

MPH series

Maximum working pressure up to 1 MPa (10 bar) - Flow rate up to 3500 l/min



Return filter

Maximum working pressure up to 1 MPa (10 bar)

Flow rate up to 3500 l/min

MPH is a range of return filters for protection of the reservoir against the system contamination.

They are directly fixed to the reservoir, in immersed or semi-immersed position.

The use of the diffuser is recommended, to place the filter output always immersed into the fluid to avoid aeration or foam generation into the reservoir.

The filtration from inside to outside allows a cleaner filter element replacement, the dirty remains into the filter element.

Available features:

- Female threaded connections up to 1 1/2" and flanged connections up to 4", for a maximum flow rate of 3500 l/min
- Multiple connections, to connect several return lines or drains
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve, to relieve excessive pressure drop across the filter media
- Magnetic filter, to hold the ferrous particles
- 2, 3, 4 or 8 fixing holes for installation, to suit a variety of reservoir surfaces
- Flat Seal to suit a variety of reservoir surfaces
- Oil dipstick, to easily check the level of the fluid into the reservoir (separate item)
- Diffuser, to reduce the risk of aeration, foaming and noise
- Filler plug, to fill cleaned fluid into the tank without an additional plug
- Integrated breather filter, to clean the air that moves into the reservoir as result of the oil level fluctuation (MPH110/114)
- Integrated breather filter with pressurization valve, to clean the air that moves into the reservoir as result of the oil level fluctuation and to guarantee the pressurization into the reservoir (MPH110/114)
- Visual, electrical and electronic clogging indicators

Common applications:

Heavy duty industrial equipment

Filter housing materials

- Head
 - Aluminium: MPH 110-114-116-120-250
 - Anodized Aluminium: MPH 630-850
 - Painted Aluminium: MPH 660

- Cover
 - Polyamide: MPH 110-114-116-120
 - Aluminium: MPH 250
 - Anodized Aluminium: MPH 630
 - Painted Aluminium: MPH 660
 - Steel: MPH 850

- Insert assembly
 - Polyamide: MPH 110-114-116-120
 - Aluminium: MPH 250-630-660-850

- Diffuser: Tinned Steel

- Valve: Phosphatized Steel

Bypass valve

- Opening pressure 175 kPa (1.75 bar) ±10%
- Opening pressure 250 kPa (2.5 bar) ±10%, except for MPH 850

Δp element type

- Microfibre filter elements - series MR: 10 bar
- Fluid flow through the filter element from IN to OUT

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C

Note

MPH filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]					Volumes [dm³]						
	Length	1	2	3	4	5	Length	1	2	3	4	5
MPH 110		1.60	1.70	1.80	2.20	2.60		1.60	1.70	1.80	2.20	2.60
MPH 114		1.60	1.70	1.80	2.20	2.60		1.60	1.70	1.80	2.20	2.60
MPH 116		1.60	1.70	1.80	2.20	2.60		1.60	1.70	1.80	2.20	2.60
MPH 120		1.60	1.70	1.80	2.20	2.60		1.60	1.70	1.80	2.20	2.60
MPH 250		3.60	3.90	4.20	5.60	-		4.40	4.40	5.40	8.00	-
MPH 630		6.50	7.00	7.40	8.50	10.50		7.30	9.00	11.00	13.00	19.20
MPH 660		-	-	-	11.50	14.00		-	-	-	14.60	21.00
MPH 850		32.00	35.00	38.00	42.00	-		13.00	16.50	21.00	25.00	-

Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
MPH 110-114 116-120	1	26	29	72	79	107	282	164	190
	2	43	46	112	114	161	318	164	190
	3	64	72	132	156	178	324	219	251
	4	90	99	184	198	216	324	266	302
	5	117	128	201	219	244	324	282	318
MPH 250	1	93	102	210	251	315	1093	339	383
	2	124	151	327	412	421	1122	460	514
	3	189	221	418	445	500	1137	544	616
	4	261	304	592	670	766	1166	832	923
MPH 630	1	160	200	369	423	518	1894	565	632
	2	240	257	571	611	1045	1929	1137	1285
	3	330	374	745	788	1308	1938	1416	1577
	4	374	403	887	1010	1348	1956	1448	1612
	5	625	698	1210	1257	1723	2121	1839	1929
MPH 660	4	370	399	903	1042	1460	2376	1596	1830
	5	624	699	1282	1343	1997	2663	2182	2331
MPH 850	1	775	1041	1246	1568	2242	3311	2371	2625
	2	1176	1522	1682	1747	2449	3378	2684	2886
	3	1490	1914	1995	2014	3035	3405	3144	3220
	4	1668	2088	2305	2363	3169	3517	3272	3378

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

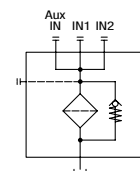
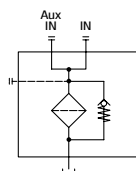
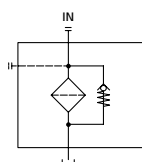
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

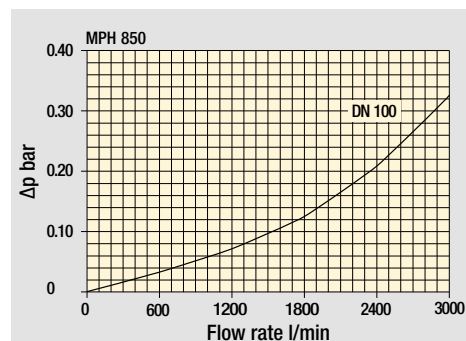
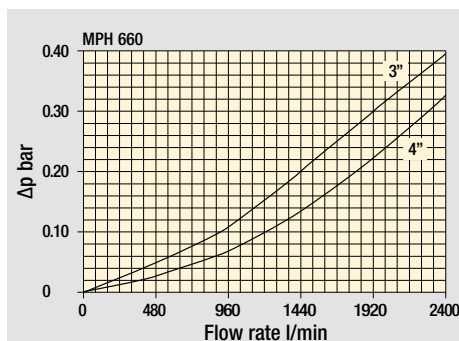
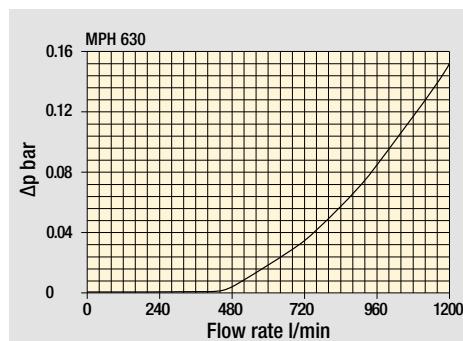
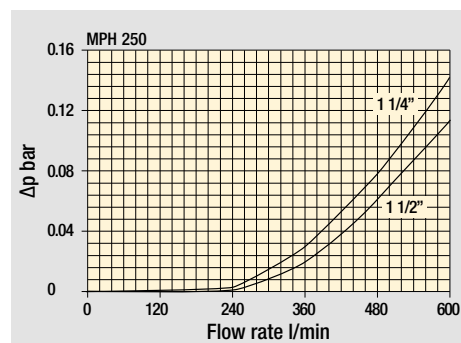
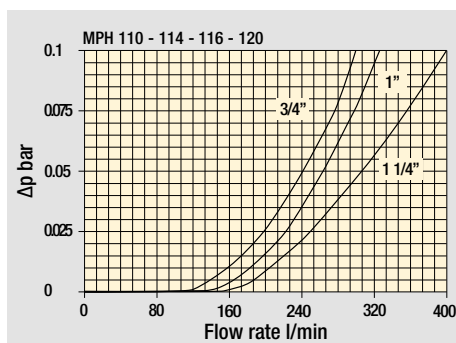
Filter series	Style 1 connection	Style 2 connections	Style 3 connections
MPH 110	-	•	-
MPH 114	•	-	-
MPH 116	•	-	-
MPH 120	-	-	•
MPH 250	•	•	-
MPH 630	•	•	-
MPH 660	•	-	-
MPH 850	-	•	-



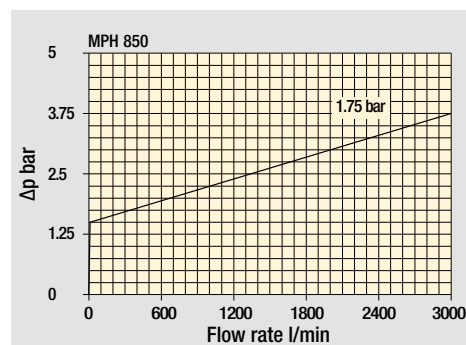
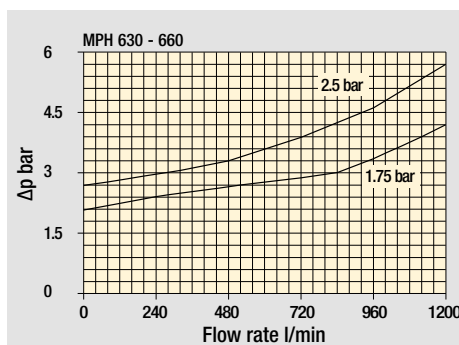
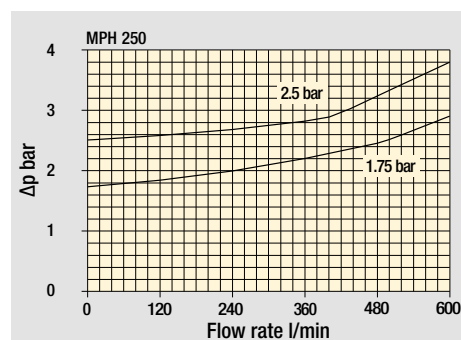
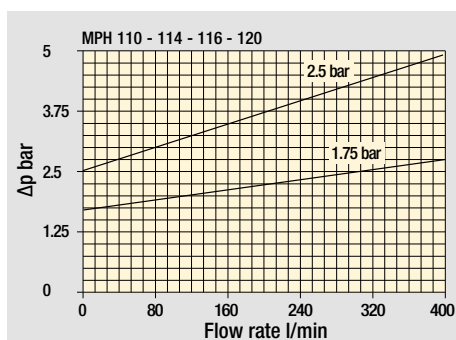
MPH GENERAL INFORMATION

Pressure drop

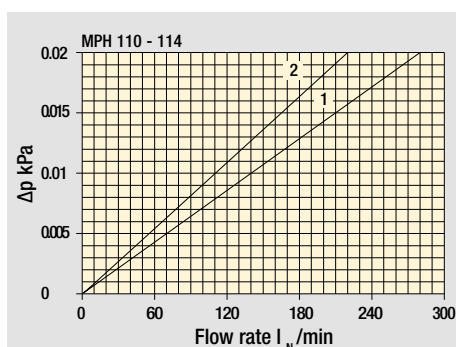
Filter housings Δp pressure drop



Bypass valve pressure drop



Air breather pressure drop



- 1 ☐ C With air breather 10 μ m
- 2 ☐ D With anti-splash and SAP50 10 μ m

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

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH110 1 S D S A G1 1 A10 P01										
MPH110												
Length												
1 2 3 4 5												
Bypass valve												
S Without bypass C 1.75 bar E 2.5 bar												
Diffuser and magnetic filter												
D With diffuser, with magnetic filter												
F With diffuser, without magnetic filter												
O Without diffuser, with magnetic filter												
E Without diffuser, without magnetic filter												
Air breather												
S Without air breather												
C With air breather 10 µm												
D With anti-splash and air breather SAP050 10 µm												
P With anti-splash and air breather SAP050 10 µm pressurization 0.5 bar												
Seals and treatments		Filtration rating										
		Axx	Mxx	Pxx								
A NBR		•	•	•								
V FPM		•	•	•								
W NBR head anodized filter element compatible with fluids HFA-HFB-HFC		•	•	-								
Z FPM head anodized		•	•	-								
Main Connections		Aux size 1		Aux size 2		Main Connections		Aux size 1		Aux size 2		
G1 G 3/4"		G 3/8"		G 1/2"		G7 SAE 12 - 1 1/16" - 12 UN		SAE 6 - 9/16" - 18 UNF		SAE 8 - 3/4" - 16 UNF		
G2 G 1"						G8 SAE 16 - 1 5/16" - 12 UN						
G3 G 1 1/4"						G9 SAE 20 - 1 5/8" - 12 UN						
G4 3/4" NPT												
G5 1" NPT												
G6 1 1/4" NPT		3/8" NPT		1/2" NPT								
Aux connection - see previous table												
0 Not machined 1 Aux size 1 2 Aux size 2												
Filtration rating (filter media)												
A03 Inorganic microfiber 3 µm				M25 Wire mesh 25 µm								
A06 Inorganic microfiber 6 µm				M60 Wire mesh 60 µm								
A10 Inorganic microfiber 10 µm				M90 Wire mesh 90 µm								
A16 Inorganic microfiber 16 µm				P10 Resin impregnated paper 10 µm								
A25 Inorganic microfiber 25 µm				P25 Resin impregnated paper 25 µm								
All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC												
Execution												
P01 MP Filtri standard												
Pxx Customized												

FILTER ELEMENT

Element series and size		Configuration example: MR100 1 A10 A P01			
MR100					
Element length					
1 2 3 4 5					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm			
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm			
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm			
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm			
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm			
Seals		Execution			
A NBR		P01 MP Filtri standard			
V FPM		Pxx Customized			

CLOGGING INDICATORS

See page 680-681

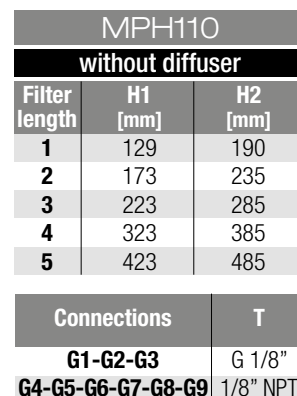
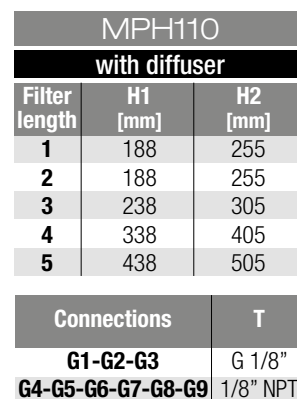
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

ADDITIONAL FEATURES

See page 262

DPT Dipstick



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH114									
MPH114		3	C	E	C	Z	G6	M60	P01		
Length											
1 2 3 4 5											
Bypass valve											
S Without bypass		C	1.75 bar	E	2.5 bar						
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Air breather											
S Without air breather											
C With air breather 10 µm											
D With anti-splash and air breather SAP050 10 µm											
P With anti-splash and air breather SAP050 10 µm pressurization 0.5 bar											
Seals and treatments		Filtration rating									
		Axx	Mxx	Pxx							
A NBR		•	•	•							
V FPM		•	•	•							
W NBR head anodized		•	•	-	filter element compatible with fluids HFA-HFB-HFC						
Z FPM head anodized		•	•	-							
Connections											
G1 G 3/4"		G6 1 1/4" NPT									
G2 G 1"		G7 SAE 12 - 1 1/16" - 12 UN									
G3 G 1 1/4"		G8 SAE 16 - 1 5/16" - 12 UN									
G4 3/4" NPT		G9 SAE 20 - 1 5/8" - 12 UN									
G5 1" NPT											
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm									
All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC											
		Execution									
		P01 MP Filtri standard									
		Pxx Customized									

FILTER ELEMENT

Element series and size		Configuration example: MR100				
MR100		3	M60	V	P01	
Element length						
1 2 3 4 5						
Filtration rating (filter media)						
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm				
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm				
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm				
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm				
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm				
		Seals		Execution		
		A NBR		P01 MP Filtri standard		
		V FPM		Pxx Customized		

CLOGGING INDICATORS

See page 680-681

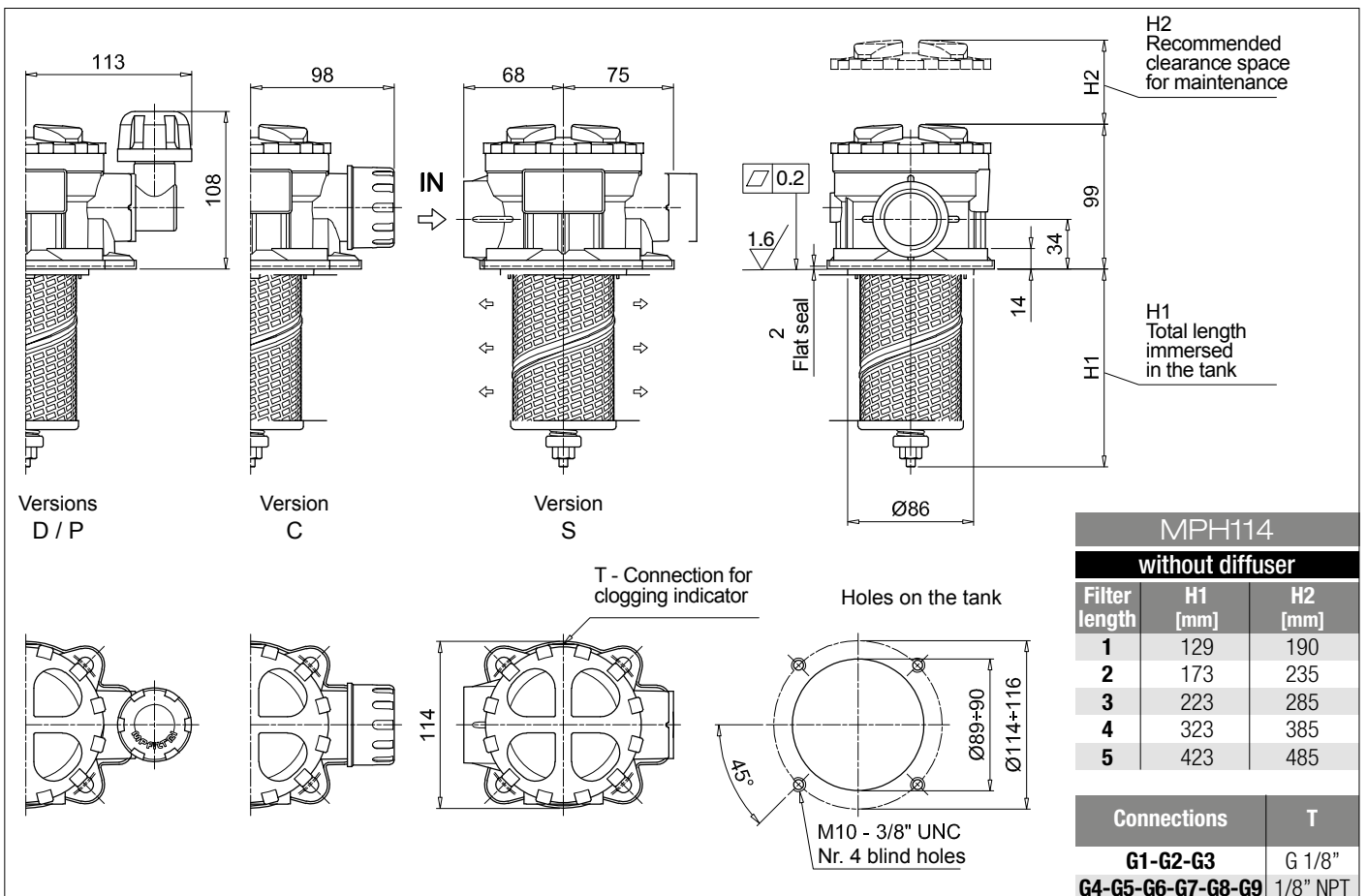
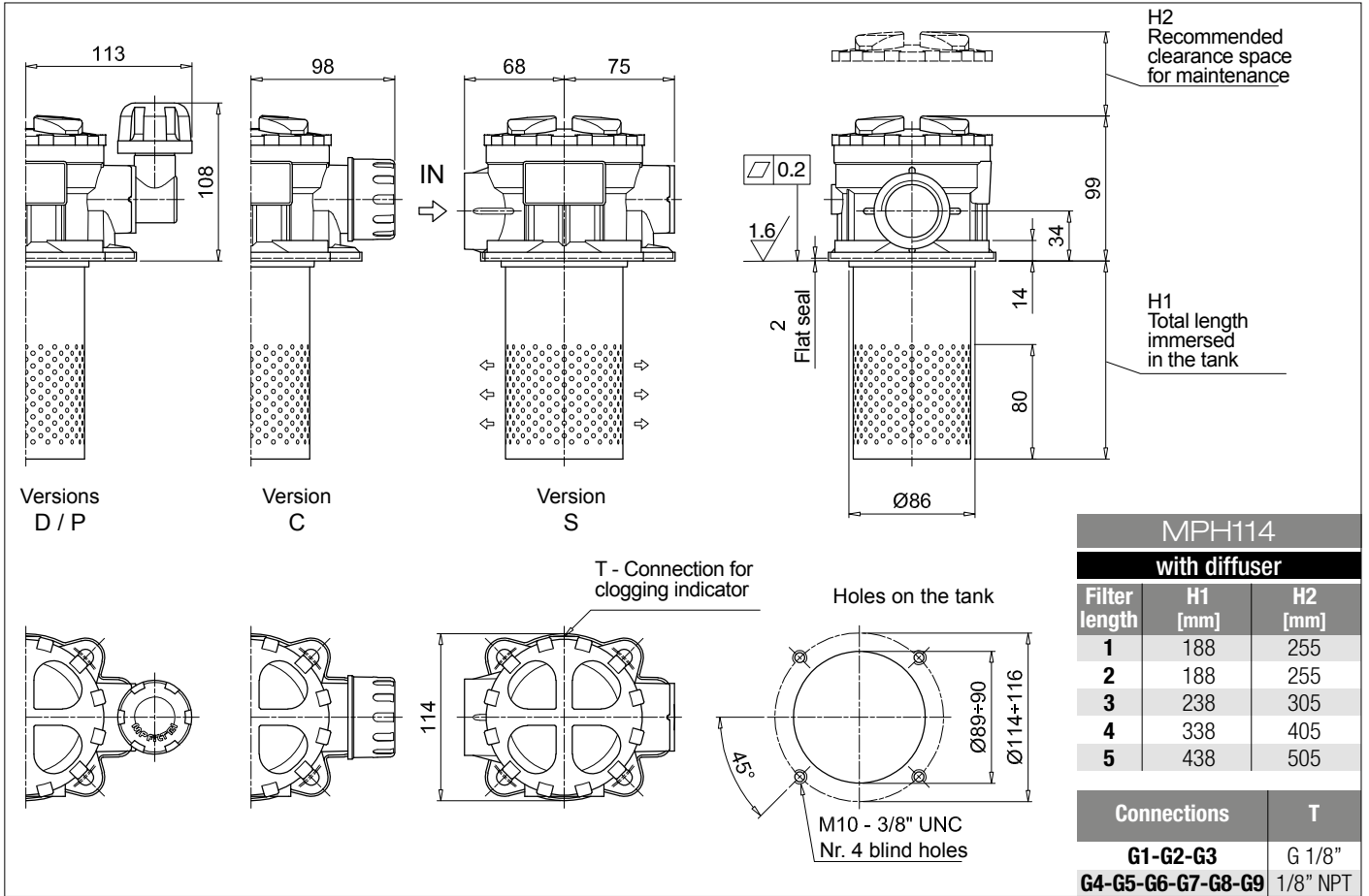
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

ADDITIONAL FEATURES

See page 262

DPT Dipstick



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH116									
MPH116		5	S	D	S	A	G1	A10	P01		
Length											
1 2 3 4 5											
Bypass valve											
S Without bypass		C 1.75 bar	E 2.5 bar								
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Air breather											
S Without air breather											
Seals and treatments		Filtration rating									
		Axx	Mxx	Pxx							
A NBR		•	•	•							
V FPM		•	•	•							
W NBR head anodized		•	•	-	filter element compatible with fluids HFA-HFB-HFC						
Z FPM head anodized		•	•	-							
Flat seal on the head on request											
Connections											
G1 G 3/4"		G6 1 1/4" NPT									
G2 G 1"		G7 SAE 12 - 1 1/16" - 12 UN									
G3 G 1 1/4"		G8 SAE 16 - 1 5/16" - 12 UN									
G4 3/4" NPT		G9 SAE 20 - 1 5/8" - 12 UN									
G5 1" NPT											
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm									
All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC											
		Execution									
		P01 MP Filtri standard									
		Pxx Customized									

FILTER ELEMENT

Element series and size		Configuration example: MR100			
MR100		5	A10	A	P01
Element length					
1 2 3 4 5					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm			
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm			
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm			
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm			
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm			
		Seals		Execution	
		A NBR		P01 MP Filtri standard	
		V FPM		Pxx Customized	

CLOGGING INDICATORS

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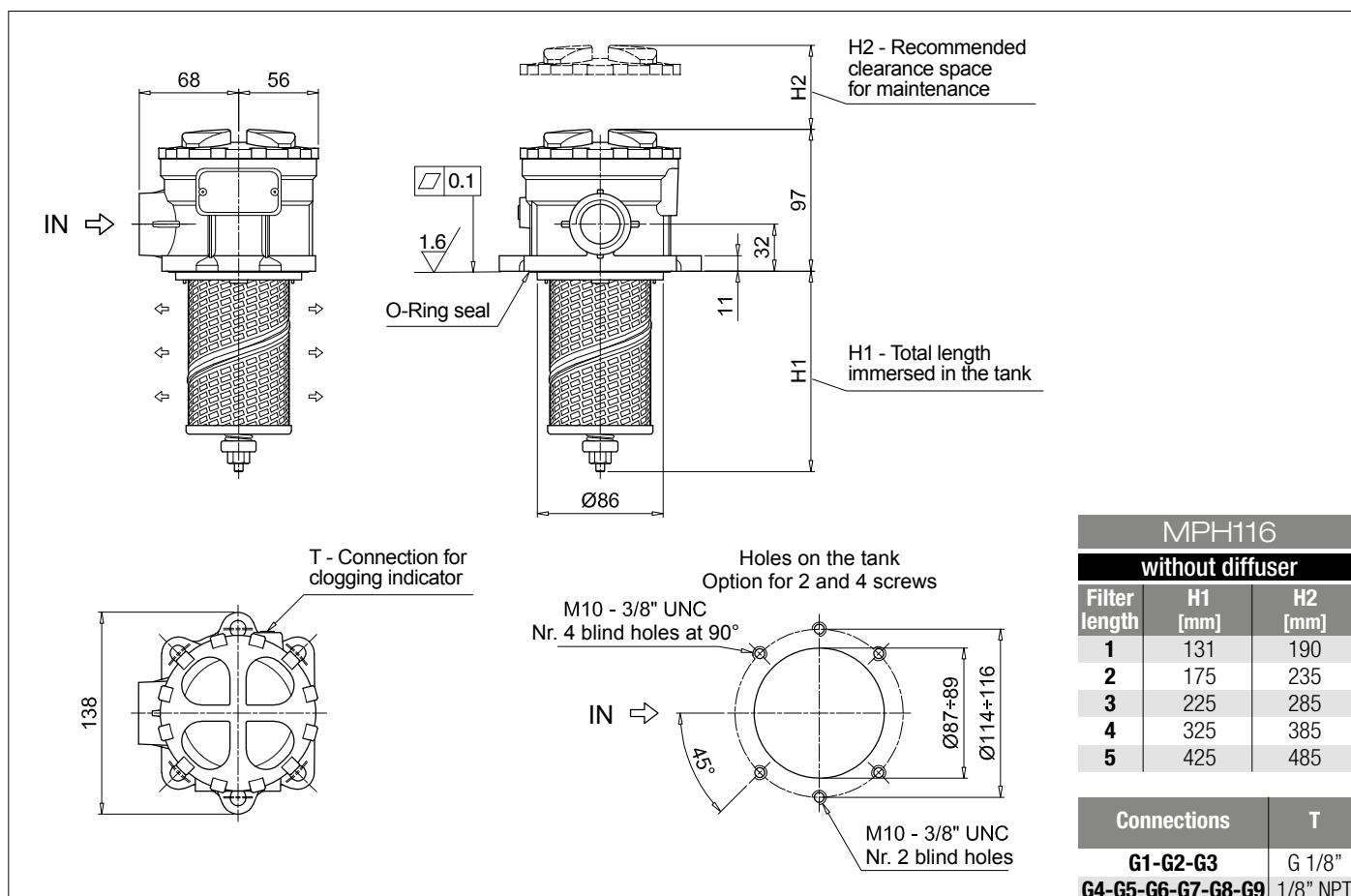
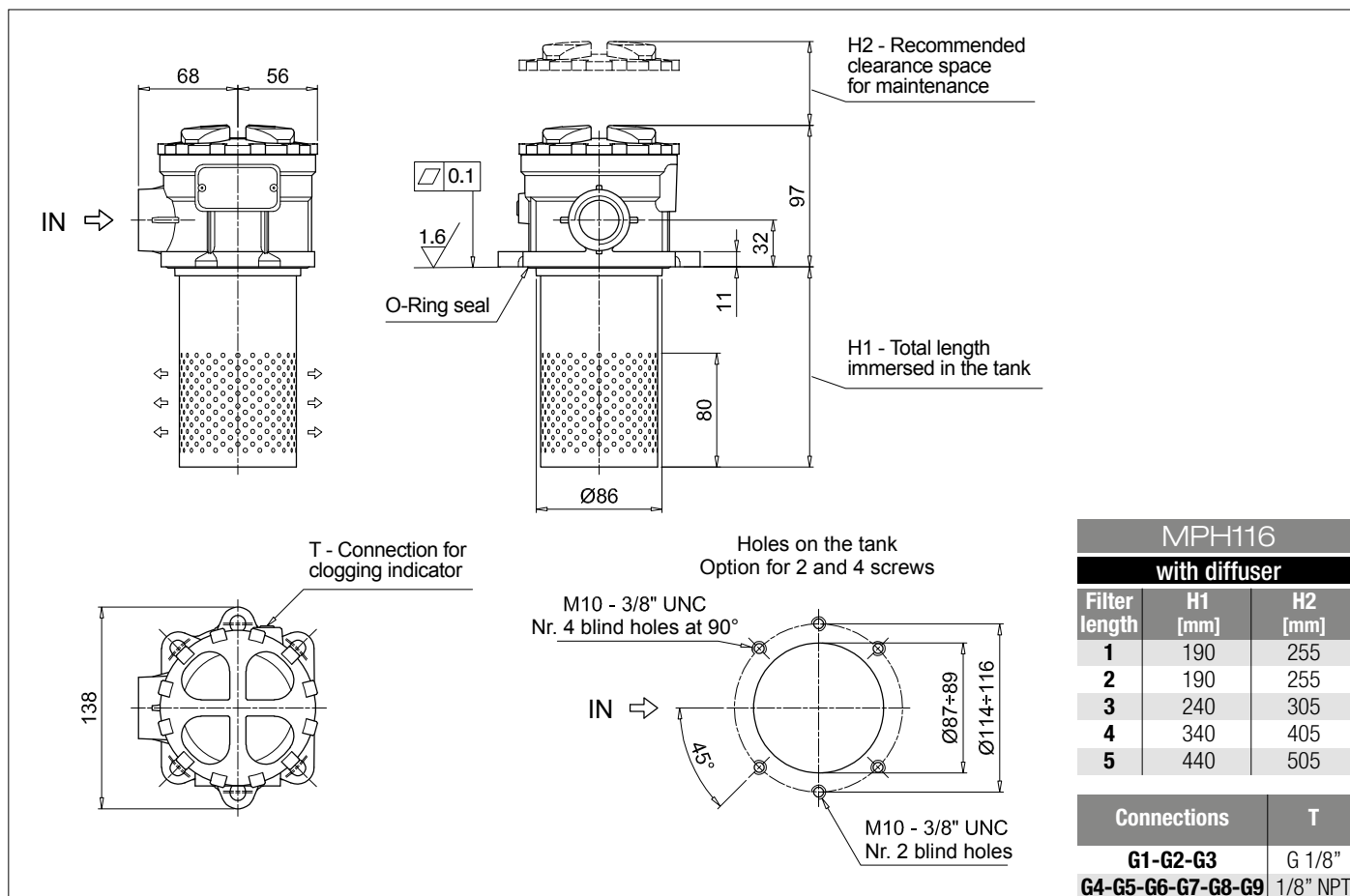
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

ADDITIONAL FEATURES

See page 262

DPT Dipstick



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH120									
MPH120		1	S	D	A	G1	1	A10	P01		
Length											
1 2 3 4 5											
Bypass valve											
S Without bypass		C 1.75 bar		E 2.5 bar							
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Seals and treatments		Filtration rating									
A NBR		Axx	Mxx	Pxx							
V FPM		•	•	•							
W NBR head anodized		•	•	-							
Z FPM head anodized		•	•	-							
Main Connections		Rear connections		Aux size 1		Aux size 2					
G1 G 3/4"		G 3/4"		G 3/8"		G 1/2"					
G2 G 1"		G 1"									
G3 G 1 1/4"		G 3/4"									
G4 3/4" NPT		3/4" NPT									
G5 1" NPT		1" NPT		3/8" NPT		1/2" NPT					
G6 1 1/4" NPT		3/4" NPT									
G7 SAE 12 - 1 1/16" - 12 UN		SAE 12 - 1 1/16" - 12 UN									
G8 SAE 16 - 1 5/16" - 12 UN		SAE 16 - 1 5/16" - 12 UN		SAE 6 - 9/16" - 18 UNF		SAE 8 - 3/4" - 16 UNF					
G9 SAE 20 - 1 5/8" - 12 UN		SAE 12 - 1 1/16" - 12 UN									
Aux connection - see previous table											
0 Not machined		1 Aux size 1		2 Aux size 2							
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm									
All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC											
										Execution	
										P01 MP Filtri standard	
										Pxx Customized	

FILTER ELEMENT

Element series and size		Configuration example: MR100			
MR100		1	A10	A	P01
Element length					
1 2 3 4 5					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm			
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm			
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm			
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm			
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm			
		Seals		Execution	
		A NBR		P01 MP Filtri standard	
		V FPM		Pxx Customized	

CLOGGING INDICATORS

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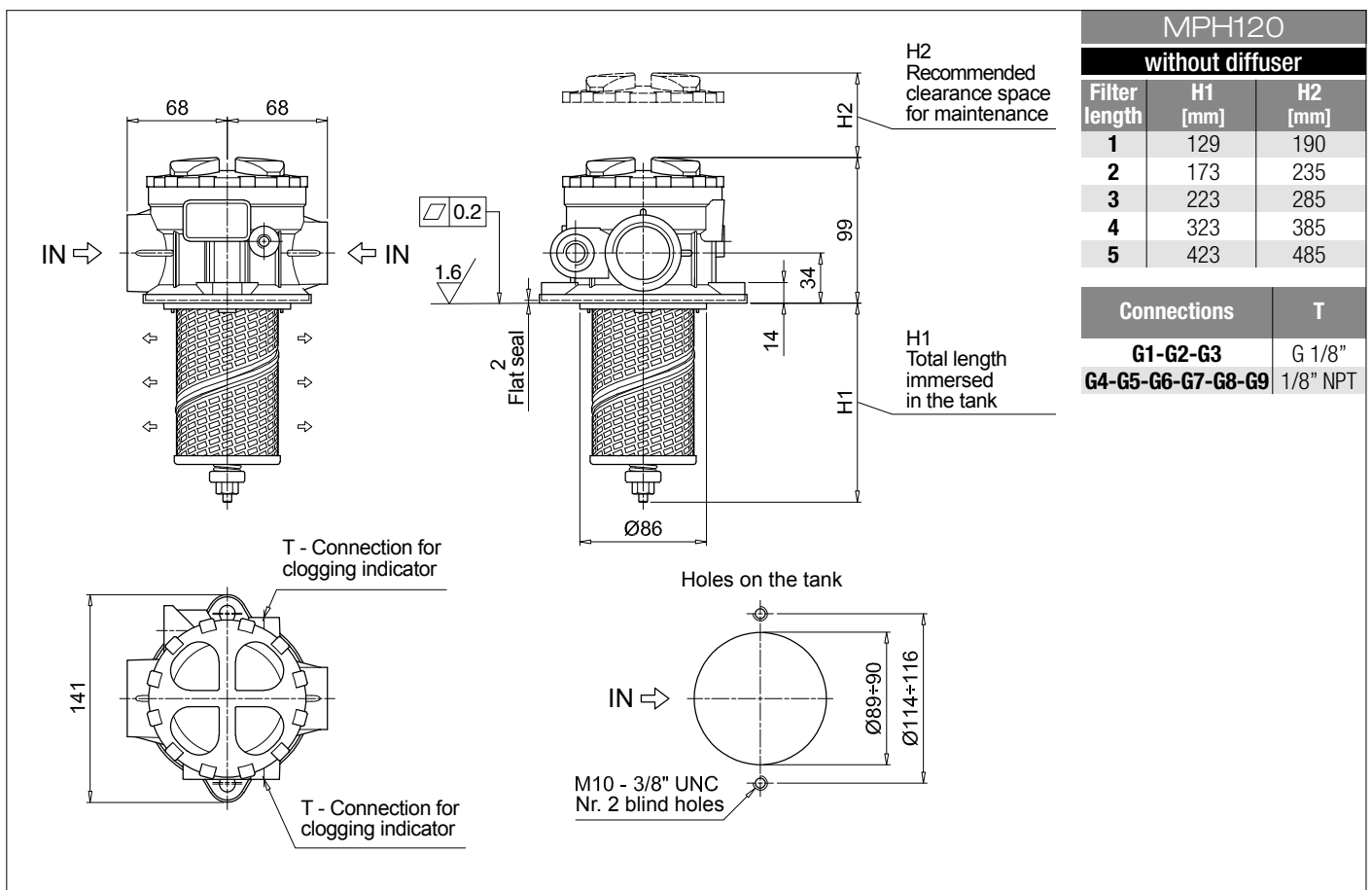
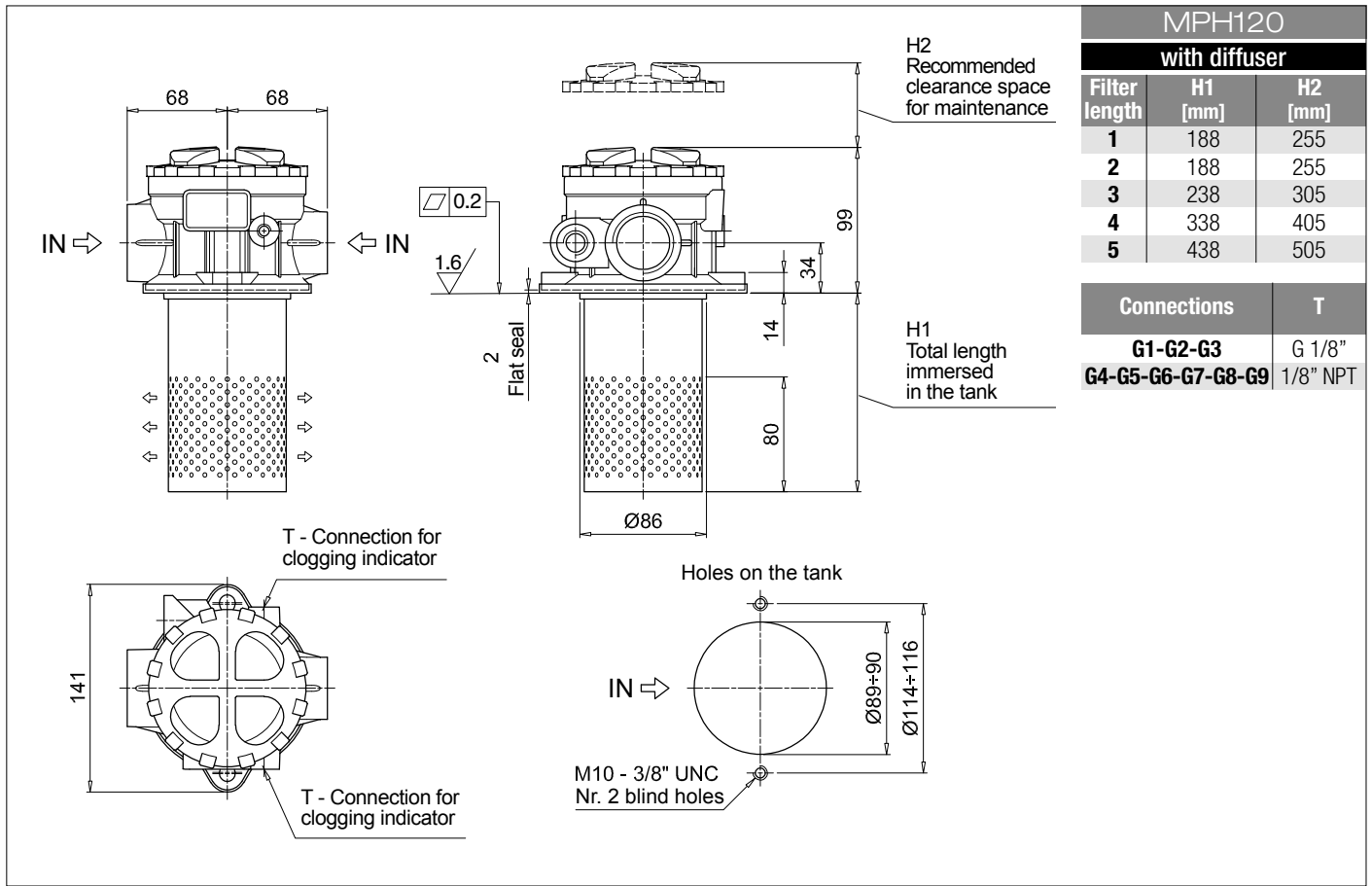
BVA	Axial pressure gauge
BVR	Radial pressure gauge
BVP	Visual pressure indicator with automatic reset
BRV	Visual pressure indicator with manual reset

BEA	Electrical pressure indicator
BEM	Electrical pressure indicator
BLA	Electrical / visual pressure indicator

ADDITIONAL FEATURES

See page 262

DPT	Dipstick
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Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH250									
MPH250		1	C	D	S	A	G1	A10	P01		
Length											
1 2 3 4											
Bypass valve											
S Without bypass		C	1.75 bar	E	2.5 bar						
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Air breather											
S Without air breather											
Seals and treatments		Filtration rating									
		Axx	Mxx	Pxx							
A NBR		•	•	•							
V FPM		•	•	•							
W NBR head anodized		•	•	-							
Z FPM head anodized		•	•	-							
Main Connections		Rear connections									
G1 G 1 1/2"		-									
G2 G 1 1/2"		G 1 1/4"									
G4 1 1/2" NPT		-									
G5 1 1/2" NPT		1 1/4" NPT									
G7 SAE 24 - 1 7/8" - 12 UN		-									
G8 SAE 24 - 1 7/8" - 12 UN		SAE 20 - 1 5/8" - 12 UN									
F1 1 1/2" SAE 3000 psi/M		-									
F2 1 1/2" SAE 3000 psi/M		1 1/4" SAE 3000 psi/M									
F3 1 1/2" SAE 3000 psi/UNC		-									
F4 1 1/2" SAE 3000 psi/UNC		1 1/4" SAE 3000 psi/UNC									
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm									
All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC											
Execution											
P01 MP Filtri standard											
Pxx Customized											

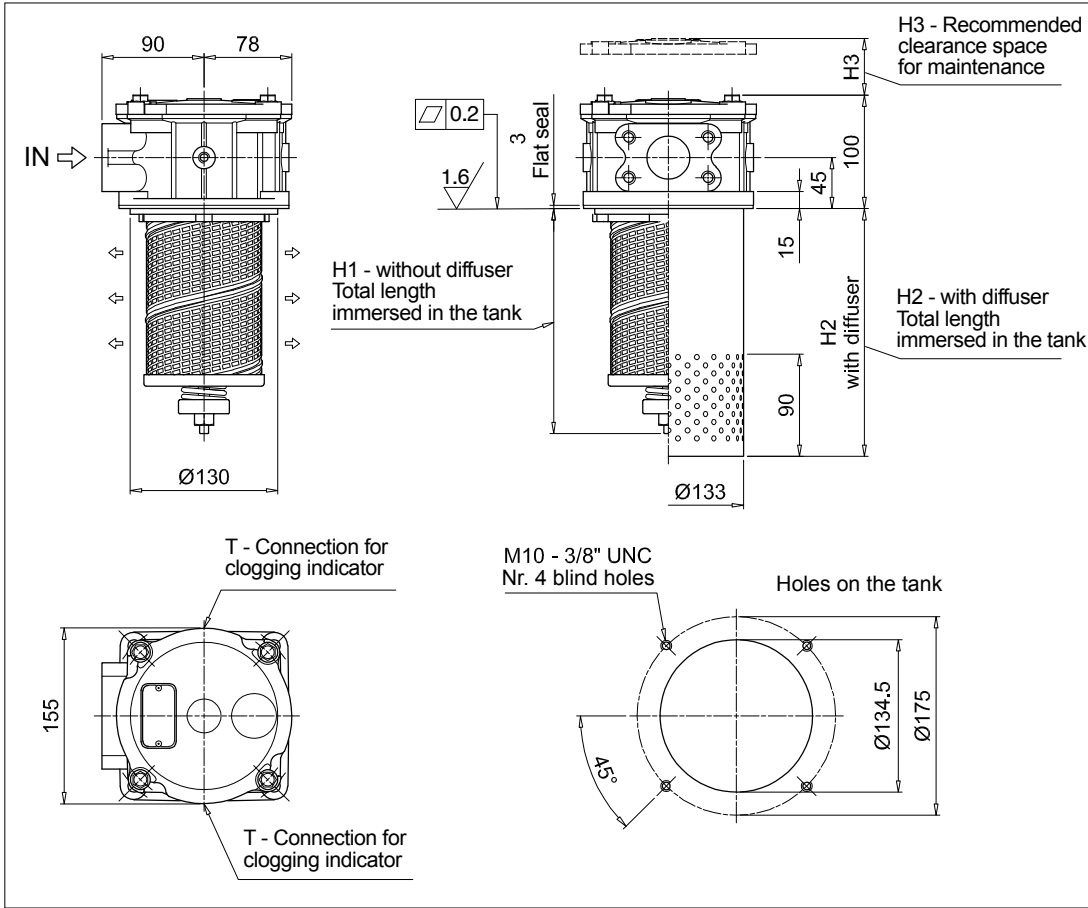
FILTER ELEMENT

Element series and size		Configuration example: MR250			
MR250		1	A10	A	P01
Element length					
1 2 3 4					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm			
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm			
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm			
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm			
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm			
Seals		Execution			
A NBR		P01 MP Filtri standard			
V FPM		Pxx Customized			

CLOGGING INDICATORS

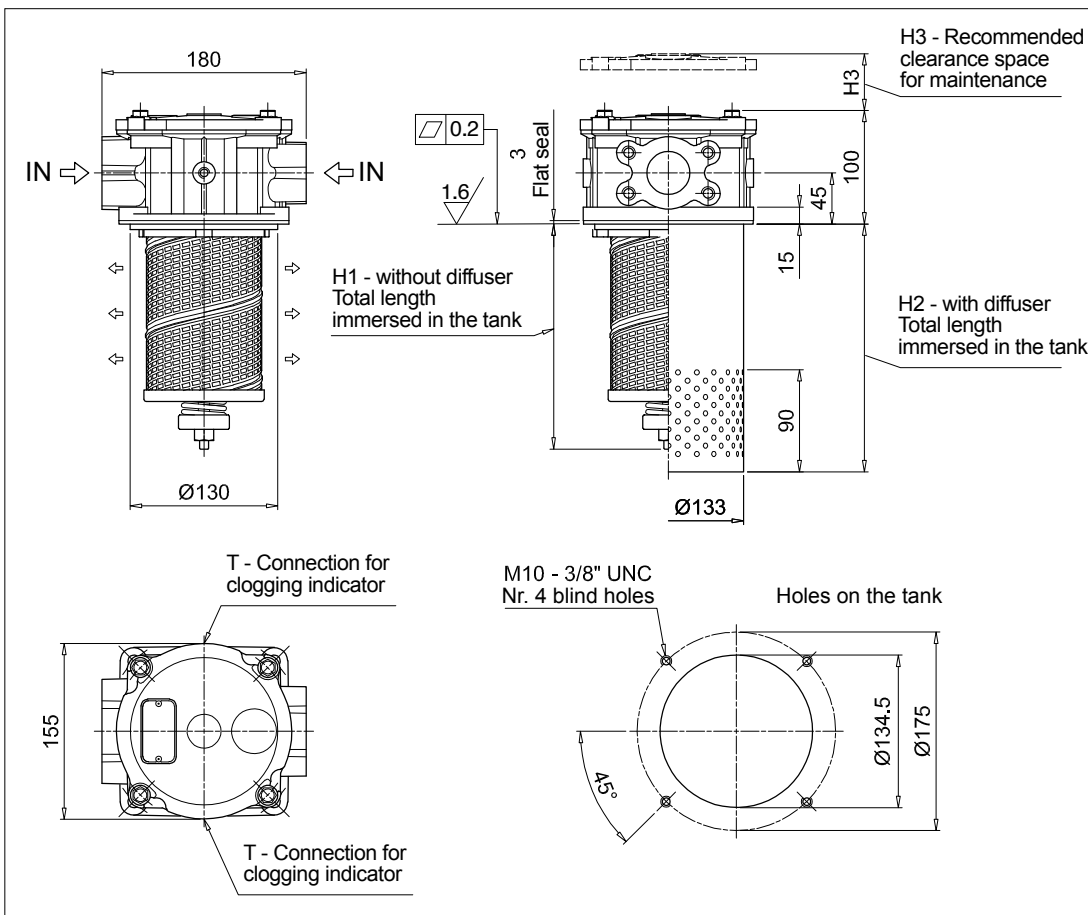
See page 680-681

BVA Axial pressure gauge	BEA Electrical pressure indicator
BVR Radial pressure gauge	BEM Electrical pressure indicator
BVP Visual pressure indicator with automatic reset	BLA Electrical / visual pressure indicator
BVQ Visual pressure indicator with manual reset	



MPH250			
1 connection port			
Filter length	H1 [mm]	H2 [mm]	H3 [mm]
1	182	247	255
2	231	247	305
3	302	317	375
4	502	507	580

Connections	T
G1-G2-G3	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT
F1-F2	G 1/8"
F3-F4	1/8" NPT



MPH250			
2 connection ports			
Filter length	H1 [mm]	H2 [mm]	H3 [mm]
1	182	247	255
2	231	247	305
3	302	317	375
4	502	507	580

Connections	T
G1-G2-G3	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT
F1-F2	G 1/8"
F3-F4	1/8" NPT

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH630 1 S E S W F1 M25 P01									
MPH630											
Length											
1 2 3 4 5											
Bypass valve											
S Without bypass C 1.75 bar E 2.5 bar											
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Air breather											
S Without air breather											
Seals and treatments		Filtration rating									
		Axx Mxx Pxx									
A NBR		• • •									
V FPM		• • •									
W NBR head anodized		• • -									
Z FPM head anodized		• • -									
		filter element compatible with fluids HFA-HFB-HFC									
Main Connections		Rear connections									
F1 2 1/2" SAE 3000 psi/M		-									
F2 2 1/2" SAE 3000 psi/M		2" SAE 3000 psi/M									
F3 2 1/2" SAE 3000 psi/UNC		-									
F4 2 1/2" SAE 3000 psi/UNC		2" SAE 3000 psi/UNC									
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm									
		Execution									
		P01 MP Filtri standard									
		Pxx Customized									

All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC

FILTER ELEMENT

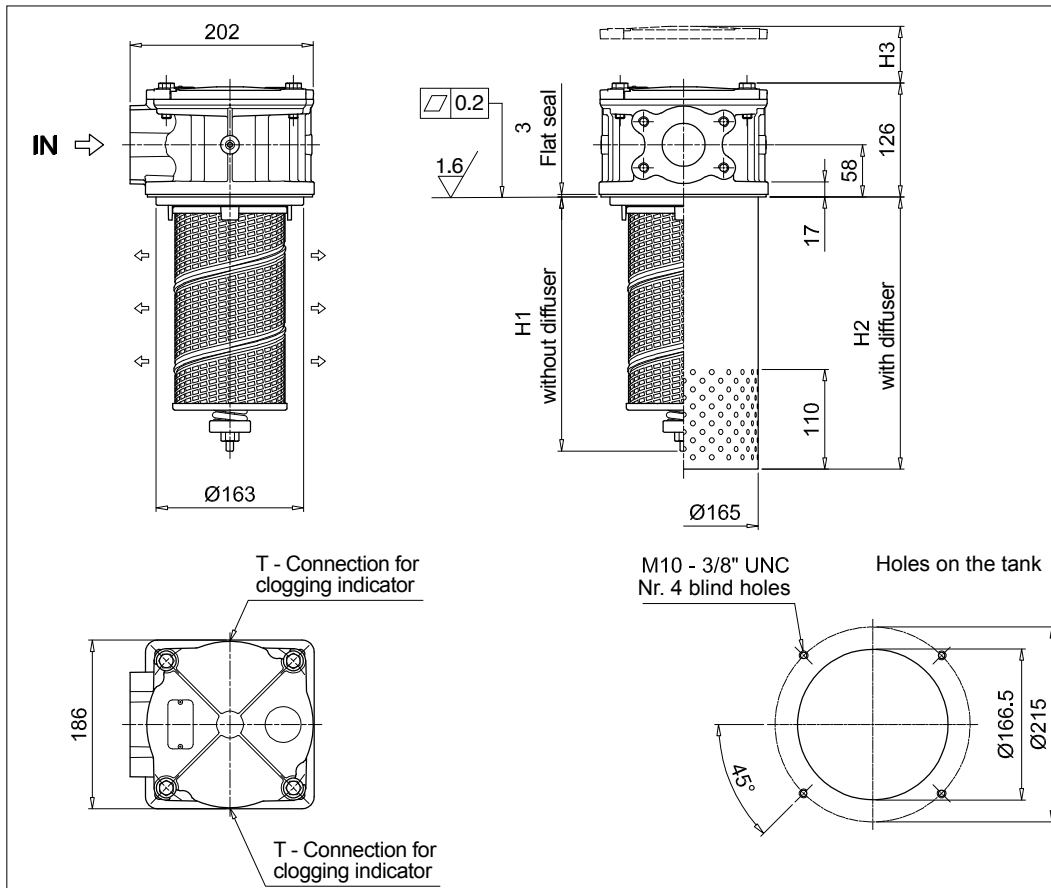
Element series and size		Configuration example: MR630 1 M25 A P01			
MR630					
Element length					
1 2 3 4 5					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm			
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm			
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm			
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm			
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm			
		Seals			
		A NBR			
		V FPM			
		Execution			
		P01 MP Filtri standard			
		Pxx Customized			

CLOGGING INDICATORS

See page 680-681

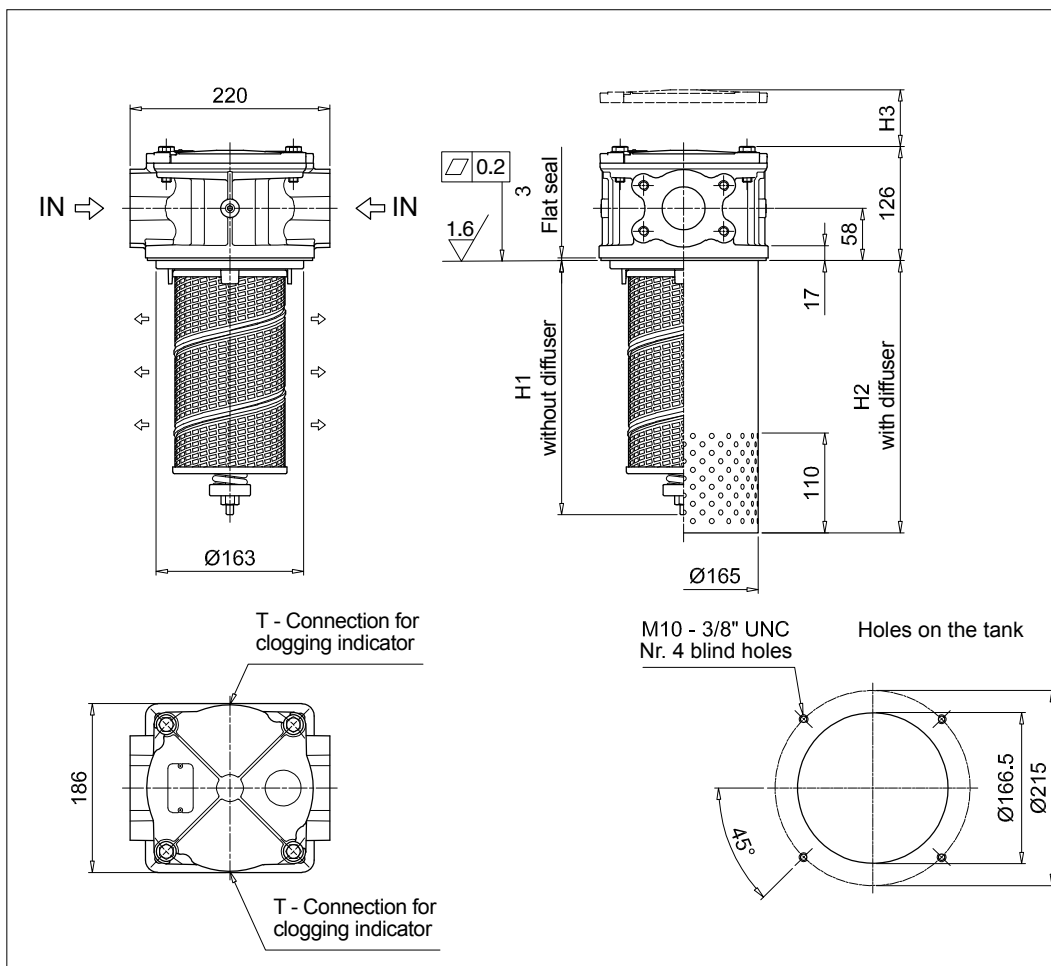
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator



MPH630			
1 connection port			
Filter length	H1 [mm]	H2 [mm]	H3 [mm]
1	260	278	330
2	340	358	410
3	440	458	510
4	528	548	600
5	829	848	900

Connections	T
F1	G 1/8"
F3	1/8" NPT



MPH630			
2 connection ports			
Filter length	H1 [mm]	H2 [mm]	H3 [mm]
1	260	278	330
2	340	358	410
3	440	458	510
4	528	548	600
5	829	848	900

Connections	T
F2	G 1/8"
F4	1/8" NPT

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH660									
MPH660		4	C	D	S	A	F2	A10	P01		
Length											
4 5											
Bypass valve											
S Without bypass		C 1.75 bar	E 2.5 bar								
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Air breather											
S Without air breather											
Seals and treatments		Filtration rating									
		Axx	Mxx	Pxx							
A NBR		•	•	•							
V FPM		•	•	•							
W NBR head anodized		•	•	-							
Z FPM head anodized		•	•	-							
Main Connections											
F1 3" SAE 3000 psi/M											
F2 4" SAE 3000 psi/M											
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm											
A06 Inorganic microfiber 6 µm											
A10 Inorganic microfiber 10 µm											
A16 Inorganic microfiber 16 µm											
A25 Inorganic microfiber 25 µm											
M25 Wire mesh 25 µm											
M60 Wire mesh 60 µm											
M90 Wire mesh 90 µm											
P10 Resin impregnated paper 10 µm											
P25 Resin impregnated paper 25 µm											
Execution											
P01 MP Filtri standard											
Pxx Customized											

All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC

FILTER ELEMENT

Element series and size		Configuration example: MR630			
MR630		5	M25	A	P01
Element length					
4 5					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm					
A06 Inorganic microfiber 6 µm					
A10 Inorganic microfiber 10 µm					
A16 Inorganic microfiber 16 µm					
A25 Inorganic microfiber 25 µm					
M25 Wire mesh 25 µm					
M60 Wire mesh 60 µm					
M90 Wire mesh 90 µm					
P10 Resin impregnated paper 10 µm					
P25 Resin impregnated paper 25 µm					
Seals					
A NBR					
V FPM					
Execution					
P01 MP Filtri standard					
Pxx Customized					

CLOGGING INDICATORS

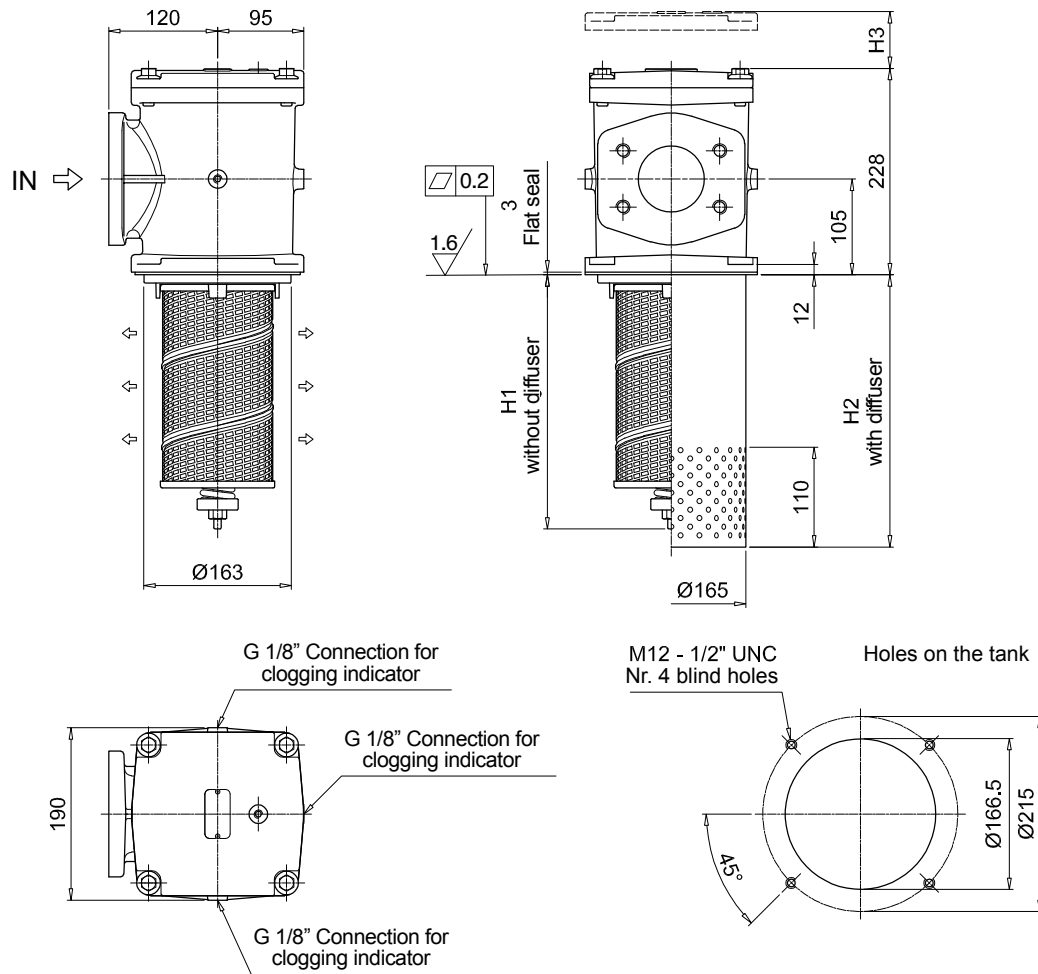
See page 680-681

BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

MPH660

Filter length	H1 [mm]	H2 [mm]	H3 [mm]
4	538	548	610
5	838	848	910



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example: MPH850									
MPH850		1	C	D	S	A	F1	A10	P01		
Length											
1 2 3 4											
Bypass valve											
S Without bypass		C 1.75 bar									
Diffuser and magnetic filter											
D With diffuser, with magnetic filter											
F With diffuser, without magnetic filter											
O Without diffuser, with magnetic filter											
E Without diffuser, without magnetic filter											
Air breather											
S Without air breather											
Seals and treatments		Filtration rating									
		Axx	Mxx	Pxx							
A NBR		•	•	•							
V FPM		•	•	•							
W NBR head anodized		•	•	-							
Z FPM head anodized		•	•	-							
Main Connections		Rear connections									
F1 UNI 2223 DN 100 PN 10/16		3" SAE 3000 psi/M									
F2 UNI 2223 DN 100 PN 10/16		3" SAE 3000 psi/UNC									
F5 Not machined		3" SAE 3000 psi/M									
F6 Not machined		3" SAE 3000 psi/UNC									
F7 4" SAE 3000 psi/M		3" SAE 3000 psi/M									
F8 4" SAE 3000 psi/UNC		3" SAE 3000 psi/UNC									
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm									
		Execution									
		P01 MP Filtri standard									
		Pxx Customized									

All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC

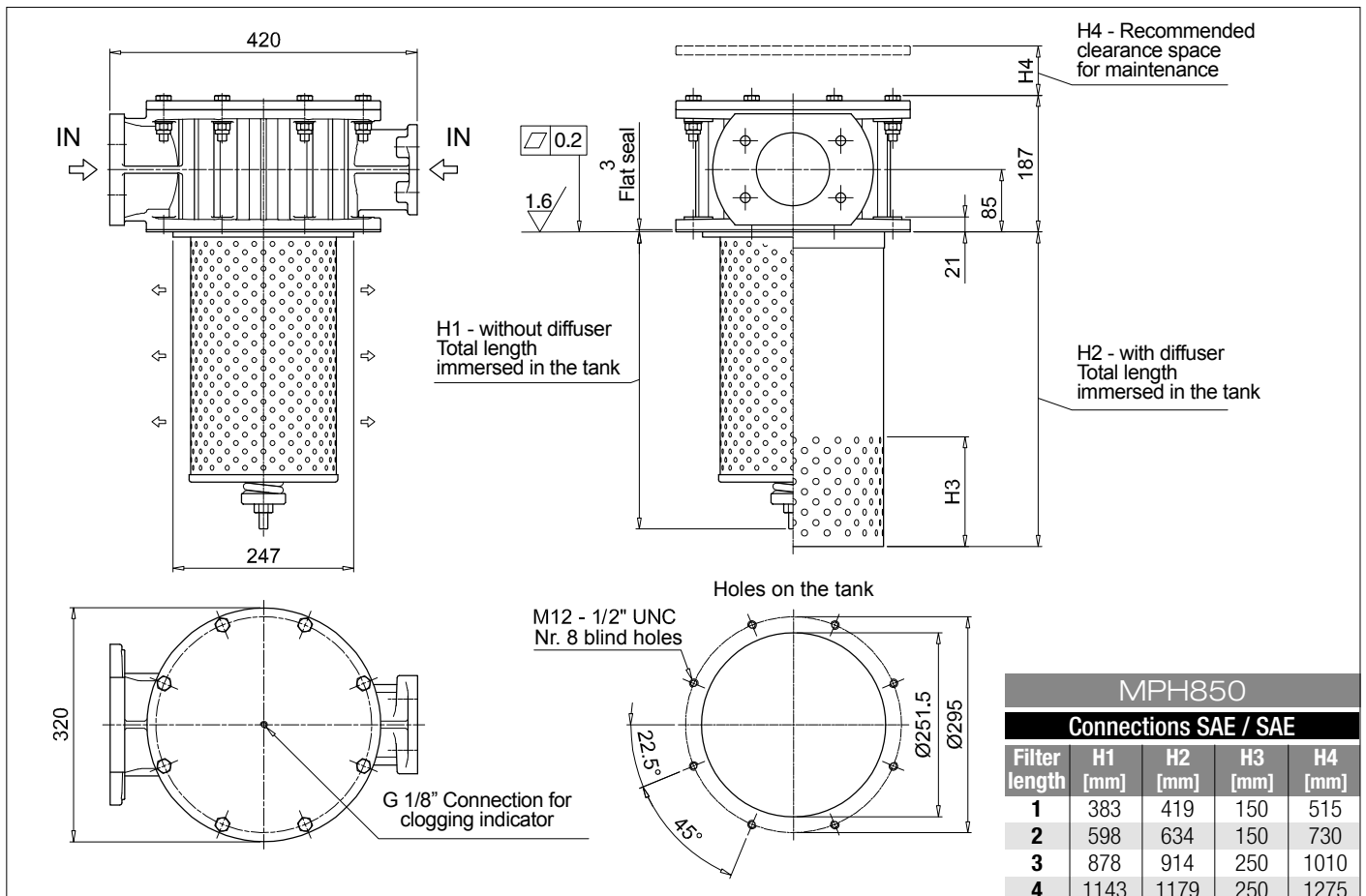
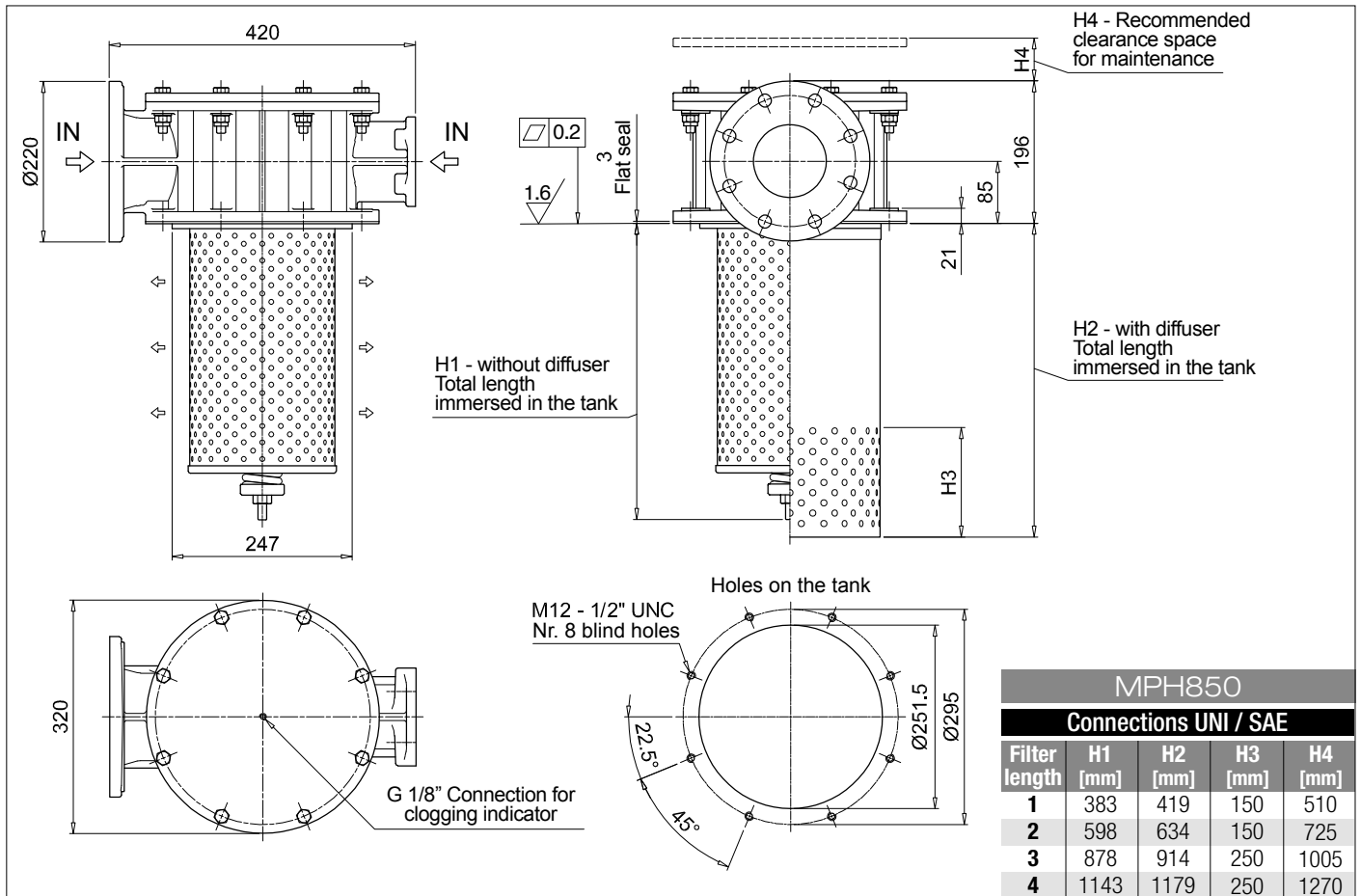
FILTER ELEMENT

Element series and size		Configuration example: MR850				
MR850		1	A10	A	P01	
Element length						
1 2 3 4						
Filtration rating (filter media)						
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm				
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm				
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm				
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm				
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm				
		Seals				
		A NBR				
		V FPM				
		Execution				
		P01 MP Filtri standard				
		Pxx Customized				

CLOGGING INDICATORS

See page 680-681

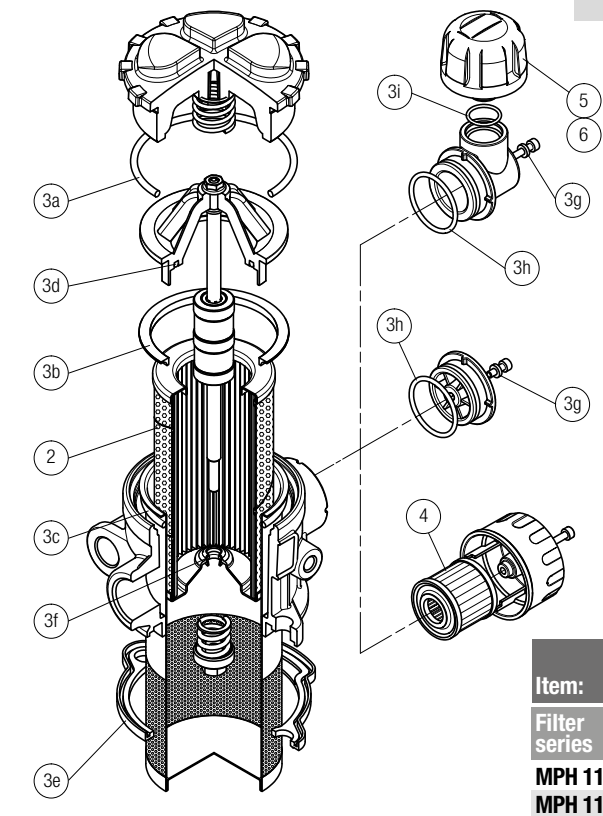
BVA Axial pressure gauge	BEA Electrical pressure indicator
BVR Radial pressure gauge	BEM Electrical pressure indicator
BVP Visual pressure indicator with automatic reset	BLA Electrical / visual pressure indicator
BVQ Visual pressure indicator with manual reset	



MPH SPARE PARTS

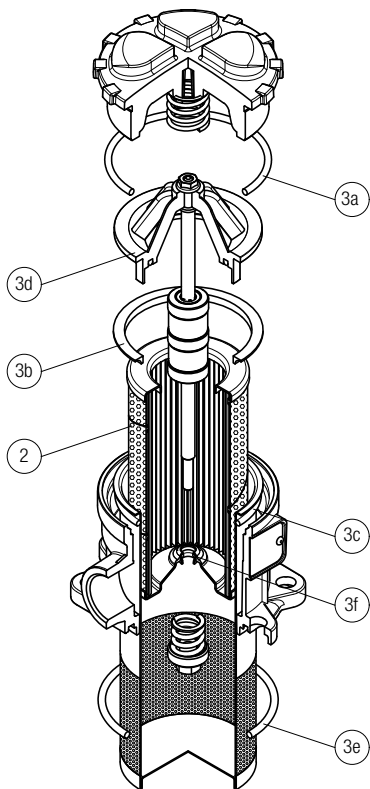
Order number for spare parts

MPH 110 - 114



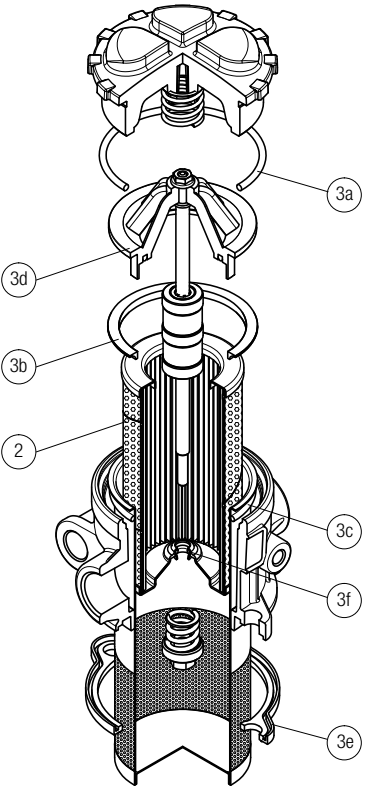
Item:	Q.ty: 1 pc.	Q.ty: 1 pc.		Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.
	2	3 (3a ÷ 3i)		4	5	6
Filter series	Filter element	Seal Kit code number		Air breather filter element - version:		
		NBR	FPM	C	D	P
MPH 110	See order table	02050565	02050566	10 µm	10 µm	10 µm
MPH 114		02050582	02050583	A3L03	SAP50G3L03A0P01	SAP50G3L03A1P01

MPH 116



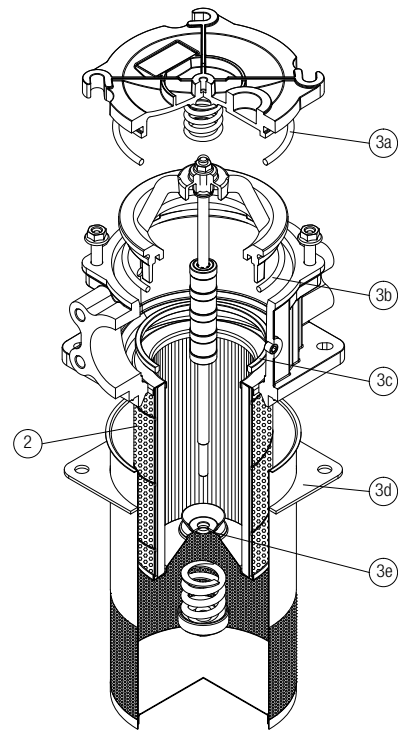
Item:	Q.ty: 1 pc.	Q.ty: 1 pc.
Filter series	Filter element	Seal Kit code number
		NBR FPM
MPH 116	See order table	02050741 02050742

MPH 120



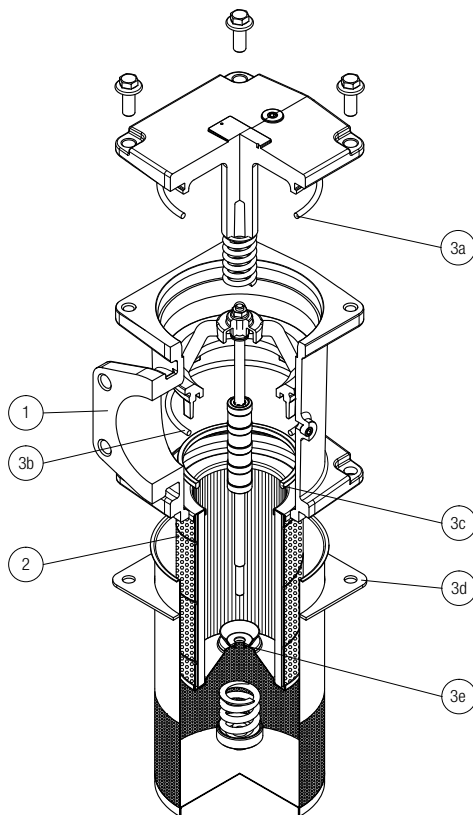
Item:	Q.ty: 1 pc.	Q.ty: 1 pc.
Filter series	Filter element	Seal Kit code number
		NBR FPM
MPH 120	See order table	02050567 02050568

MPH 250 - 630



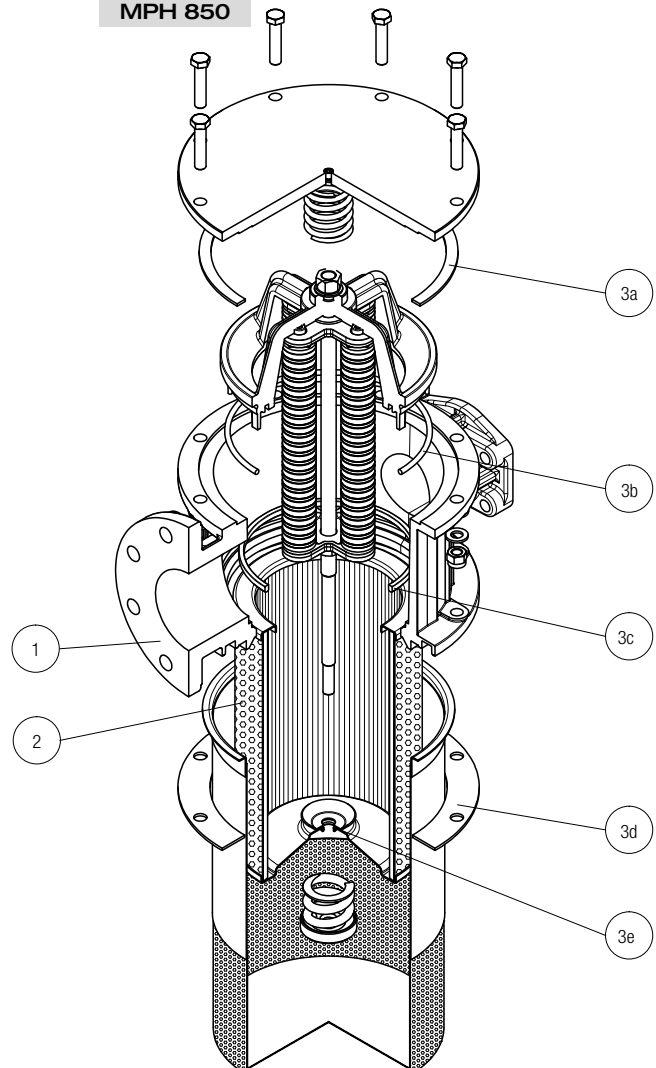
Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.
	2	3 (3a ÷ 3e)	
Filter series	Filter element	Seal Kit code number NBR	Seal Kit code number FPM
MPH 250	See order table	02050151	02050152
MPH 630	See order table	02050153	02050154

MPH 660



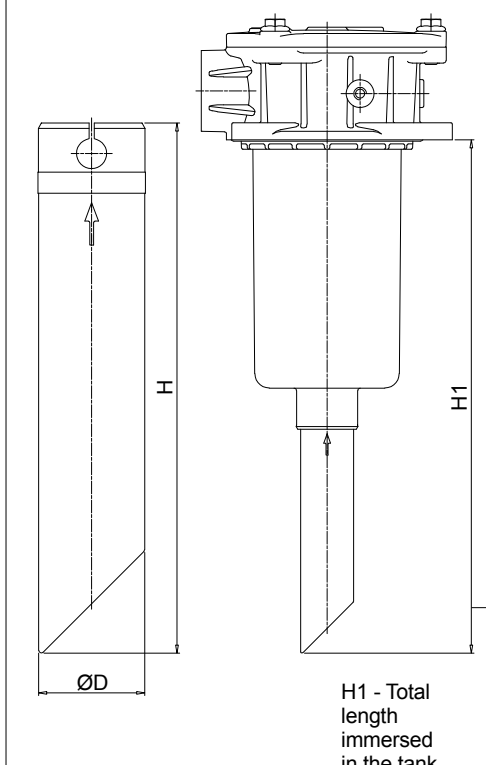
Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.
	2	3 (3a ÷ 3e)	
Filter series	Filter element	Seal Kit code number NBR	Seal Kit code number FPM
MPH 660	See order table	02050153	02050154
MPH 850	See order table	02050155	02050156

MPH 850



Accessories

POLYAMIDE EXTENSION TUBE



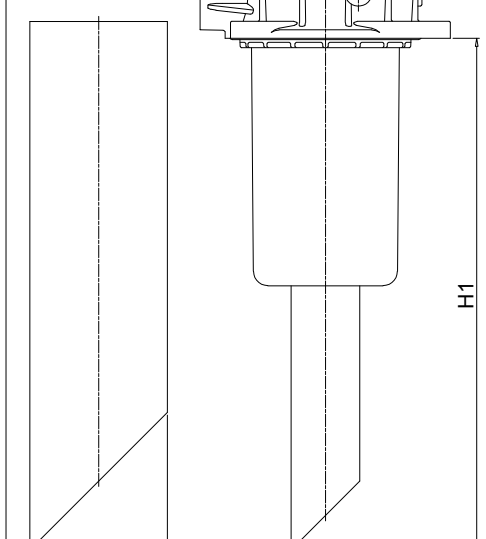
Configuration example: **TE** **40** **A** **250**

Series	Size	ø D [mm]	Material
TE	25	25	A Polyamide
	32	32	
	40	40	

Length	H [mm]
200	200
250	250
300	300
350	350
400	400
450	450
500	500

COMPATIBILITY TABLE																
		Tube length														
Filter series	Filter size			Filter length	TE25	TE32	TE40	200	250	300	350	400	450	500		
H1 [mm]																
MPF - MPFX	30			1	•	-	-	266	316	366	416	466	516	566		
MPF	100	104	110	1	-	•	-	275	325	375	425	475	525	575		
				2	-	-	322	372	422	472	522	572	622			
				3	-	-	400	450	500	550	600	650	700			
				4	-	-	502	552	602	652	702	752	802			
MPFX	100	104	110	1	-	-	•	277	327	377	427	477	527	577		
				2	-	-	•	322	372	422	472	522	572	622		
				3	-	-	•	400	450	500	550	600	650	700		
				4	-	-	•	502	552	602	652	702	752	802		
MPF MPFX	181	182	184	1	-	-	•	410	460	510	560	610	660	710		
				2	-	-	•	623	673	723	773	823	873	923		
MPT MPTX	025		027	1	•	-	-	278	328	378	428	478	528	578		
				2	-	-	•	342	392	442	492	542	592	642		
				3	-	-	•	380	430	480	530	580	630	680		
MPT	101	104	110	114	120	1	-	•	-	273	323	373	423	473	523	573
						2	-	-	•	320	370	420	470	520	570	620
						3	-	-	•	396	446	496	546	596	646	696
						4	-	-	•	498	548	598	648	698	748	798
MPTX	101	104	110	114	120	1	-	-	•	273	323	373	423	473	523	573
						2	-	-	•	318	368	418	468	518	568	618
						3	-	-	•	396	446	496	546	596	646	696
						4	-	-	•	498	548	598	648	698	748	798

STEEL EXTENSION TUBE



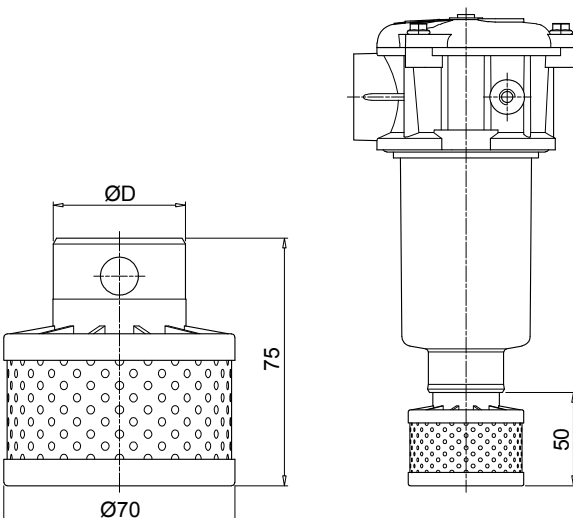
Configuration example:

MPF191 **2** **A** **F1** **A10** **H** **B** **S60**

Length	H1 [mm]
S30	300
S35	350
S40	400
S45	450
S50	500
S60	600
S70	700
S80	800
S90	900

COMPATIBILITY TABLE						
					ø D [mm]	
Filter series	Filter size				Filter length	
MPF	191	192	194	2	•	-
	400	410	450	451	1	•
					2	-
					3	•
	750				1	-

DIFFUSER WITH FAST LOCK CONNECTION



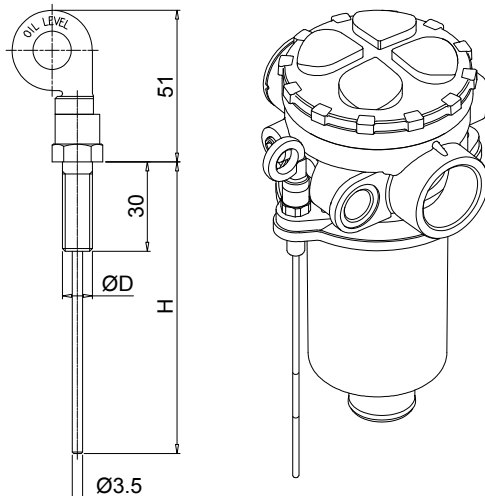
Configuration example: **DFS** **32** **A** **075**

Series	Size	ø D [mm]	Version	Length
DFS	32	32	A Standard	075 Standard
	40	40		

COMPATIBILITY TABLE

Filter series	Filter size					Filter Length	DFS32	DFS40
MPF	100	104	110			1	•	-
						2	-	•
						3	-	•
						4	-	•
MPFX	100	104	110			1	-	•
						2	-	•
						3	-	•
						4	-	•
MPT	101	104	110	114	120	1	•	-
						2	-	•
						3	-	•
						4	-	•
MPTX	101	104	110	114	120	1	-	•
						2	-	•
						3	-	•
						4	-	•

DIPSTICK



Materials

- Screw: phosphatized steel
- Stick: phosphatized steel
- Handle: Polyamide

Technical data

Working temperature: from -25 °C to +110 °C

Configuration example: **DPT** **20** **M10** **A** **P01**

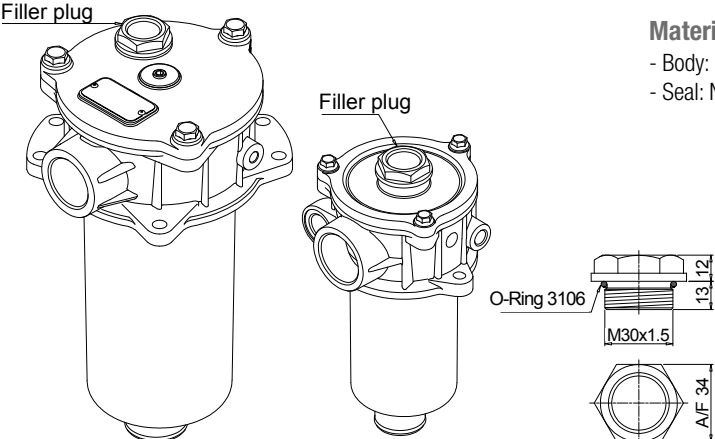
Series	Length	H [mm]	Seals	Execution
DPT	15	134	A NBR	P01 MP Filtri standard
	20	184	V FPM	Pxx Customized
	25	234		
	30	284		
	35	334		

Fastening

M8 Fastening with screws ø D = M8

M10 Fastening with screws ø D = M10

FILLER PLUG



Materials

- Body: Polyamide
- Seal: NBR

Technical data

Tightening torque: 15 N·m

For any further information, please, contact our commercial dept.