

MPF series

Maximum working pressure up to 0.8 MPa (8 bar) - Flow rate up to 900 l/min



Description

Technical data

Return filter

Maximum working pressure up to 0.8 MPa (8 bar)
Flow rate up to 900 l/min

MPF 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 filter output must be always immersed into the fluid to avoid aeration or foam generation into the reservoir.

Available features:

- Female threaded connections up to 2" and flanged connections up to 2", for a maximum flow rate of 900 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 integrated into the filter element, to relieve excessive pressure drop across the filter media
- 2, 3 or 4 fixing holes for installation, to suit a variety of reservoir surfaces
- O-ring or Flat Seal to suit a variety of reservoir surfaces
- Oil dipstick, to easily check the level of the fluid into the reservoir (sold as separate item)
- Extension tube, to be used in deep reservoirs (sold as separate item)
- Diffuser, to reduce the risk of aeration, foaming and noise (sold as separate item)
- Filler plug, to fill cleaned fluid into the tank without an additional connection
- Visual, electrical and electronic clogging indicators

Common applications:

- Light industrial equipment
- Mobile application

Filter housing materials

- Head: Aluminium
- Cover: Polyamide: MPF 030-100-104-110
Aluminium: MPF 181-182-184-191-192-194
400-410-450-451-750
- Bowl: Polyamide

Pressure

- Test pressure: 1.2 MPa (12 bar)
- Min. Burst pressure: 2.4 MPa (24 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 0.8 MPa (8 bar)

Bypass valve

- Opening pressure 0.175 MPa (1.75 bar) $\pm 10\%$
- Opening pressure 0.3 MPa (3 bar) $\pm 10\%$

Filter element features

Filter MPF	Filter element MF		
Δp Element type			
Element media	Construction	Δp Series	Δp
A - Microfiber	Standard	H	10 bar
M - Wire mesh	Standard	N	10 bar
P - Paper	Standard	N	10 bar
<i>Please see ordering code tables to check element Δp series availability based on filter features.</i>			
Flow direction through the filter element:			
From OUT to IN			

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C

Note

MPF filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]				Volumes [dm ³]					
	Length	1	2	3	4	Length	1	2	3	4
MPF 030		0.40	-	-	-		0.29	-	-	-
MPF 100		0.61	0.64	0.67	0.74		0.64	0.85	1.20	1.65
MPF 104		0.82	0.96	1.02	1.25		0.64	0.85	1.20	1.65
MPF 110		0.64	0.68	0.71	0.78		-	-	-	-
MPF 181		2.20	3.00	-	-		2.50	4.00	-	-
MPF 182		2.30	3.10	-	-		2.50	4.00	-	-
MPF 184		2.55	3.45	-	-		2.65	4.45	-	-
MPF 191		-	3.00	-	-		-	4.25	-	-
MPF 192		-	3.10	-	-		-	4.25	-	-
MPF 194		-	3.45	-	-		-	4.45	-	-
MPF 400		3.35	3.65	3.90	-		3.70	4.60	5.40	-
MPF 410		3.55	3.85	4.10	-		3.70	4.60	5.40	-
MPF 450-451		3.95	4.25	4.50	-		3.70	4.60	5.40	-
MPF 750		6.30	-	-	-		8.45	-	-	-

Flow rates [l/min]

Filter series	Length	Filter element design - H series					Filter element design - N series		
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
MPF 030	1	7	10	24	29	47	84	60	66
MPF 100-104-110	1	18	20	53	56	65	153	87	96
	2	28	38	65	75	95	158	111	123
	3	48	55	125	135	169	289	224	251
	4	79	89	180	185	198	306	264	289
MPF 181-182-184	1	127	148	235	243	278	441	285	299
	2	231	262	358	382	388	472	404	412
MPF 191-192-194	2	261	305	489	528	546	696	583	598
MPF 400	1	150	171	294	304	350	585	370	390
	2	237	252	454	462	589	868	619	645
	3	248	288	553	609	621	885	680	703
MPF 410	1	146	167	277	285	325	512	341	357
	2	226	239	396	402	485	644	503	519
	3	236	269	462	497	505	653	539	553
MPF 450-451	1	150	171	294	304	350	585	370	390
	2	237	252	454	462	589	868	619	645
	3	248	288	553	609	621	885	680	703
MPF 750	1	392	465	623	700	769	929	804	819

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

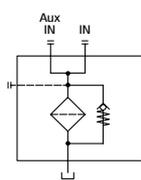
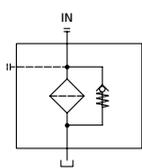
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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.

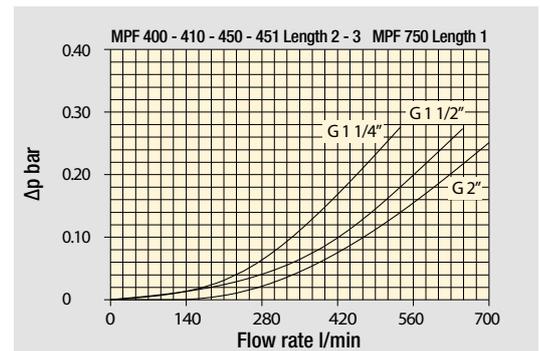
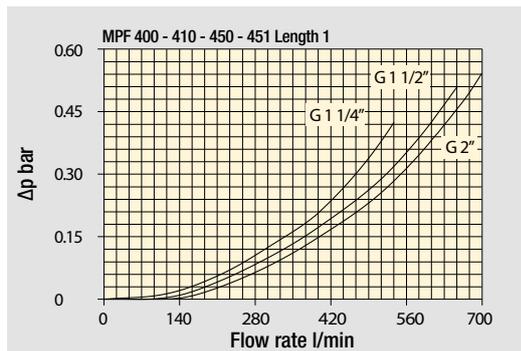
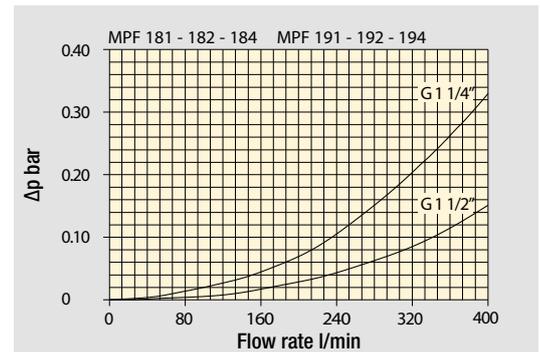
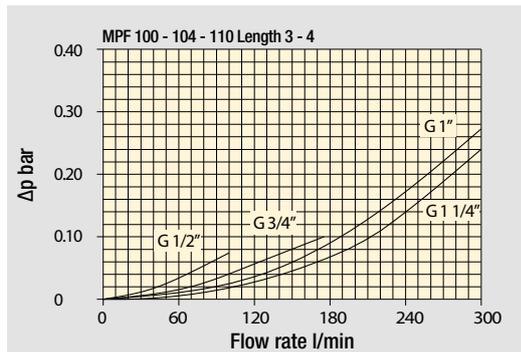
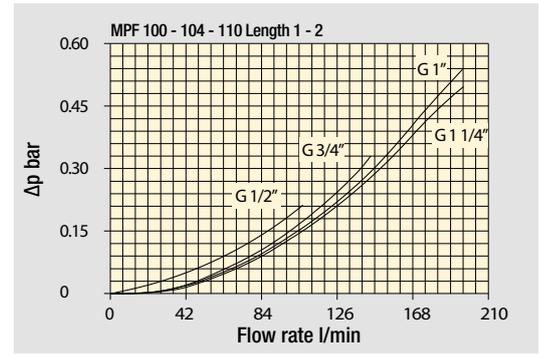
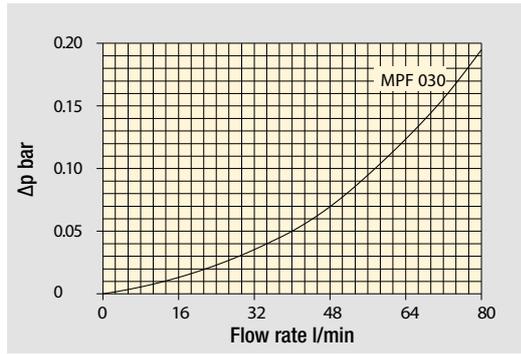
Hydraulic symbols

Filter series	Style 1 connection	Style 2 connections
MPF 030	●	-
MPF 100	●	-
MPF 104	●	-
MPF 110	-	●
MPF 181	●	-
MPF 182	-	●
MPF 184	●	●
MPF 191	●	-
MPF 192	●	-
MPF 194	●	●
MPF 400	●	-
MPF 410	-	●
MPF 450	●	-
MPF 451	-	●
MPF 750	●	-

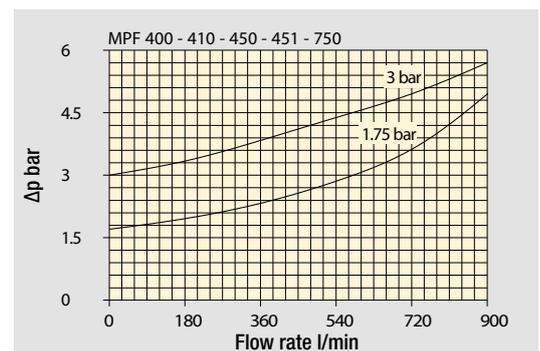
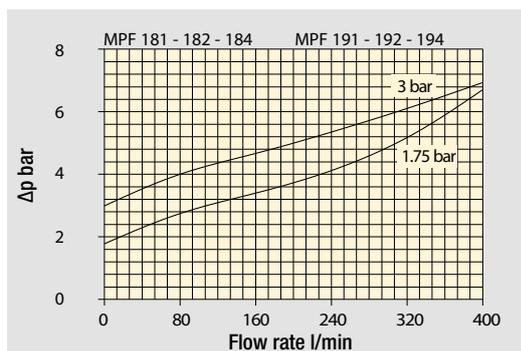
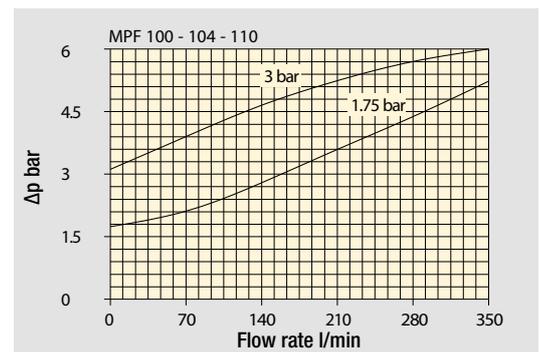
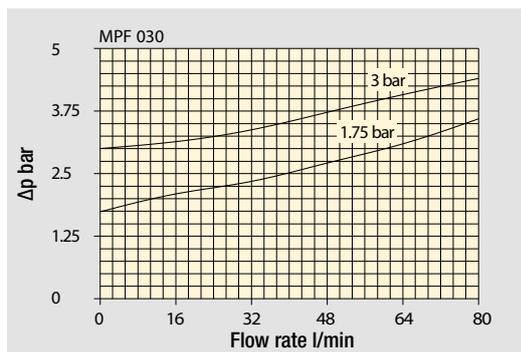


Pressure drop

Filter housings Δp pressure drop



Bypass valve pressure drop

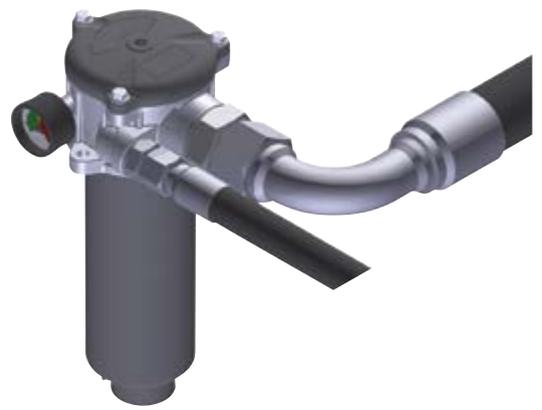


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

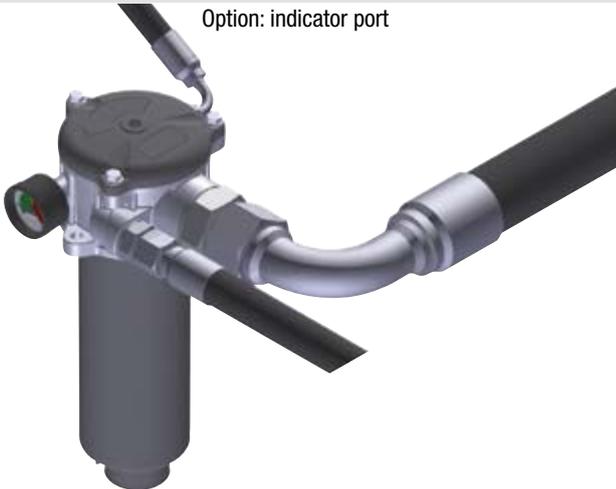
Standard - Single IN port



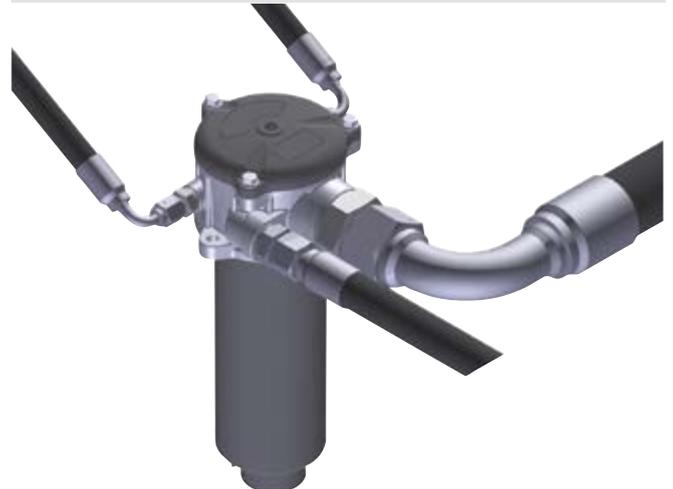
Double IN port
Option: double indicator port



Double IN port - Drain port
Option: indicator port



Double IN port - Double drain port



Designation & Ordering code

COMPLETE FILTER

Series and size MPF030 Filter element with standard spigot	Configuration example 2: MPF030 1 V G1 M25 N B P01
Length 1	
Seals and treatments A NBR V FPM W NBR head anodized Z FPM head anodized	
Connections G1 G 1/2" G4 1/2" NPT G7 SAE 8 - 3/4" - 16 UNF	
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	
Element Δp	Filter media
N 10 bar	Axx Mxx Pxx
H 10 bar	• - -
	Bypass valve E 3 bar B 1.75 bar
	Execution P01 MP Filtri standard Pxx Customized

FILTER ELEMENT

Element series and size MF030 Filter element with standard spigot	Configuration example 1: MF030 1 A10 H B E P01 Configuration example 2: MF030 1 M25 N V P01
Element length 1	
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	
Element Δp	Filter media
N 10 bar	Axx Mxx Pxx
H 10 bar	• - -
	Seals B NBR V FPM
	Bypass valve E 3 bar - 1.75 bar
	Execution P01 MP Filtri standard Pxx Customized

CLOGGING INDICATORS

See pages 712-713

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

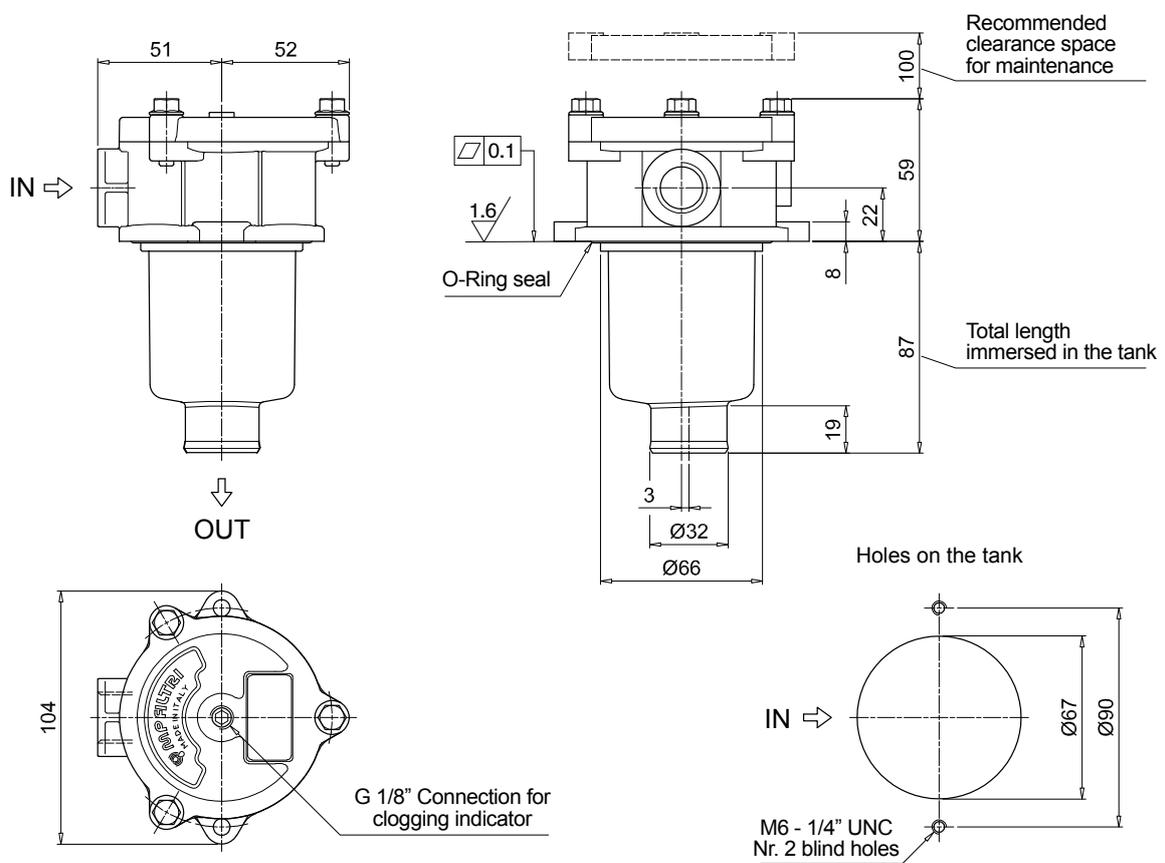
BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

ADDITIONAL FEATURES

See pages 268-269

TE Extension tube
T5 Filler plug M30x1.5

MPF030



MPF MPF100 - MPF104

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example 1: MPF100 2 W G3 A06 H B P01									
MPF100 MPF104 Filter element with standard spigot		Configuration example 2: MPF104 4 A G8 P10 N E P01									
Length											
1 2 3 4											
Seals and treatments											
A NBR											
V FPM											
W NBR head anodized											
Z FPM head anodized											
Connections		Size 100		Size 104		Connections		Size 100		Size 104	
G1 G 1/2"		•		•		G7 SAE 8 - 3/4" - 16 UNF		•		•	
G2 G 3/4"		•		•		G8 SAE 12 - 1 1/16" - 12 UN		•		•	
G3 G 1"		•		•		G9 SAE 16 - 1 5/16" - 12 UN		•		•	
G4 1/2" NPT		•		•							
G5 3/4" NPT		•		•							
G6 1" NPT		•		•							
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											
Element Δp		Filter media			Bypass valve		Execution				
N 10 bar		Axx Mxx Pxx			E 3 bar		P01 MP Filtri standard				
H 10 bar		• - -			B 1.75 bar		Pxx Customized				

FILTER ELEMENT

Element series and size		Configuration example 1: MF100 2 A06 H B P01									
MF100 Filter element with standard spigot		Configuration example 2: MF100 4 P10 N B E P01									
Element length											
1 2 3 4											
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											
Element Δp		Filter media			Seals		Bypass valve		Execution		
N 10 bar		Axx Mxx Pxx			B NBR		E 3 bar		P01 MP Filtri standard		
H 10 bar		• - -			V FPM		- 1.75 bar		Pxx Customized		

CLOGGING INDICATORS

See pages 712-713

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

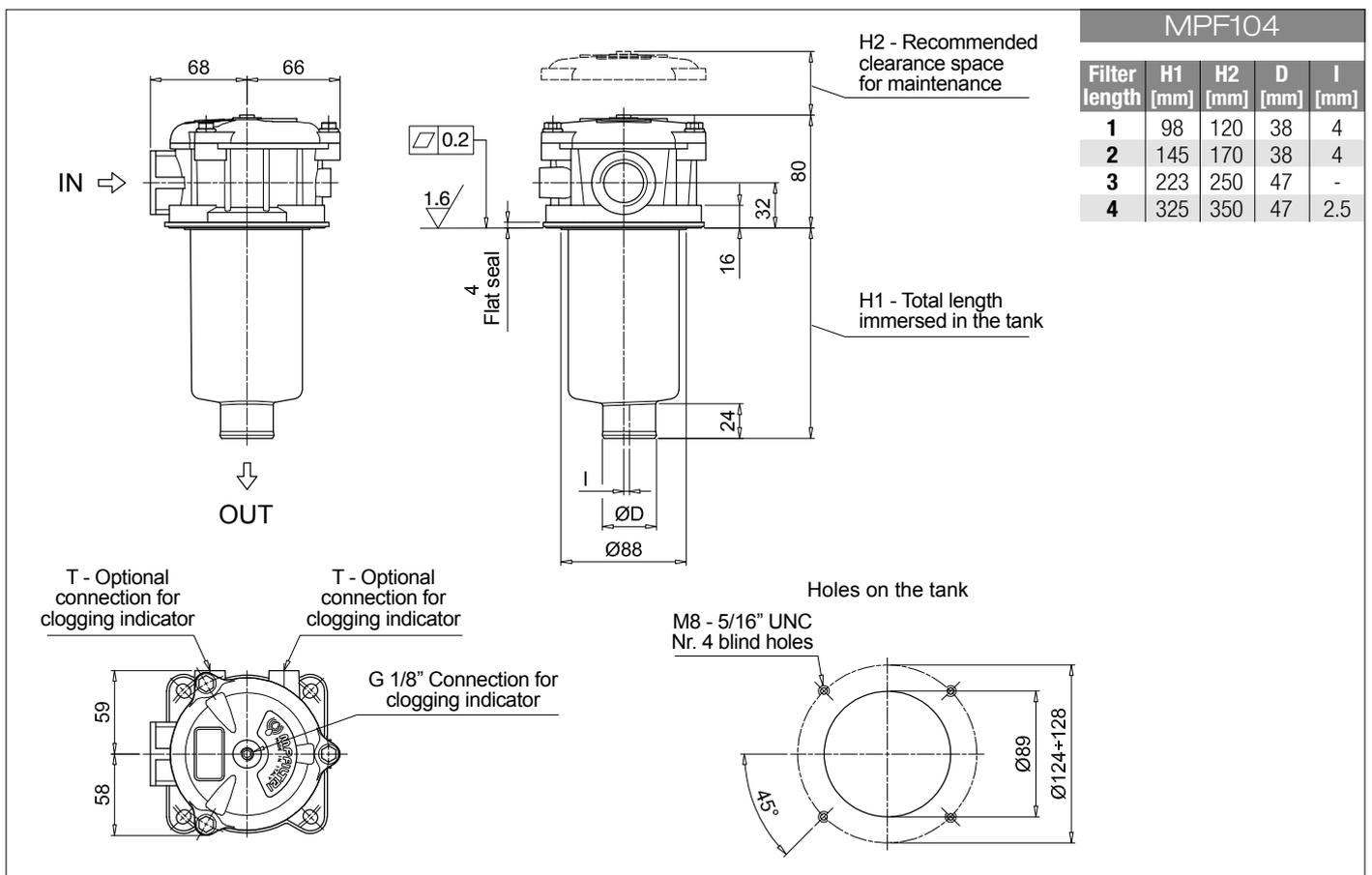
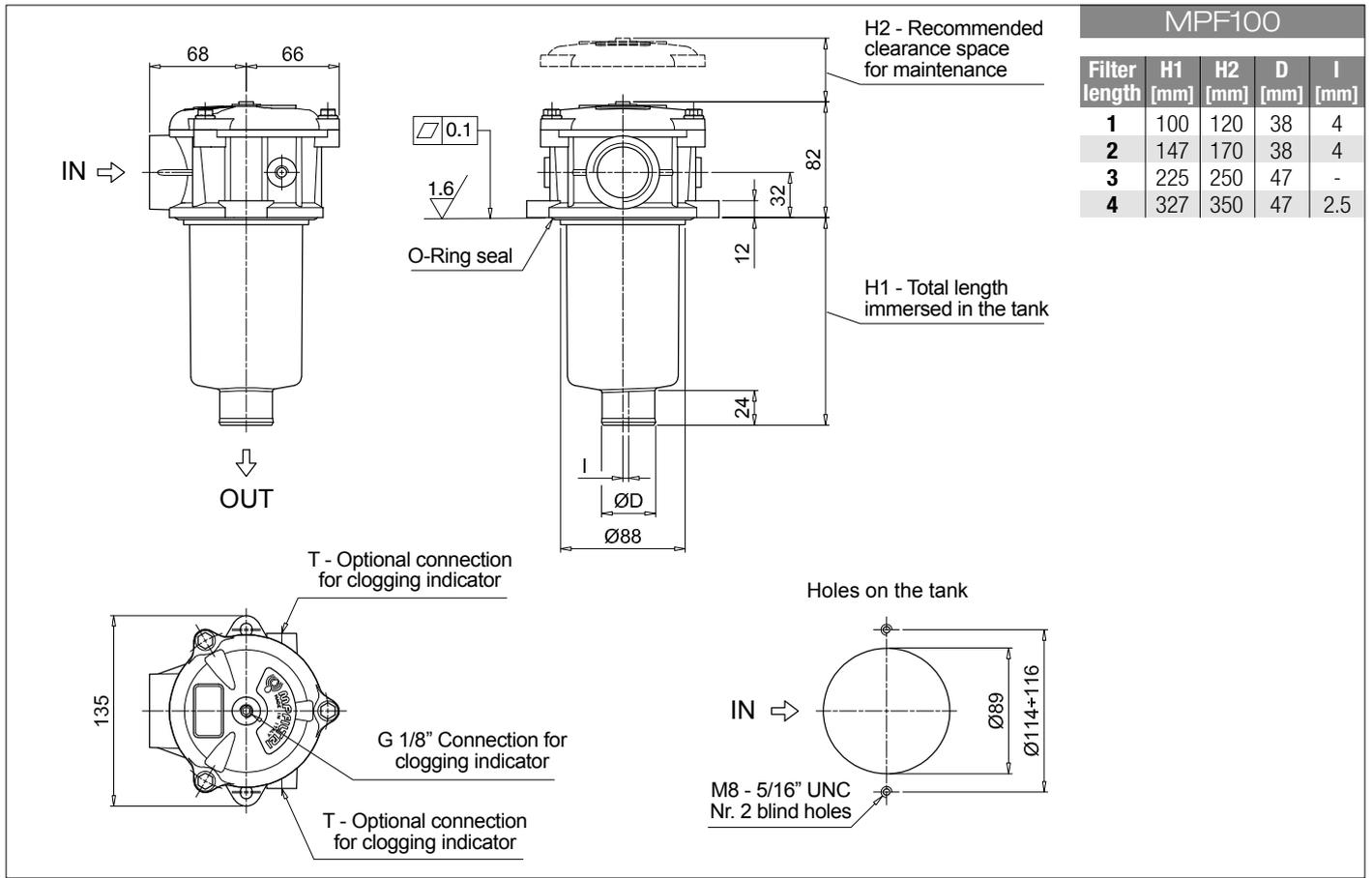
BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

ADDITIONAL FEATURES

See pages 268-269

TE Extension tube
DFS Diffuser with fast lock connection

T5 Filler plug M30x1.5
DPT Dipstick



Designation & Ordering code

COMPLETE FILTER

Series and size			Configuration example 1: MPF110 2 A G2 1 A16 H E P01								
MPF110 Filter element with standard spigot			Configuration example 2: MPF110 4 V G12 1 M60 N B P01								
Length											
1 2 3 4											
Seals and treatments											
A NBR			W NBR head anodized								
V FPM			Z FPM head anodized								
Main Connections		Aux size 1	Aux size 2	Main Connections		Aux size 1	Aux size 2				
G1 G 1/2"		G 3/8"	G 1/2"	G7 SAE 8 - 3/4" - 16 UNF		SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF				
G2 G 3/4"				G8 SAE 12 - 1 1/16" - 12 UN							
G3 G 1"				G9 SAE 16 - 1 5/16" - 12 UN							
G4 1/2" NPT				G10 G 1 1/4"		G 3/8"	G 1/2"				
G5 3/4" NPT		3/8" NPT	1/2" NPT	G11 1 1/4" NPT		3/8" NPT	1/2" NPT				
G6 1" NPT				G12 SAE 20 - 1 5/8" - 12 UN		SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF				
Aux connection - see previous table											
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								

Element Δp				Filter media			Bypass valve		Execution		
N	10 bar	Axx	-	Mxx	•	Pxx	•	E	3 bar	P01	MP Filtri standard
H	10 bar	Axx	•	Mxx	-	Pxx	-	B	1.75 bar	Pxx	Customized

FILTER ELEMENT

Element series and size			Configuration example 1: MF100 2 A16 H B E P01								
MF100 Filter element with standard spigot			Configuration example 2: MF100 4 M60 N V 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								

Element Δp				Filter media			Seals		Bypass valve		Execution		
N	10 bar	Axx	-	Mxx	•	Pxx	•	B	NBR	E	3 bar	P01	MP Filtri standard
H	10 bar	Axx	•	Mxx	-	Pxx	-	V	FPM	Pxx	1.75 bar	Pxx	Customized

CLOGGING INDICATORS

See pages 712-713

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	

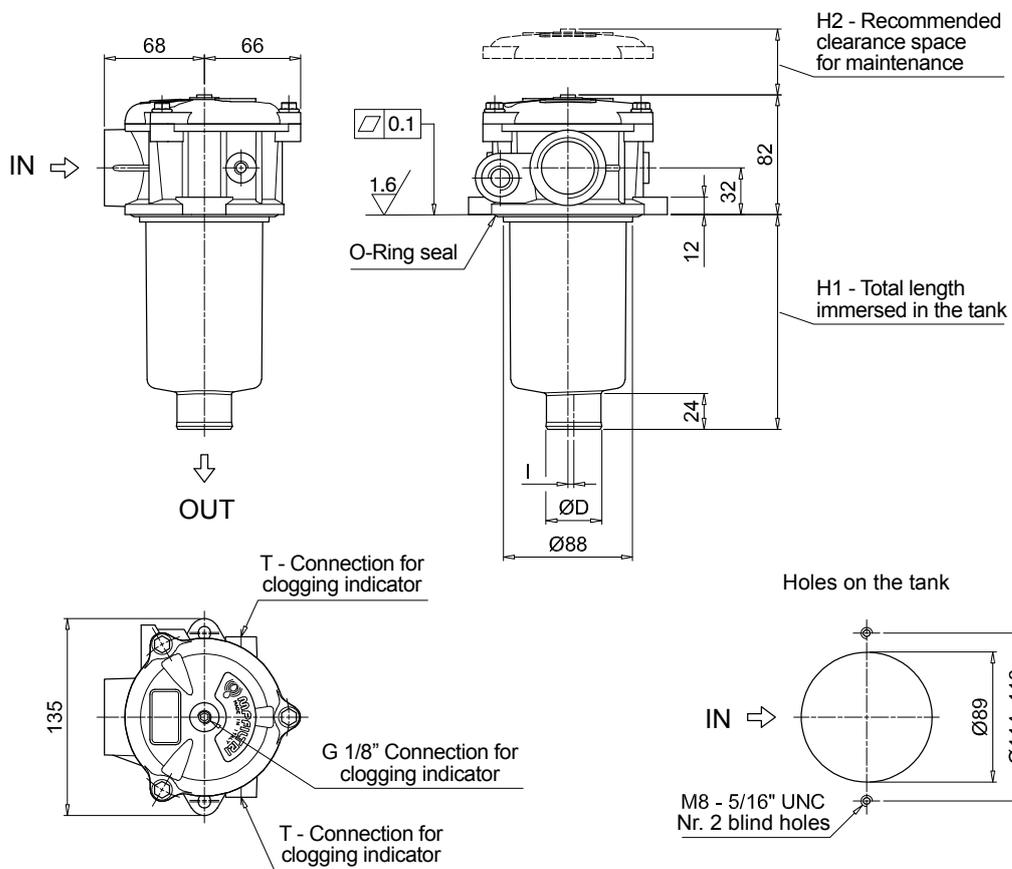
ADDITIONAL FEATURES

See pages 268-269

TE Extension tube	T5 Filler plug M30x1.5
DFS Diffuser with fast lock connection	DPT Dipstick

MPF110				
Filter length	H1 [mm]	H2 [mm]	D [mm]	I [mm]
1	100	120	38	4
2	147	170	38	4
3	225	250	47	-
4	327	350	47	2.5

Connections	T
G1-G2-G3	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT
G10	G 1/8"
G11-G12	1/8" NPT



MPF MPF181 - MPF191

Designation & Ordering code

COMPLETE FILTER

Series and size			Configuration example 1: MPF181 1 A G1 A25 H E P01								
MPF181 MPF191 Filter element with standard spigot			Configuration example 2: MPF191 2 V G2 P10 N B P01								
Length		Size 181	Size 191								
1		•	-								
2		•	•								
Seals and treatments											
A NBR	B NBR	flat seal on head									
V FPM	D FPM	flat seal on head									
W NBR head anodized	L NBR	head anodized, flat seal on head									
Z FPM head anodized	M FPM	head anodized, flat seal on head									
Connections											
G1 G 1 1/4"	G5 1 1/2" NPT										
G2 G 1 1/2"	G7 SAE 20 - 1 5/8" - 12 UN										
G4 1 1/4" NPT	G8 SAE 24 - 1 7/8" - 12 UN										
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										
Element Δp			Filter media			Bypass valve			Execution		
N 10 bar	Axx	Mxx	Pxx	E 3 bar	P01 MP Filtri standard						
H 10 bar	•	-	-	B 1.75 bar	Pxx Customized						

FILTER ELEMENT

Element series and size			Configuration example 1: MF180 1 A25 H B E P01											
MF180 MF190 Filter element with standard spigot			Configuration example 2: MF190 2 P10 N V P01											
Element length		Size 180	Size 190											
1		•	-											
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													
Element Δp			Filter media			Seals			Bypass valve			Execution		
N 10 bar	Axx	Mxx	Pxx	B NBR	E 3 bar	P01 MP Filtri standard								
H 10 bar	•	-	-	V FPM	- 1.75 bar	Pxx Customized								

CLOGGING INDICATORS

See pages 712-713

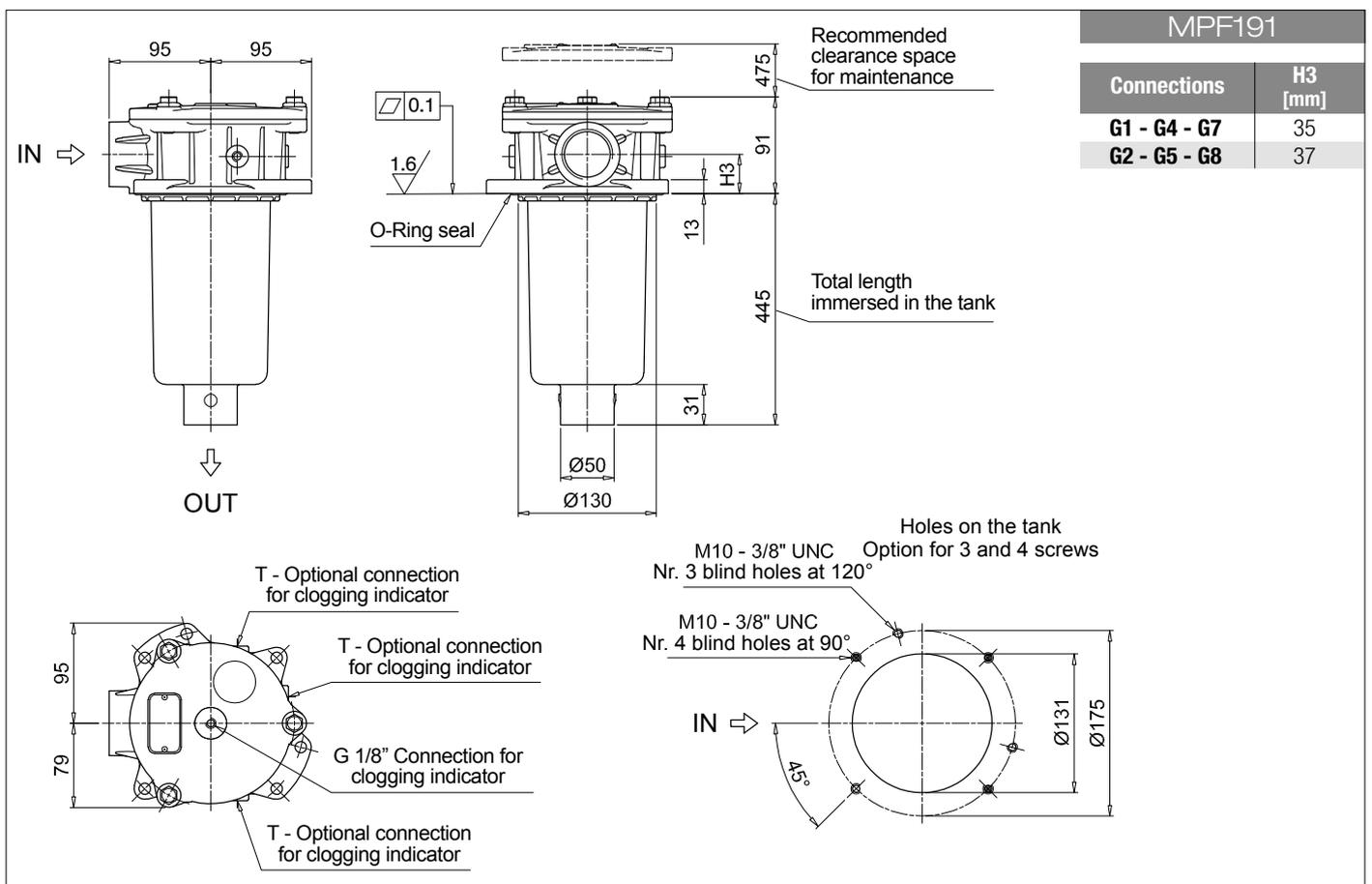
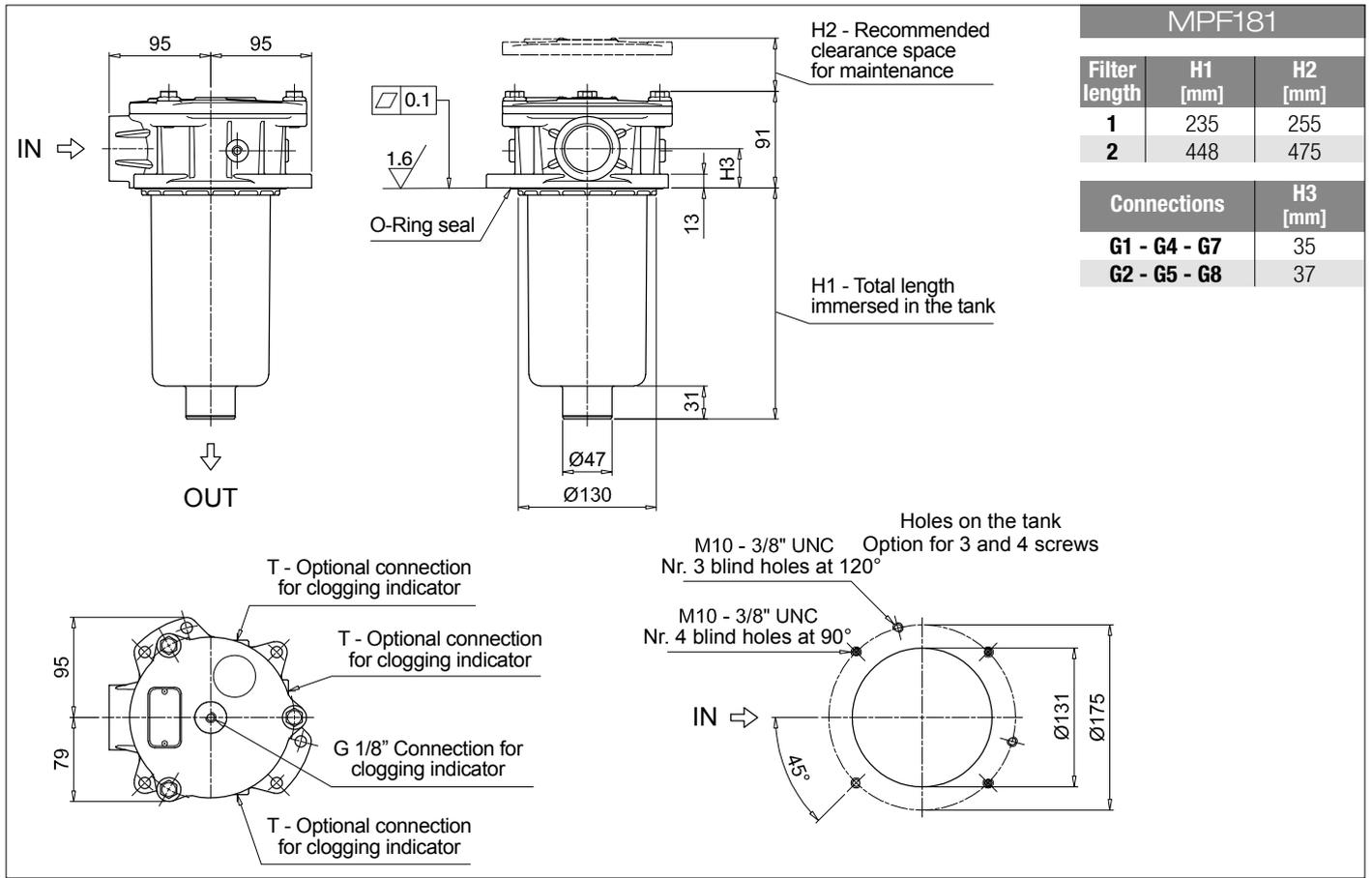
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

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

ADDITIONAL FEATURES

See pages 268-269

TE Extension tube
Sxx Extension tube
T5 Filler plug M30x1.5



MPF MPF182 - MPF192

Designation & Ordering code

COMPLETE FILTER

Series and size			Configuration example 1: MPF182 1 A G1 1 A25 H E P01								
MPF182 MPF192 Filter element with standard spigot			Configuration example 2: MPF192 2 V G4 2 P10 N B P01								
Length		Size 182	Size 192								
1		•	-								
2		•	•								
Seals and treatments											
A NBR	B NBR	flat seal on head									
V FPM	D FPM	flat seal on head									
W NBR head anodized	L NBR	head anodized, flat seal on head									
Z FPM head anodized	M FPM	head anodized, flat seal on head									
Main Connections		Aux size 1	Aux size 2								
G1 G 1 1/4"	G 1 1/4"	G 1/2"	G 3/4"								
G4 1 1/4" NPT	1 1/4" NPT	1/2" NPT	3/4" NPT								
G7 SAE 20 - 1 5/8" - 12 UN	SAE 20 - 1 5/8" - 12 UN	SAE 8 - 3/16" - 16 UNF	SAE 12 - 1 1/16" - 12 UN								
Aux connection - see previous table											
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									
Element Δp				Filter media			Bypass valve		Execution		
N 10 bar		Axx	Mxx	Pxx	E 3 bar		P01 MP Filtri standard				
H 10 bar		•	-	-	B 1.75 bar		Pxx Customized				

FILTER ELEMENT

Element series and size			Configuration example 1: MF180 1 A25 H B E P01								
MF180 MF190 Filter element with standard spigot			Configuration example 2: MF190 2 P10 N V P01								
Element length		Size 180	Size 190								
1		•	-								
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									
Element Δp				Filter media			Seals		Bypass valve		Execution
N 10 bar		Axx	Mxx	Pxx	B NBR		E 3 bar		P01 MP Filtri standard		
H 10 bar		•	-	-	V FPM		- 1.75 bar		Pxx Customized		

CLOGGING INDICATORS

See pages 712-713

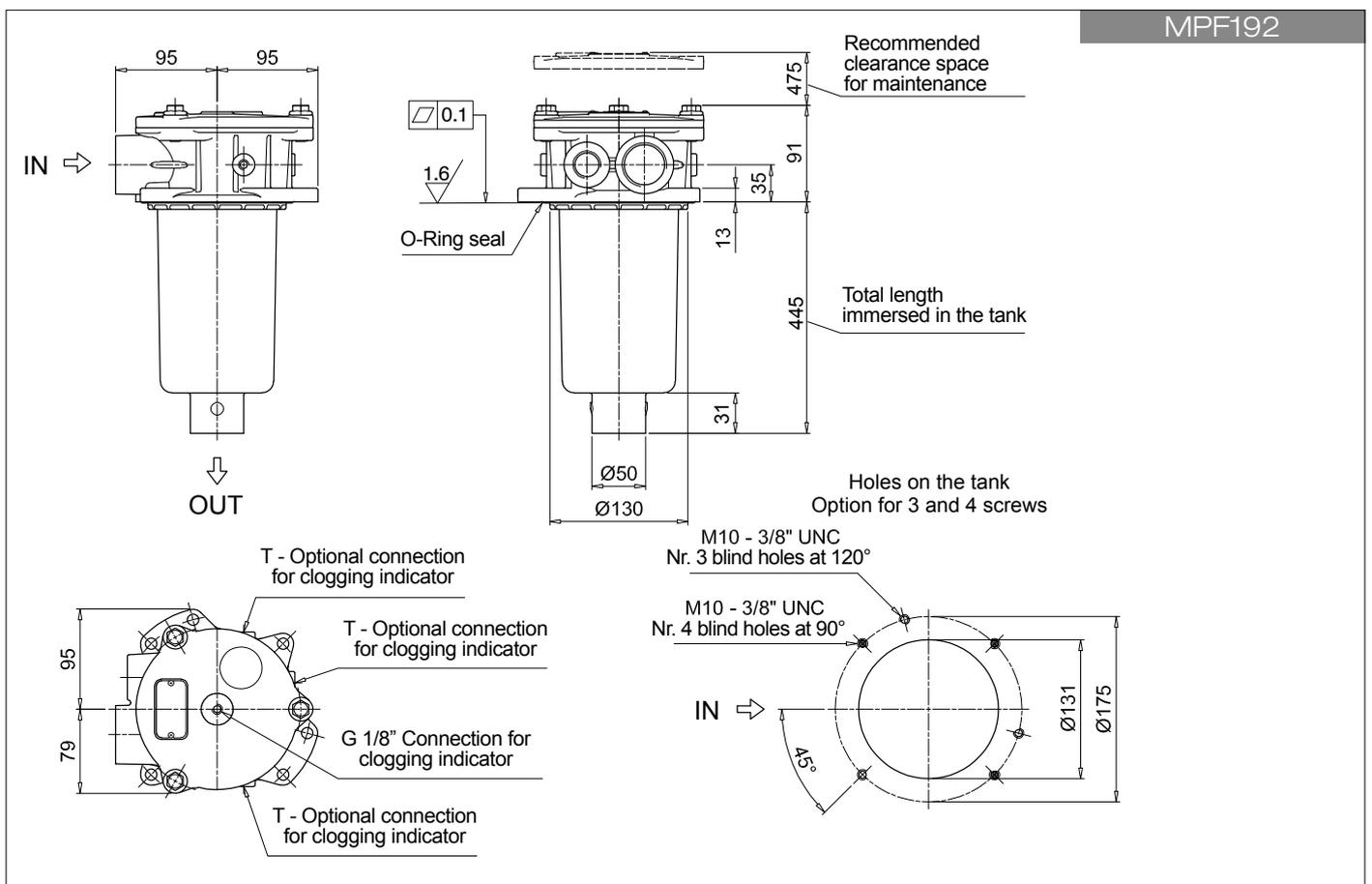
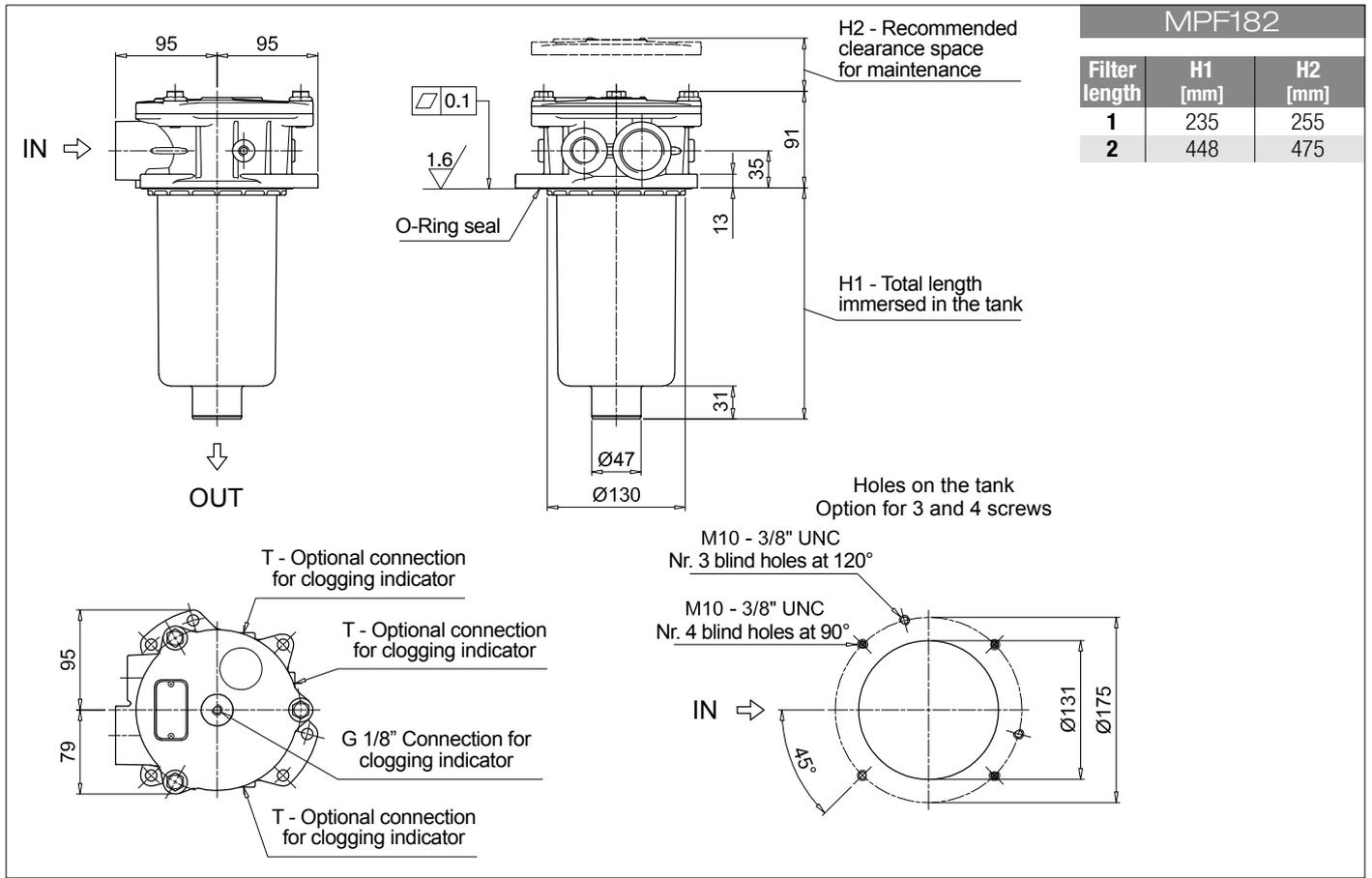
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

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

ADDITIONAL FEATURES

See pages 268-269

TE Extension tube
Sxx Extension tube
T5 Filler plug M30x1.5



MPF MPF184 - MPF194

Designation & Ordering code

COMPLETE FILTER

Series and size	Configuration example 1:	MPF184	1	A	G1	A25	H	E	P01
MPF184 MPF194 Filter element with standard spigot	Configuration example 2:	MPF194	2	V	F3	P10	N	B	P01

Length	Size 184	Size 194
1	•	-
2	•	•

Seals and treatments		
A NBR	W NBR	head anodized
V FPM	Z FPM	head anodized

Main Connections	Rear connections	Main Connections	Rear connections
G1 G 1 1/4"	-	G13 G 1 1/2"	-
G2 G 1 1/4"	G 1 1/4"	G14 G 1 1/2"	G 1 1/4"
G4 1 1/4" NPT	-	G15 1 1/2" NPT	-
G5 1 1/4" NPT	1 1/4" NPT	G16 1 1/2" NPT	1 1/4" NPT
G7 SAE 20 - 1 5/8" - 12 UN	-	F1 1 1/2" SAE 3000 psi/M	-
G8 SAE 20 - 1 5/8" - 12 UN	SAE 20 - 1 5/8" - 12 UN	F2 1 1/2" SAE 3000 psi/UNC	-
G10 SAE 24 - 1 7/8" - 12 UN	-	F3 1 1/2" SAE 3000 psi/M	1 1/2" SAE 3000 psi/M
G11 SAE 24 - 1 7/8" - 12 UN	SAE 20 - 1 5/8" - 12 UN	F4 1 1/2" SAE 3000 psi/UNC	1 1/2" 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

Element Δp	Filter media		
	Axx	Mxx	Pxx
N 10 bar	-	•	•
H 10 bar	•	-	-

Bypass valve	Execution
E 3 bar	P01 MP Filtri standard
B 1.75 bar	Pxx Customized

FILTER ELEMENT

Element series and size	Configuration example 1:	MF180	1	A25	H	B	E	P01
MF180 MF190 Filter element with standard spigot	Configuration example 2:	MF190	2	P10	N	V		P01

Element length	Size 180	Size 190
1	•	-
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

Element Δp	Filter media		
	Axx	Mxx	Pxx
N 10 bar	-	•	•
H 10 bar	•	-	-

Seals	Bypass valve	Execution
B NBR	E 3 bar	P01 MP Filtri standard
V FPM	- 1.75 bar	Pxx Customized

CLOGGING INDICATORS

See pages 712-713

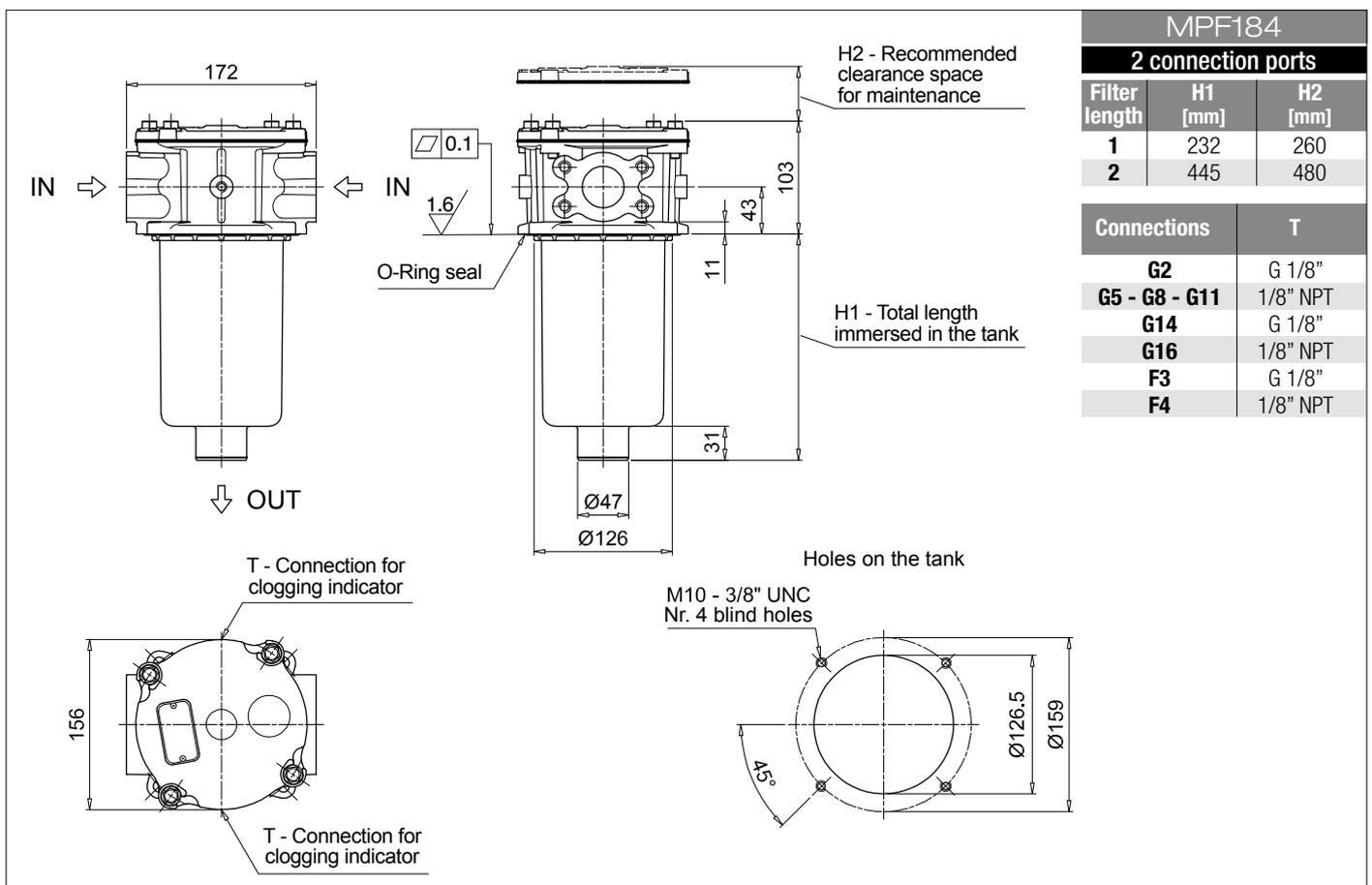
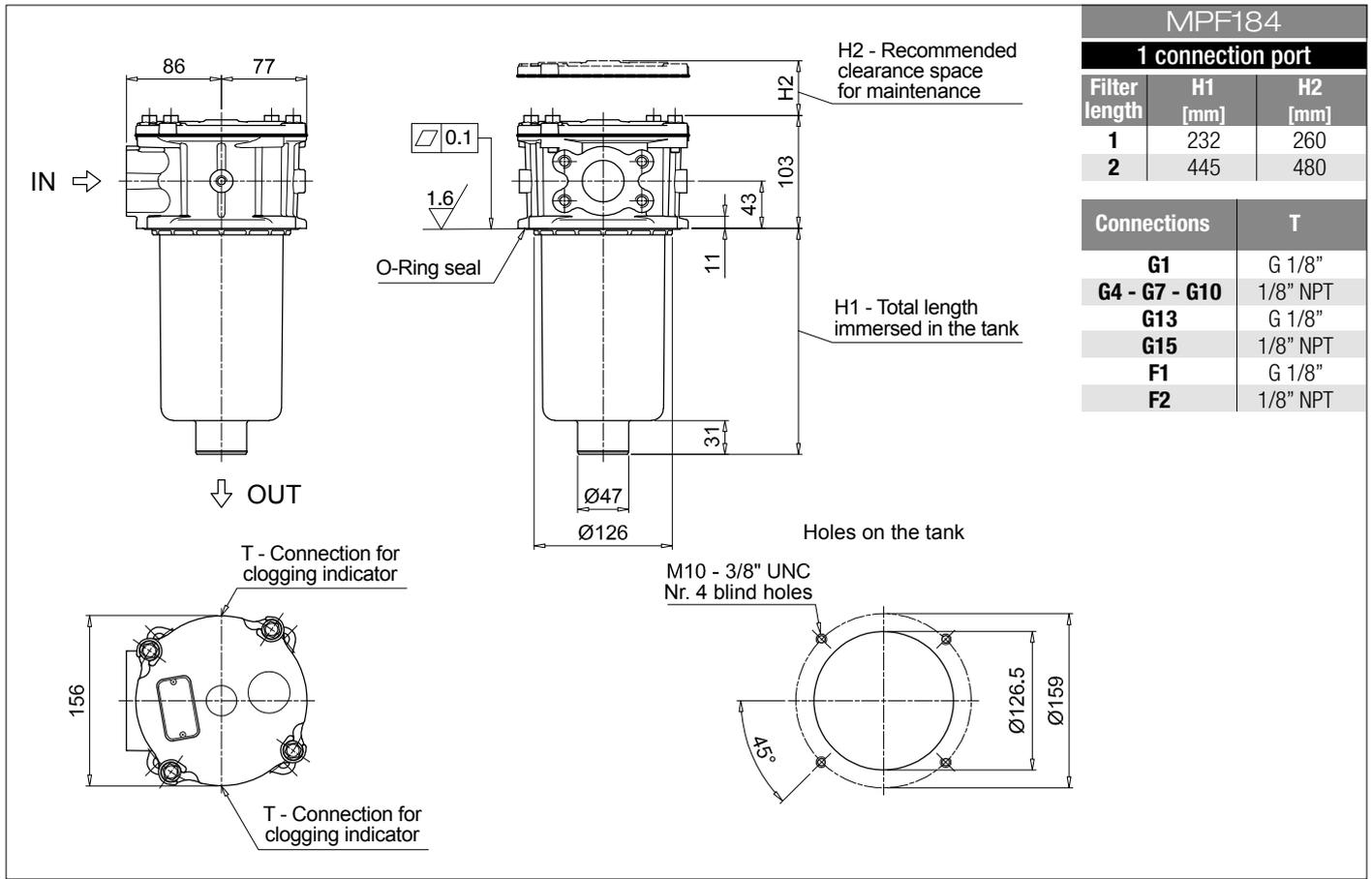
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset

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

ADDITIONAL FEATURES

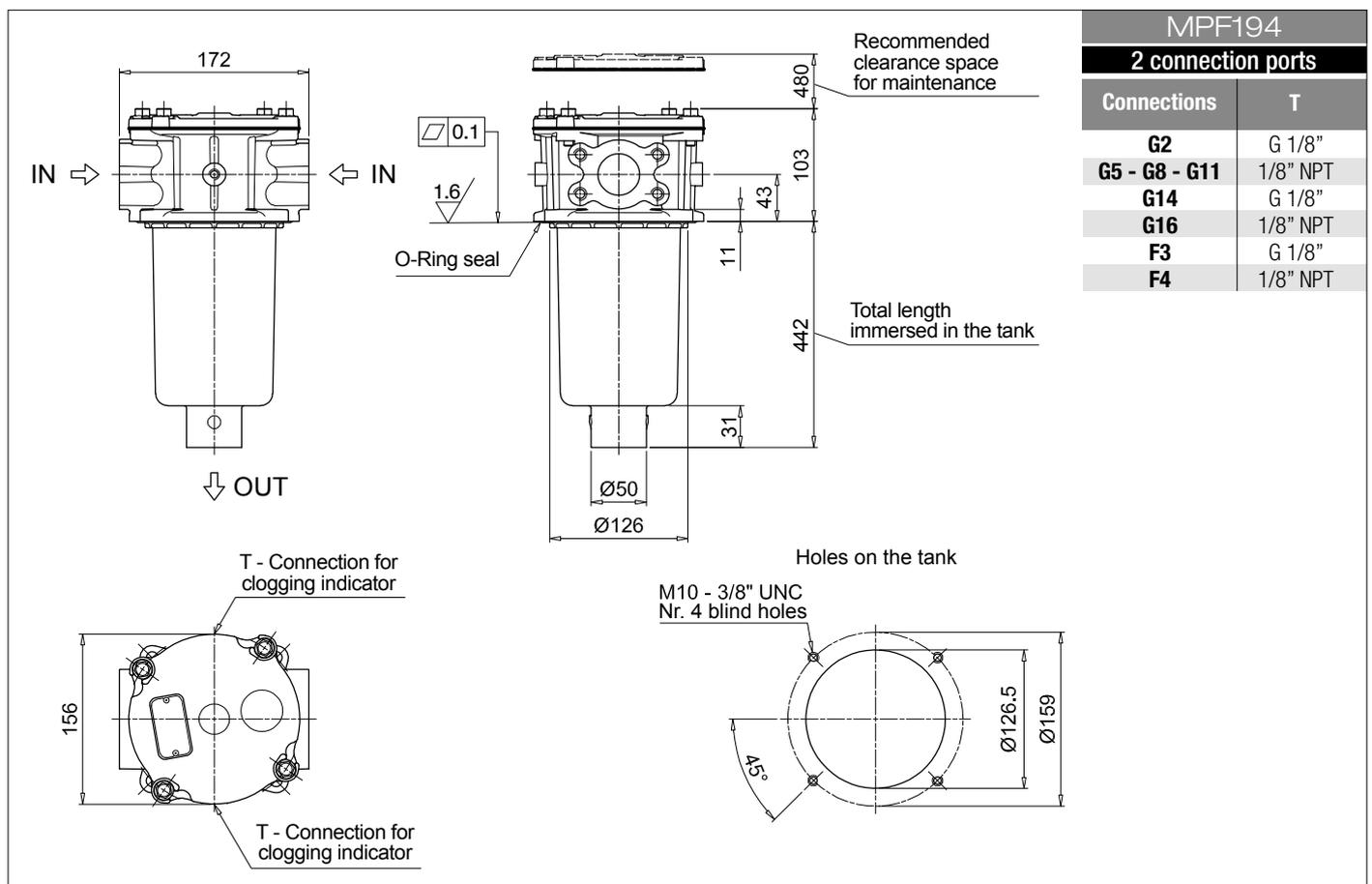
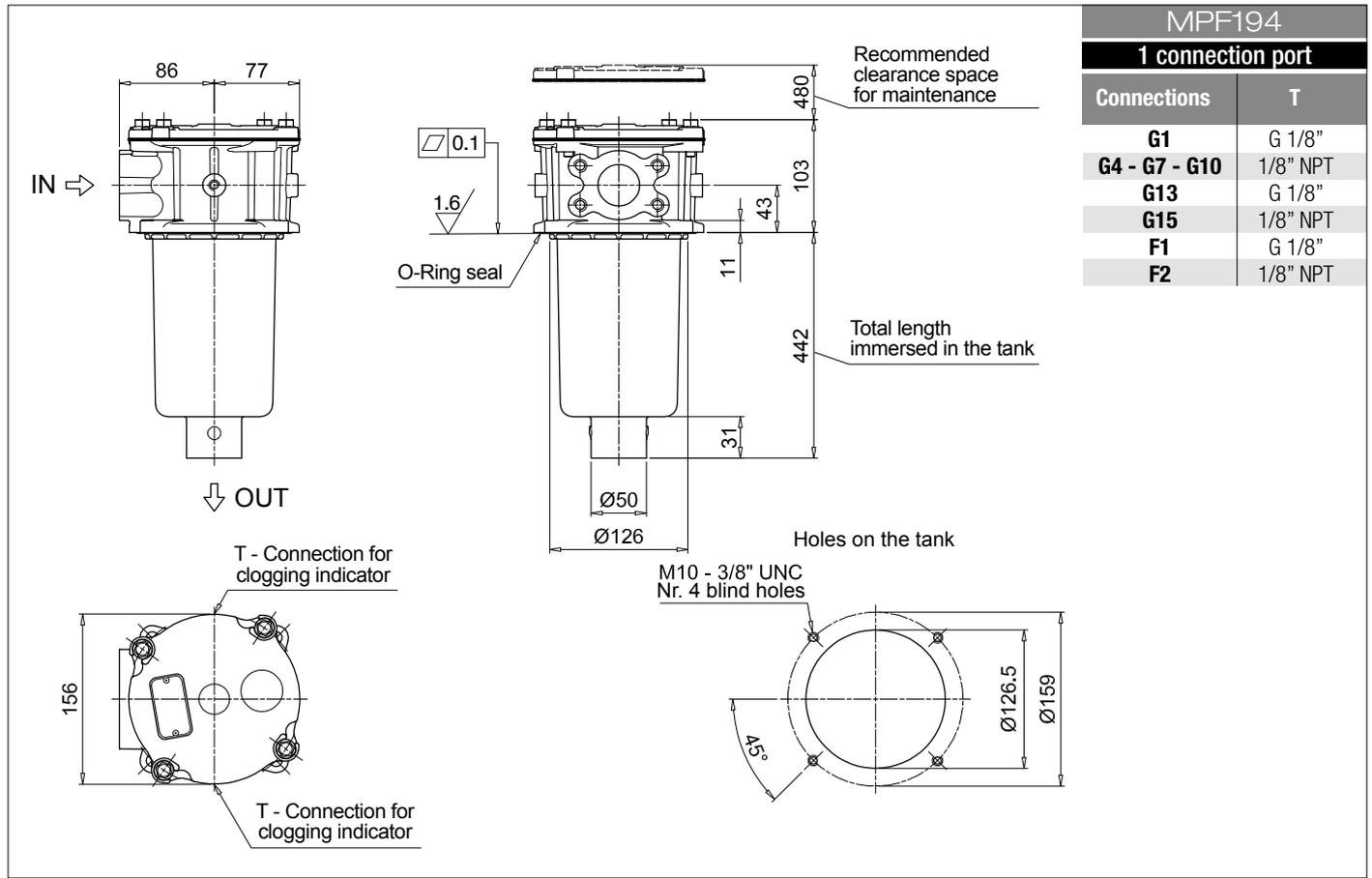
See pages 268-269

TE Extension tube
Sxx Extension tube
T5 Filter plug M30x1.5



MPF MPF184 - MPF194

Dimensions



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example 1: MPF400 1 A G9 A25 H B P01								
MPF400 Filter element with standard spigot		Configuration example 2: MPF400 2 V G4 P10 N E P01								
Length		1 2 3								
Seals and treatments										
A NBR										
V FPM										
W NBR head anodized										
Z FPM head anodized										
Connections										
G1 G 1 1/4"		G6 2" NPT								
G2 G 1 1/2"		G7 SAE 20 - 1 5/8" - 12 UN								
G3 G 2"		G8 SAE 24 - 1 7/8" - 12 UN								
G4 1 1/4" NPT		G9 SAE 32 - 2 1/2" - 12 UN								
G5 1 1/2" 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								
Element Δp		Filter media			Bypass valve		Execution			
N 10 bar		Axx	Mxx	Pxx	E 3 bar		P01 MP Filtri standard			
H 10 bar		•	-	-	B 1.75 bar		Pxx Customized			

FILTER ELEMENT

Element series and size		Configuration example 1: MF400 1 A25 H B P01								
MF400 Filter element with standard spigot		Configuration example 2: MF400 2 P10 N V E P01								
Element length		1 2 3								
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								
Element Δp		Filter media			Seals		Bypass valve		Execution	
N 10 bar		Axx	Mxx	Pxx	B NBR		E 3 bar		P01 MP Filtri standard	
H 10 bar		•	-	-	V FPM		- 1.75 bar		Pxx Customized	

CLOGGING INDICATORS

See pages 712-713

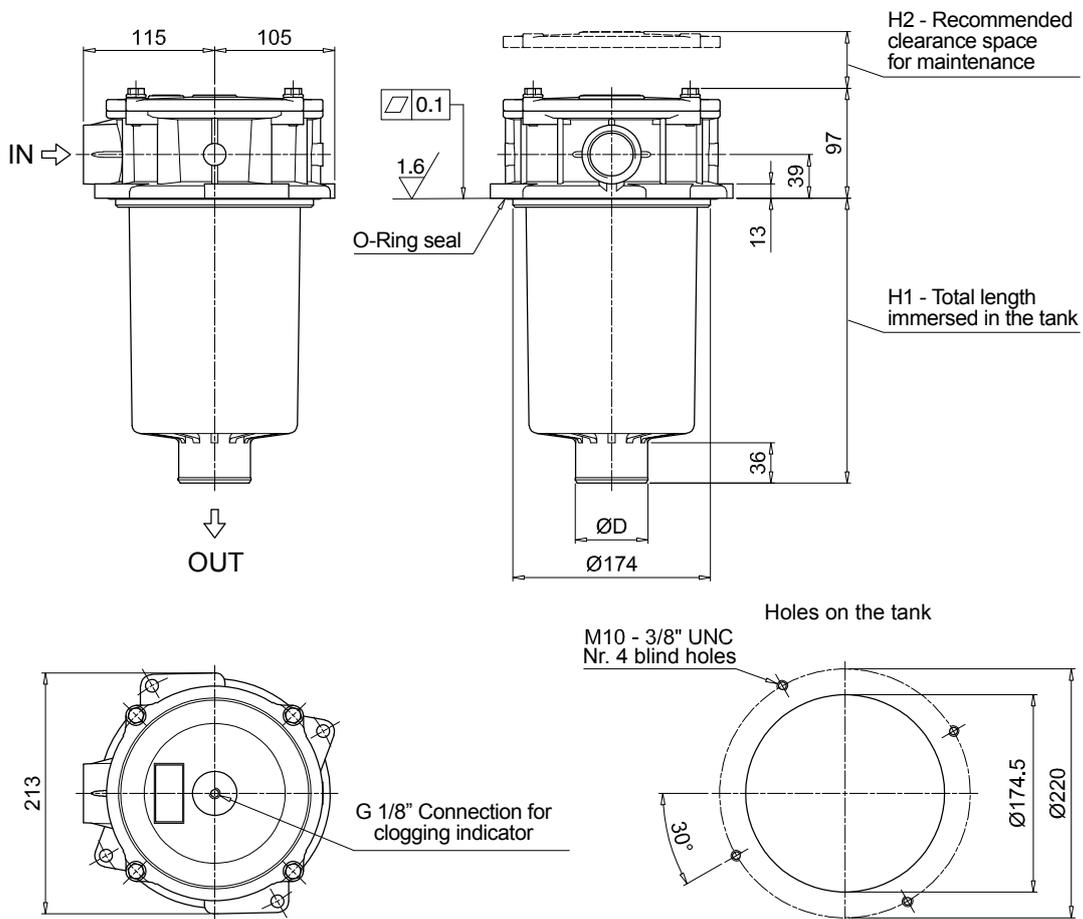
BVA Axial pressure gauge	BEA Electrical pressure indicator
BVR Radial pressure gauge	BEM Electrical pressure indicator
BVP Visual pressure indicator with automatic reset	BLA Electrical / visual pressure indicator
BVQ Visual pressure indicator with manual reset	

ADDITIONAL FEATURES

See pages 268-269

Sxx Extension tube
T5 Filler plug M30x1.5

MPF400			
Filter length	H1 [mm]	H2 [mm]	D [mm]
1	180	210	51
2	240	270	64
3	290	315	64



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example 1: MPF410 1 A G1 1 A25 H B P01								
MPF410 Filter element with standard spigot		Configuration example 2: MPF410 1 V G4 1 P10 N E P01								
Length		1 2 3								
Seals and treatments										
A NBR										
V FPM										
W NBR head anodized										
Z FPM head anodized										
Main Connections		Aux size 1								
G1 G 1 1/4"		G 1"								
G4 1 1/4" NPT		1" NPT								
G7 SAE 20 - 1 5/8" - 12 UN		SAE 16 - 1 5/16" - 12 UN								
Aux connection - see previous table										
1 Aux size 1										
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								
Element Δp		Filter media			Bypass valve		Execution			
N 10 bar		Axx Mxx Pxx			E 3 bar		P01 MP Filtri standard			
H 10 bar		• - -			B 1.75 bar		Pxx Customized			

FILTER ELEMENT

Element series and size		Configuration example 1: MF400 1 A25 H B P01									
MF400 Filter element with standard spigot		Configuration example 2: MF400 1 P10 N V E P01									
Element length		1 2 3									
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									
Element Δp		Filter media			Seals		Bypass valve		Execution		
N 10 bar		Axx Mxx Pxx			B NBR		E 3 bar		P01 MP Filtri standard		
H 10 bar		• - -			V FPM		- 1.75 bar		Pxx Customized		

CLOGGING INDICATORS

See pages 712-713

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

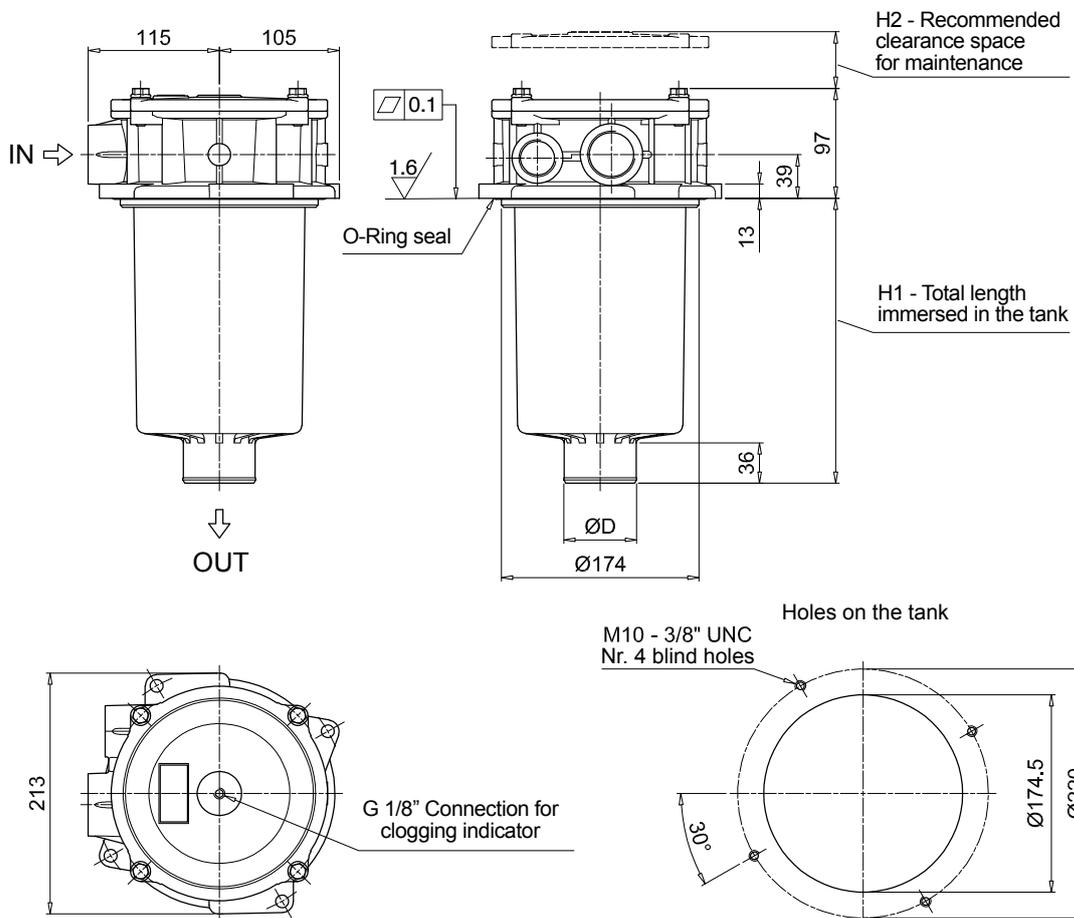
BEA Electrical pressure indicator
BEM Electrical pressure indicator
BLA Electrical / visual pressure indicator

ADDITIONAL FEATURES

See pages 268-269

Sxx Extension tube
T5 Filler plug M30x1.5

MPF410			
Filter length	H1 [mm]	H2 [mm]	D [mm]
1	180	210	51
2	240	270	64
3	290	315	64



MPF MPF450 - MPF451 - MPF750

Designation & Ordering code

COMPLETE FILTER

Series and size			Configuration example 1: MPF450 1 A G1 A25 H B P01								
MPF450 MPF451 MPF750	Filter element with standard spigot		Configuration example 2: MPF750 1 V F2 P10 N E P01								
Length			MPF 450	MPF 451	MPF 750						
1			•	•	•						
2			•	•	-						
3			•	•	-						
Seals and treatments											
A NBR	W NBR	head anodized									
V FPM	Z FPM	head anodized									
Connections			Aux (only size 451)								
G1 G 2"			G 3/4"								
G4 2" NPT			3/4" NPT								
G7 SAE 32 - 2 1/2" - 12 UN			SAE 12 - 1 1/16" - 12 UN								
F1 2" SAE 3000 psi/M			G 3/4"								
F2 2" SAE 3000 psi/UNC			3/4" 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								
Element Δp			Filter media			Bypass valve			Execution		
N 10 bar			Axx	Mxx	Pxx	E 3 bar			P01 MP Filtri standard		
H 10 bar			•	-	-	B 1.75 bar			Pxx Customized		

FILTER ELEMENT

Element series and size			Configuration example 1: MF400 1 A25 H B P01								
MF400 IMF750	Filter element with standard spigot		Configuration example 2: MF750 1 P10 N V E P01								
Element length			MPF 450	MPF 451	MPF 750						
1			•	•	•						
2			•	•	-						
3			•	•	-						
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								
Element Δp			Filter media			Seals		Bypass valve		Execution	
N 10 bar			Axx	Mxx	Pxx	B NBR	E 3 bar	P01 MP Filtri standard			
H 10 bar			•	-	-	V FPM	- 1.75 bar	Pxx Customized			

CLOGGING INDICATORS

See pages 712-713

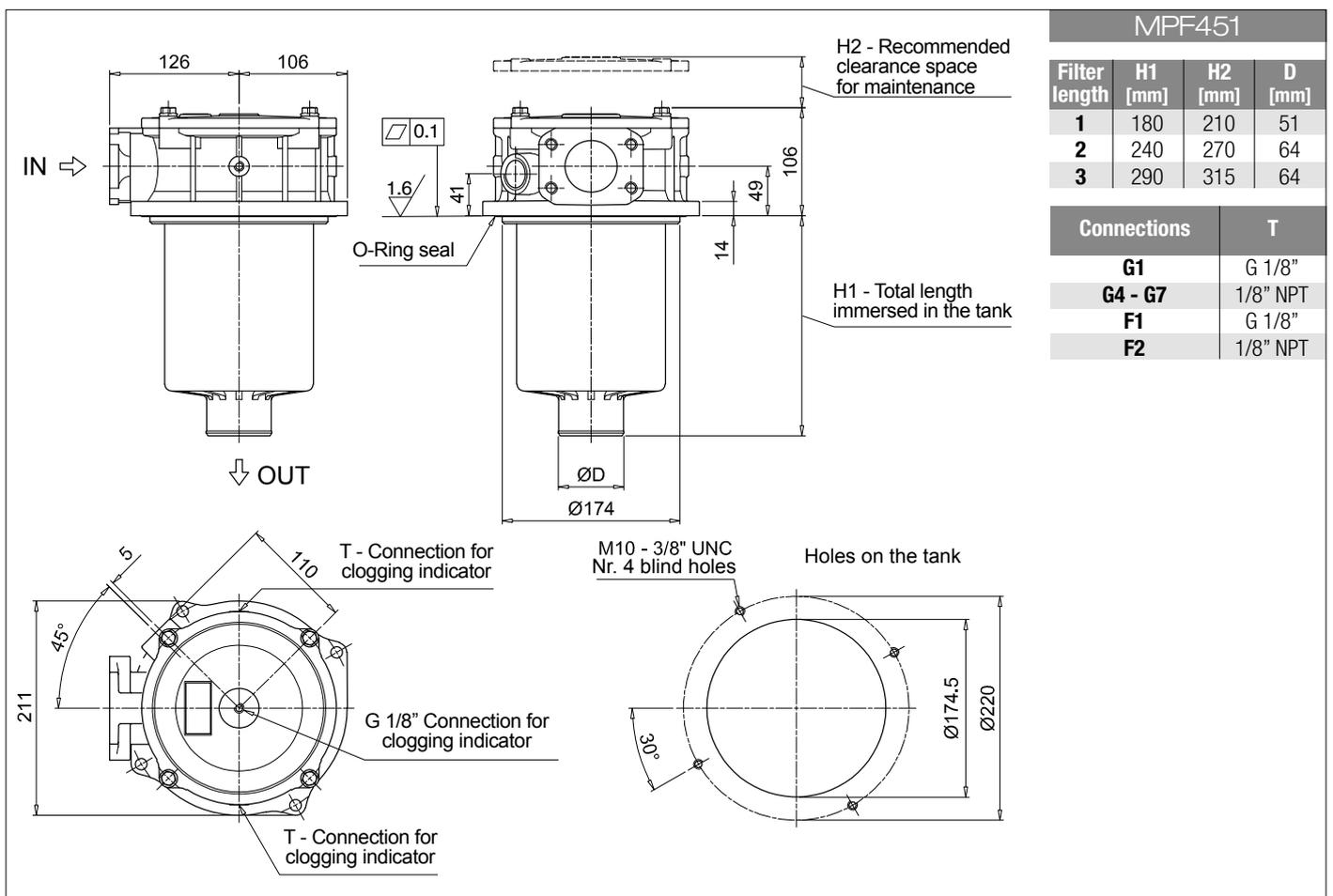
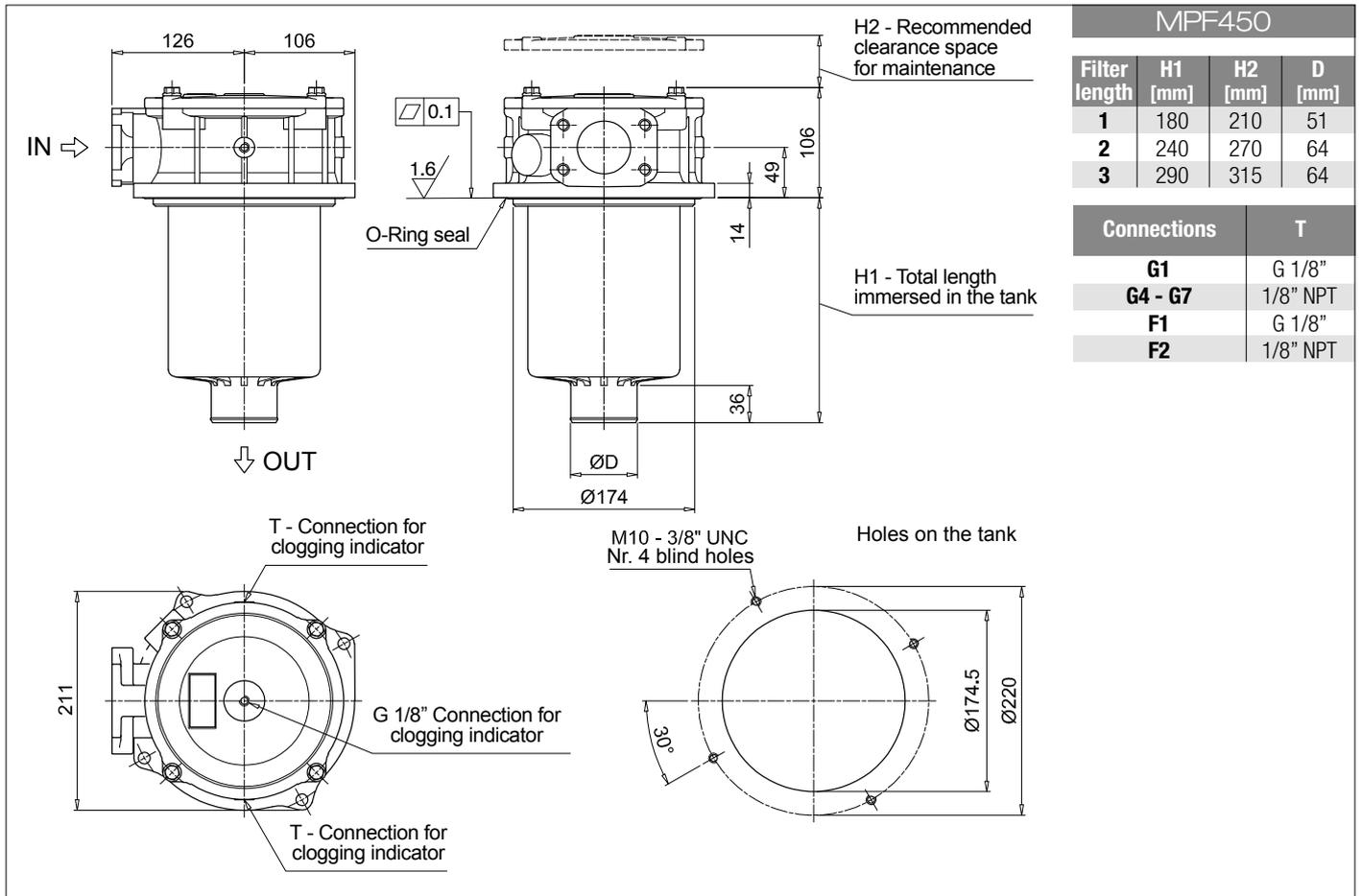
BVA Axial pressure gauge	
BVR Radial pressure gauge	
BVP Visual pressure indicator with automatic reset	
BVQ Visual pressure indicator with manual reset	

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

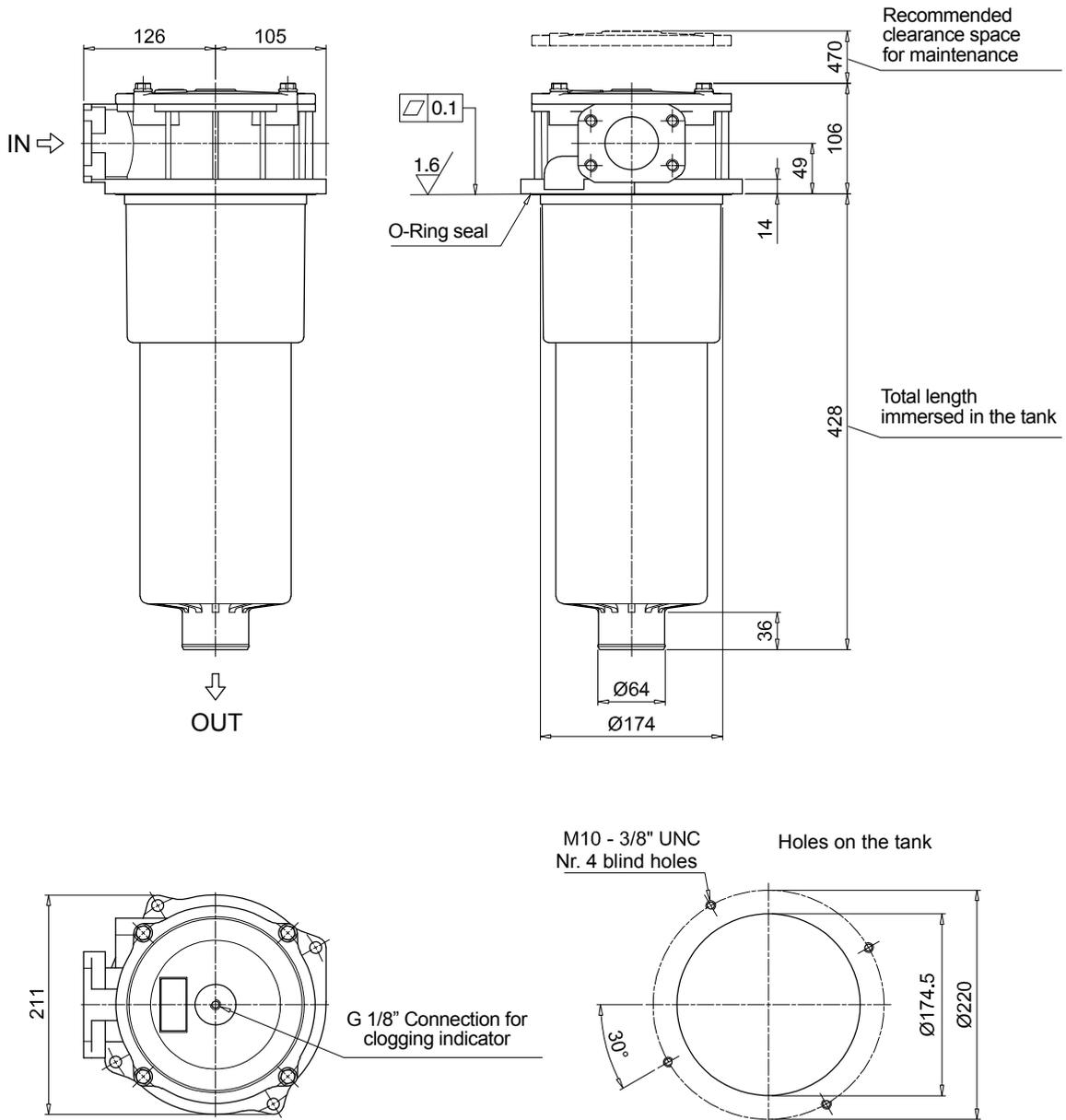
ADDITIONAL FEATURES

See pages 268-269

Sxx Extension tube	
T5 Filler plug M30x1.5	



MPF750



MPF 100

MPF 181

O-RING SEAL

	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Item:			
Filter series	Filter element	Seal Kit code number NBR	FPM
MPF 030	See order table	02050055	02050056
MPF 100-110		02050057	02050058
MPF 181-182		02050059	02050060
MPF 184		02050455	02050456
MPF 191-192		02050457	02050458
MPF 194		02050459	02050460
MPF 400-410		02050061	02050062
MPF 450-451		02050461	02050462
MPF 750		02050106	02050107

MPF 104

MPF 181

FLAT SEAL

	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Item:			
Filter series	Filter element	Seal Kit code number NBR	FPM
MPF 020	See order table	02050438	02050439
MPF 104		02050350	02050408
MPF 181-182		02050659	02050660
MPF 191-192		02050661	02050662