PHGW Series

DESCRIPTION

High pressure filter
Top panel connection
Inside diameter: Ø16 Ø17.5 Ø30
Maximum flow rate up to 400 l/min

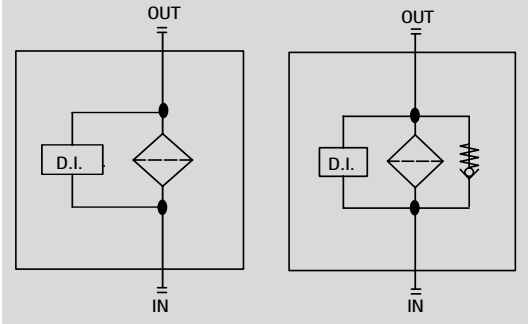
TECHNICAL PARAMETER

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

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	5	Length	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

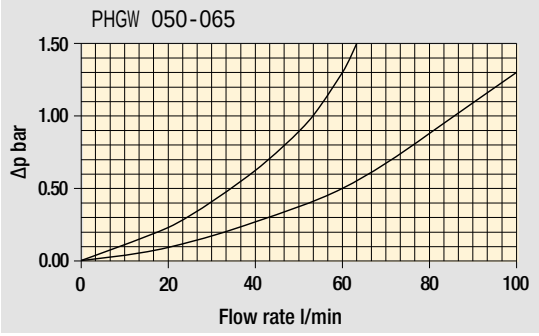
FILTER ASSEMBLY SIZING

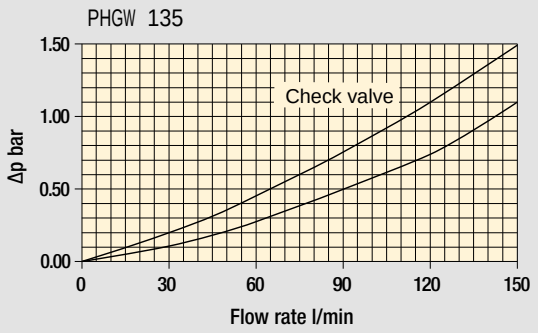
Flow rates (l/min)

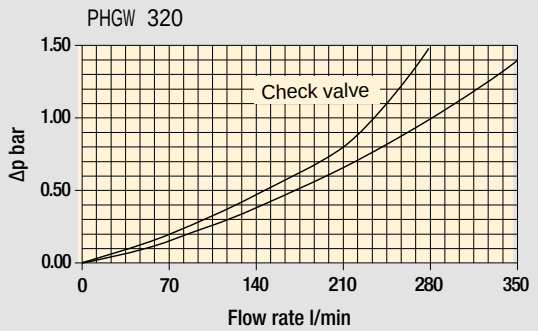
		Filter element design - F series					W series
Filter series	Length	A03	A06	A10	A16	A25	M25
PHGW 050	1	38	37	65	67	81	101
	2	46	50	69	75	89	102
	3	57	59	76	81	93	103
	4	68	71	84	86	95	103
	5	82	83	93	95	98	105
PHGW 065	1	23	30	48	53	71	102
	2	30	45	59	64	81	103
	3	52	60	78	82	92	105
PHGW 135	1	61	65	99	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

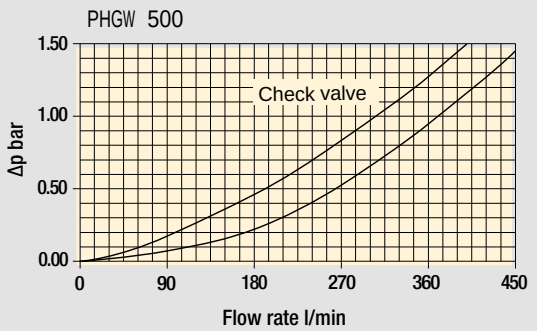
Maximum flow rate for a complete return filter with a pressure drop **Δ**p= 1.5 bar.
The reference fluid has a kinematic viscosity of 30 mm^2/s (cSt) and a density of 0.86 kg/dm^3.
The curves are plotted using mineral oil with density of 0.86 kg/dm^3 in compliance with ISO 3968 **Δ**p varies proportionally with density.

Filter housings **Δ**p pressure drop

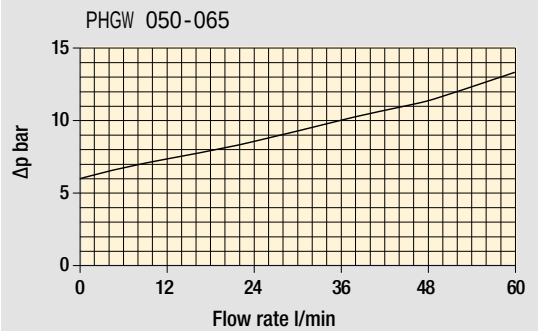


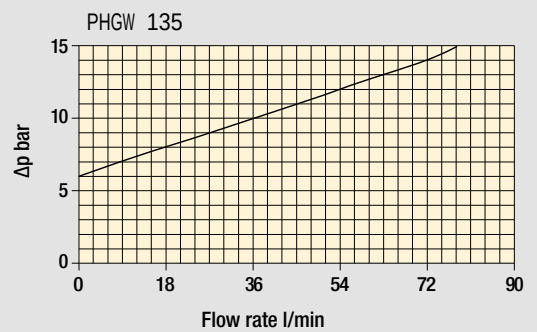


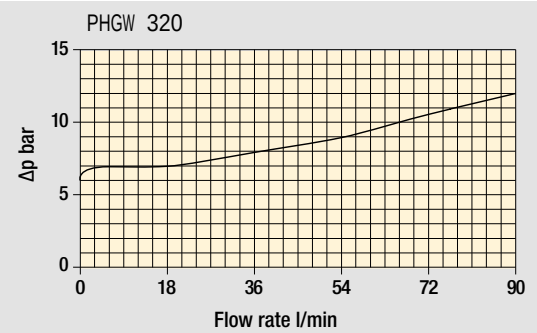




Bypass valve pressure drop







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

Type	Connection	Filter specification			
		050/065	135	320	500
T1	Ø17.5	●	-	-	-
T2	Ø16	-	●	-	-
T3	Ø30	-	-	●	●

Filter element material

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

Filter Element

PYGW 320 2 F 10 N

Filter element type

Filter element specification

050 065 135 320 500

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Seals

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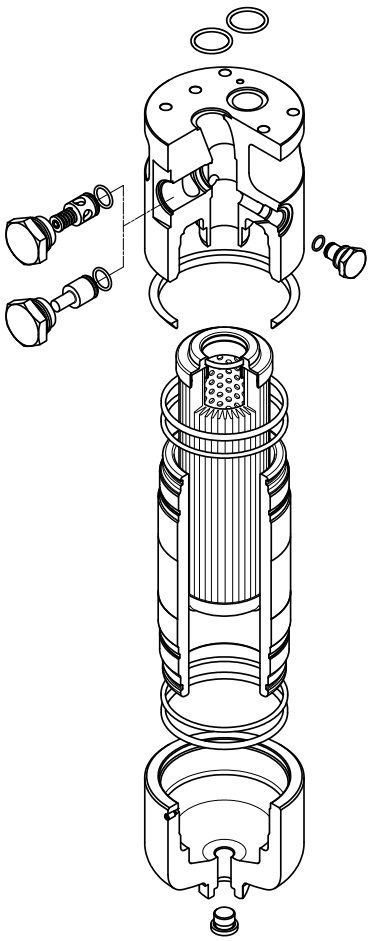
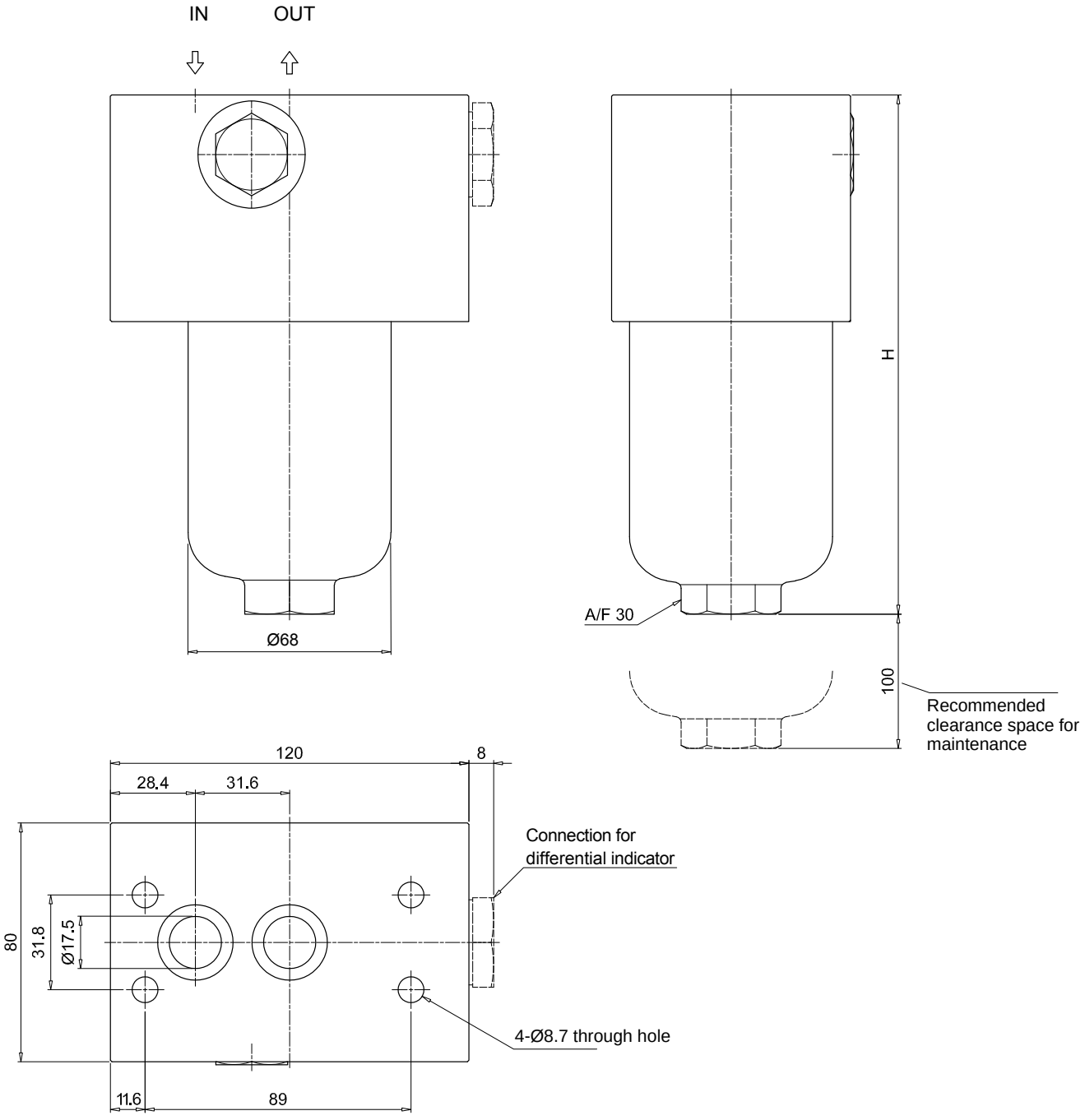


DIMENSIONS

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

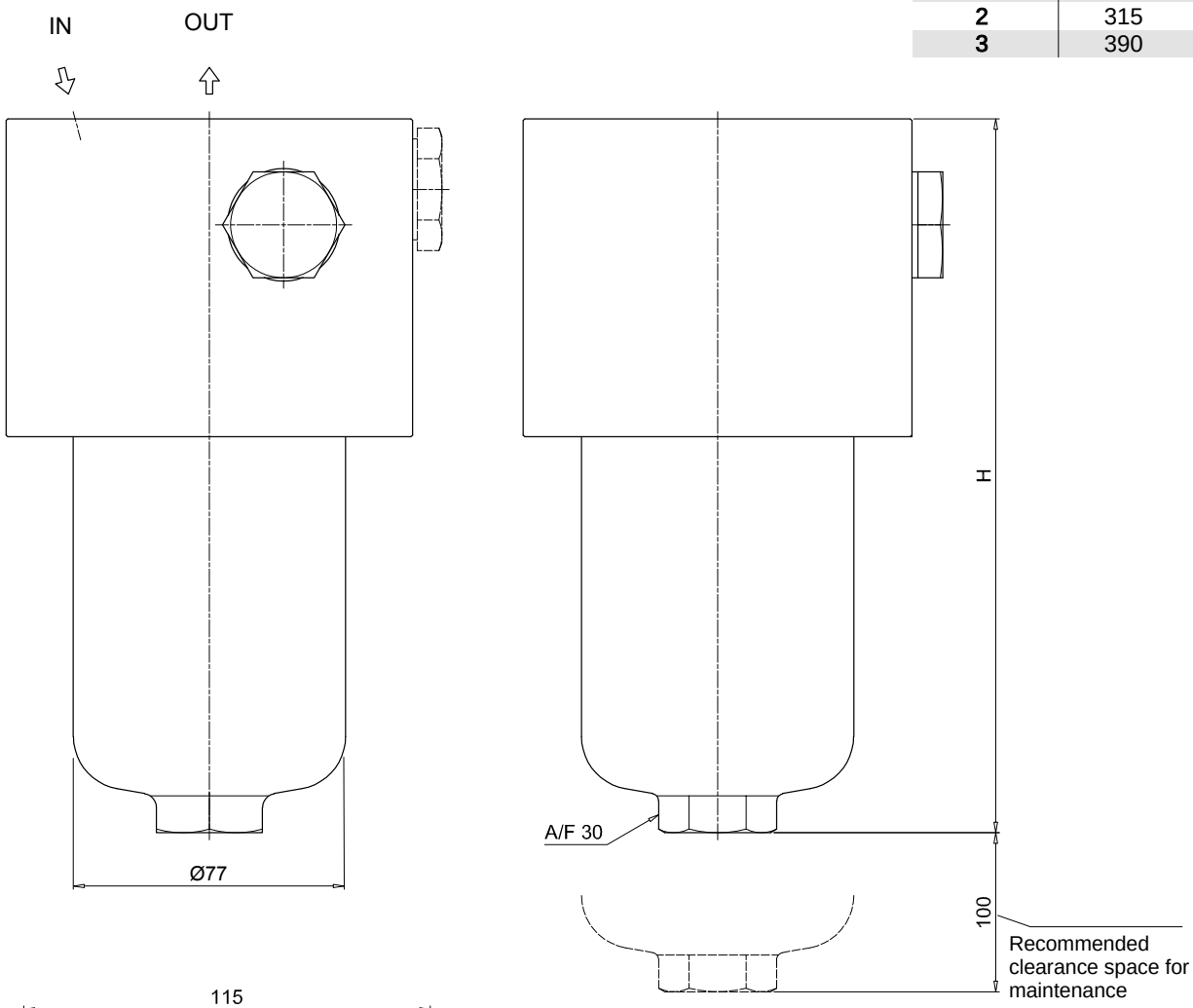
PHGW 065	
Length	**H [mm]**
1	162
2	193
3	295

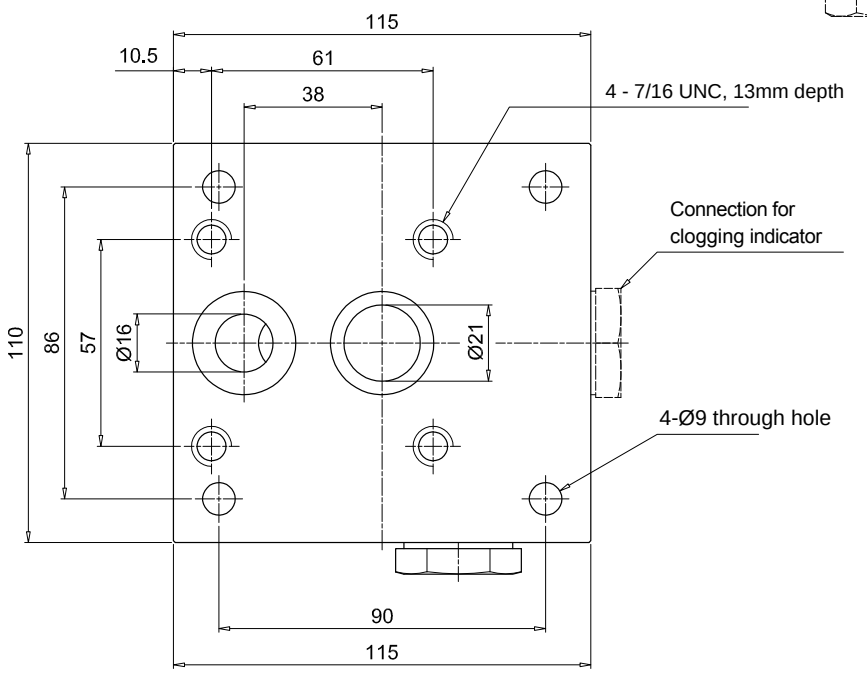


DIMENSIONS

PHGW 135

Length	H [mm]
1	202
2	315
3	390

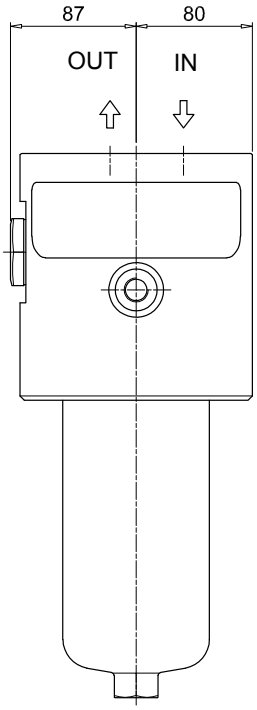




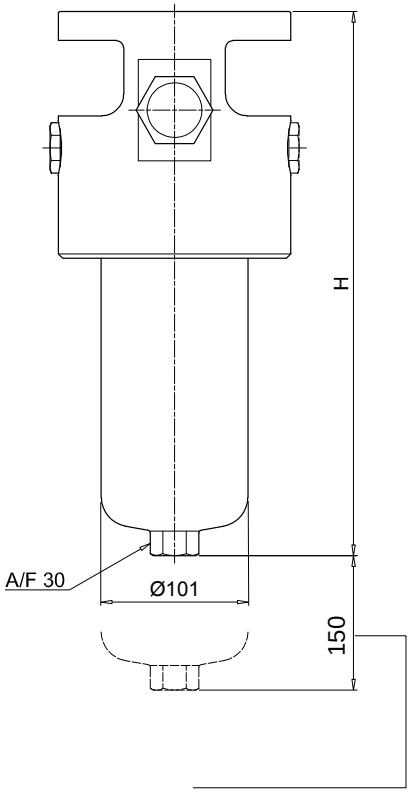
DIMENSIONS

PHGW 320

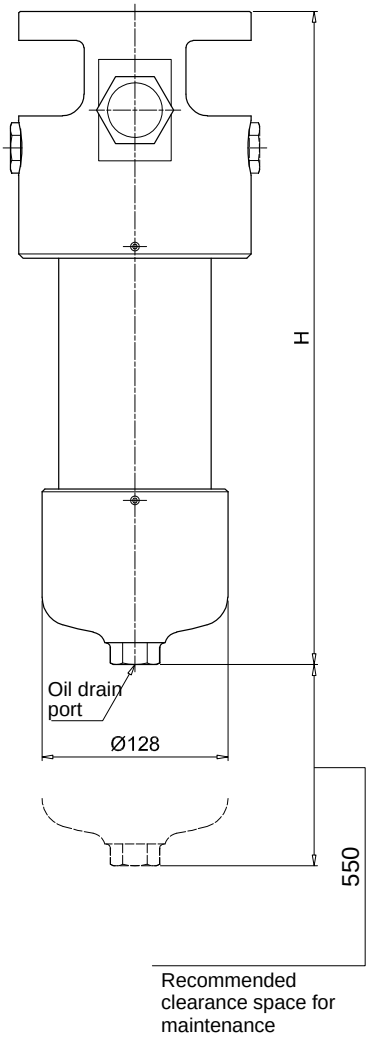
Length	H [mm]
1	293
2	416
3	548
4	702

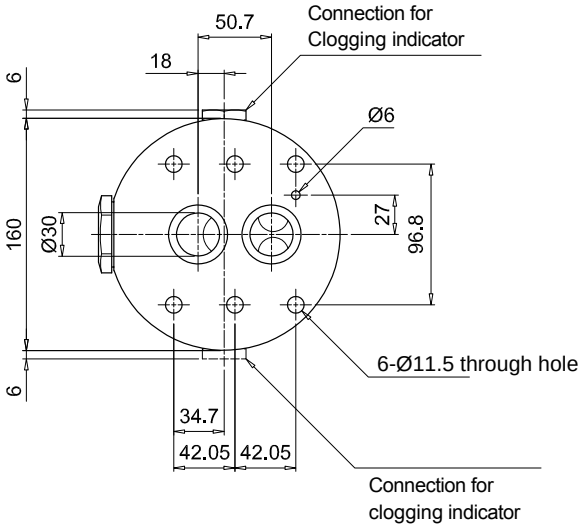


Length 1 - 2 - 3



Length 4





DIMENSIONS

PHGW 500

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