135	320
G1	G 1/2"	●	●	-	-
G2	G 3/4"	-	●	●	-
G3	G 1"	-	-	●	-
G4	G1-1/4"	-	-	-	●
G5	G1-1/2"	-	-	-	●
F1	SAE 3/4"	-	-	●	-
F2	SAE 1"	-	-	●	-
F3	SAE 1 - 1/4"	-	-	-	●
F4	SAE 1 - 1/2"	-	-	-	●

Filter element material

F: Fiberglass
W: Stainless steel wire mesh

Filter fineness(μm)

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
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

B0 = Without
B6 = 6 bar

Filter Element

PYGL 065 3 F 10 N

Filter element type

Filter element specification

039 065 135 320

Length

1 2 3 4

Filter element material

F: Fiberglass
W: Stainless steel wire mesh

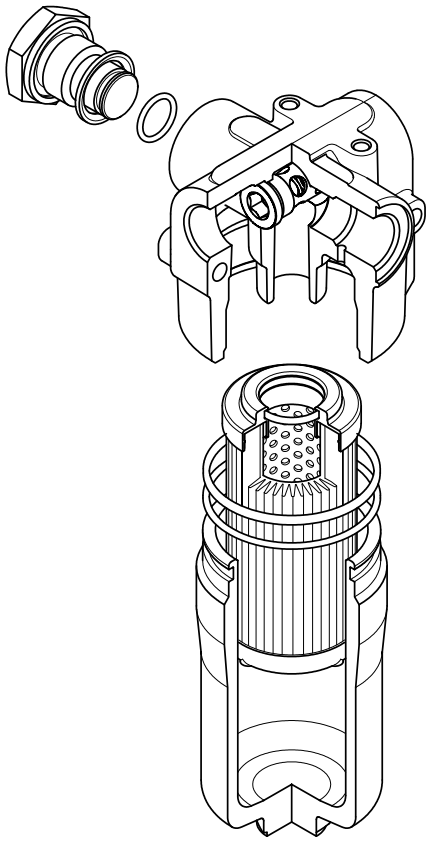
Filter fineness(μm)

F: 03 05 10 20 30
W: 25 60 90

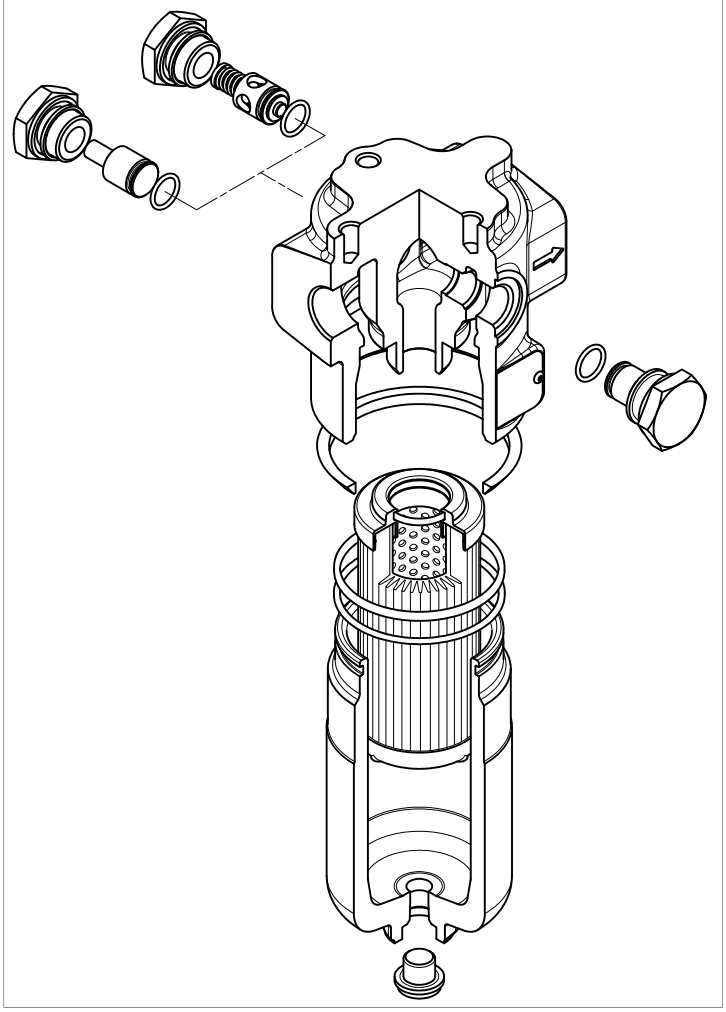
Seals

N: NBR V: FKM

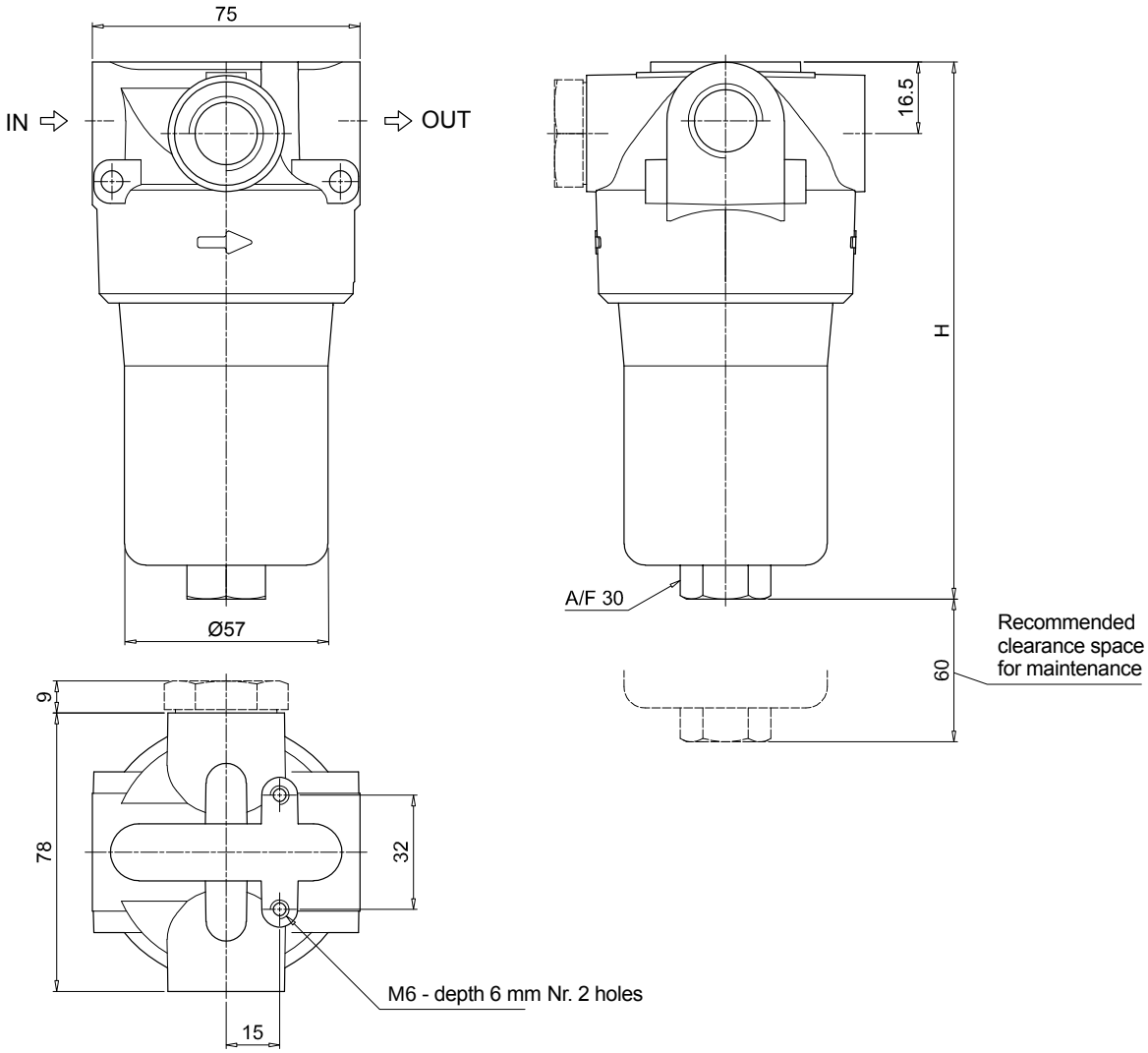
PHGL 039

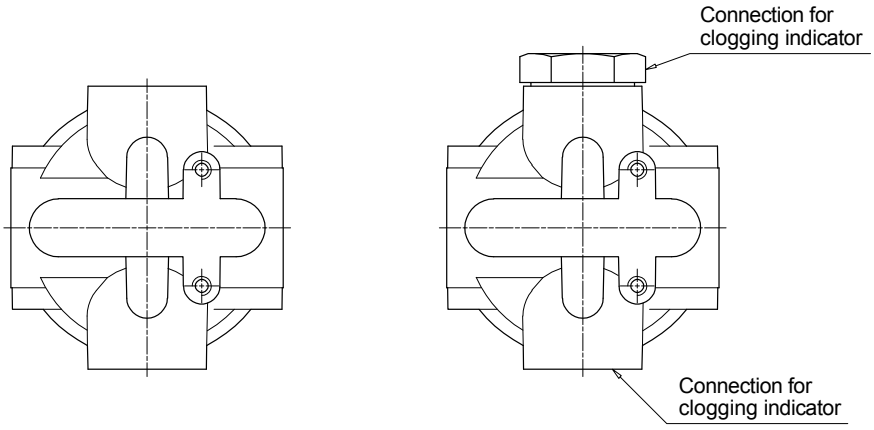


PHGL 065 - 135 - 320



DIMENSIONS





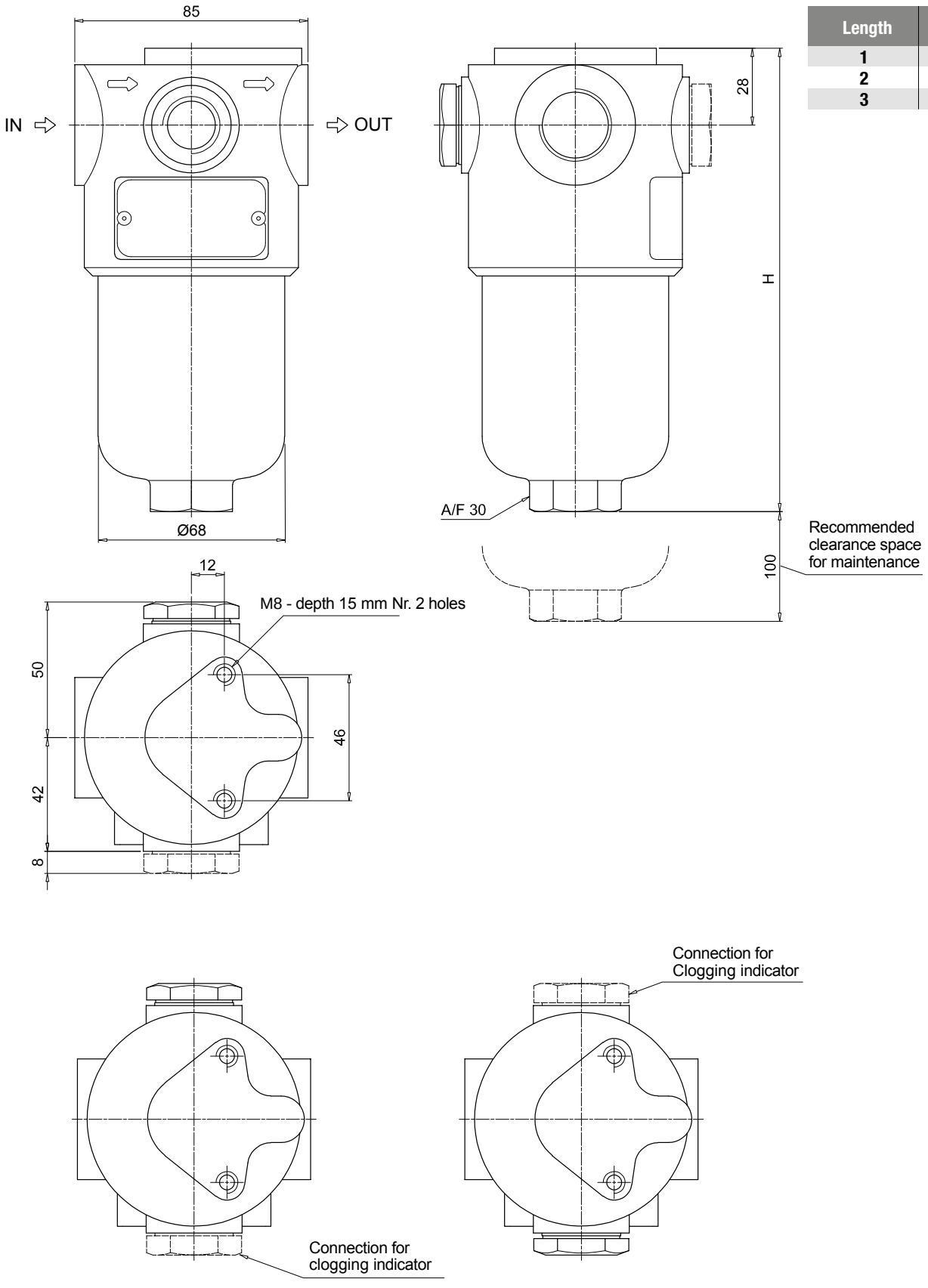
PHGL 039

Length	H [mm]
2	151
3	194
4	238

DIMENSIONS

PHGL 065

Length	H [mm]
1	169
2	200
3	302



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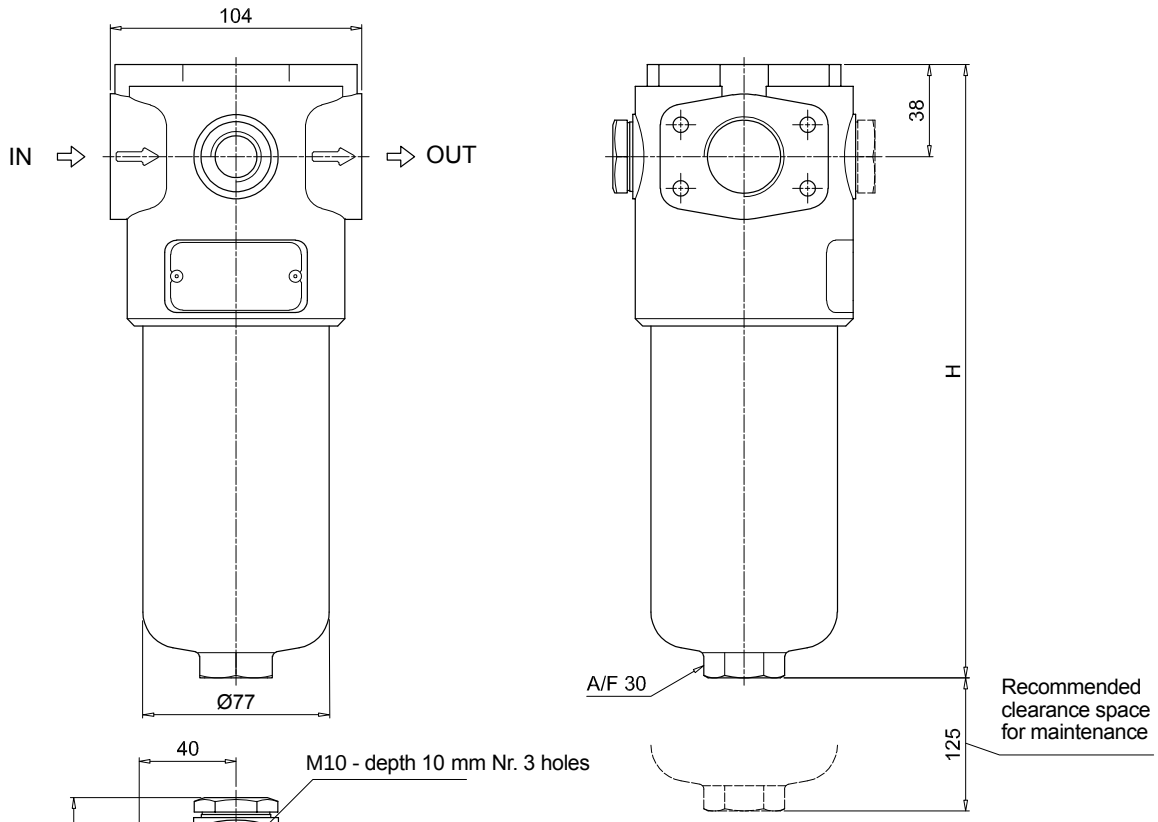
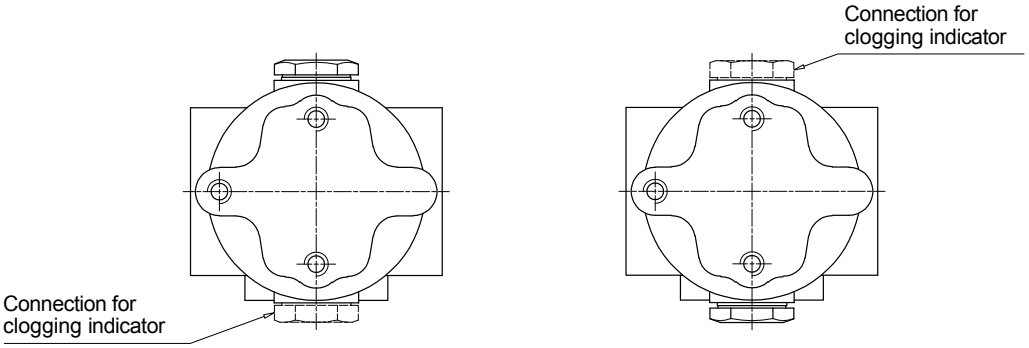
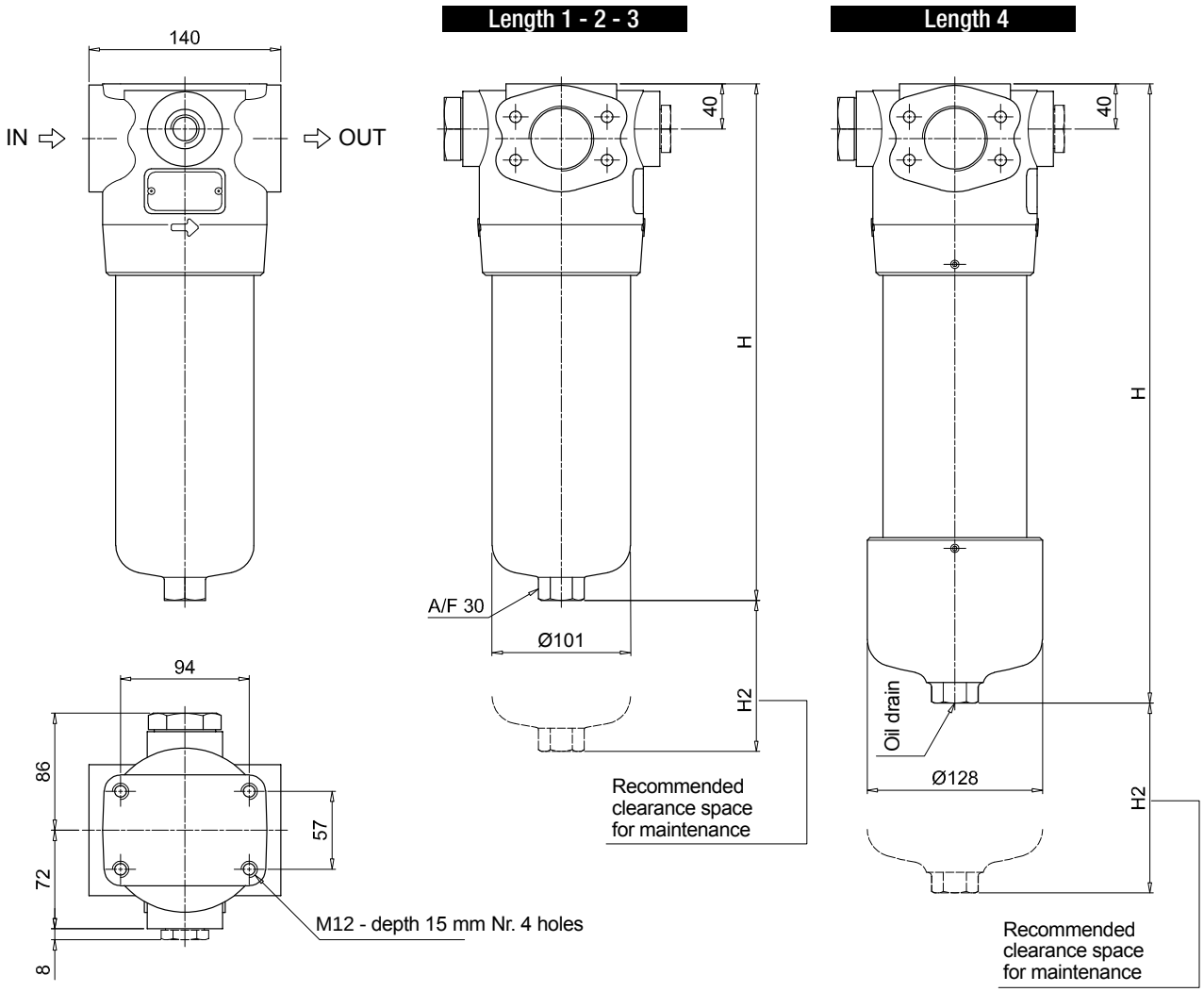


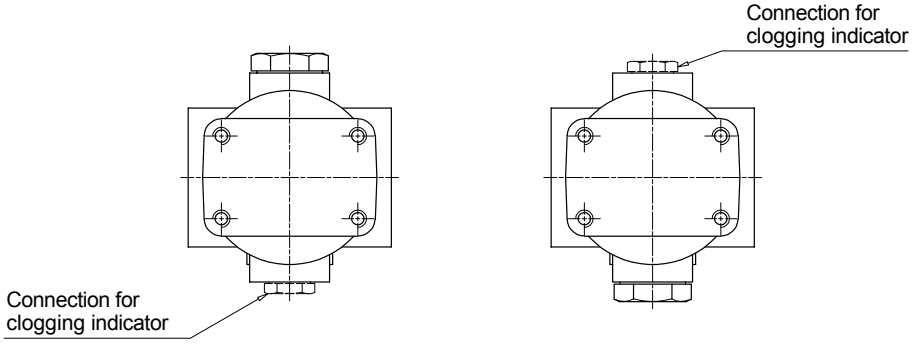


PHGL 135

Length	H [mm]
1	221
2	334
3	409

DIMENSIONS





PHGL 320

Length	H [mm]	H2 [mm] 1-2-3	H2 [mm] 4
1	263	150	-
2	386	150	-
3	518	150	-
4	671	150	550