MPH SERIES

RETURN FILTER

MP FILTRI
filtri per oleodinamica

Maximum working pressure 145 PSI

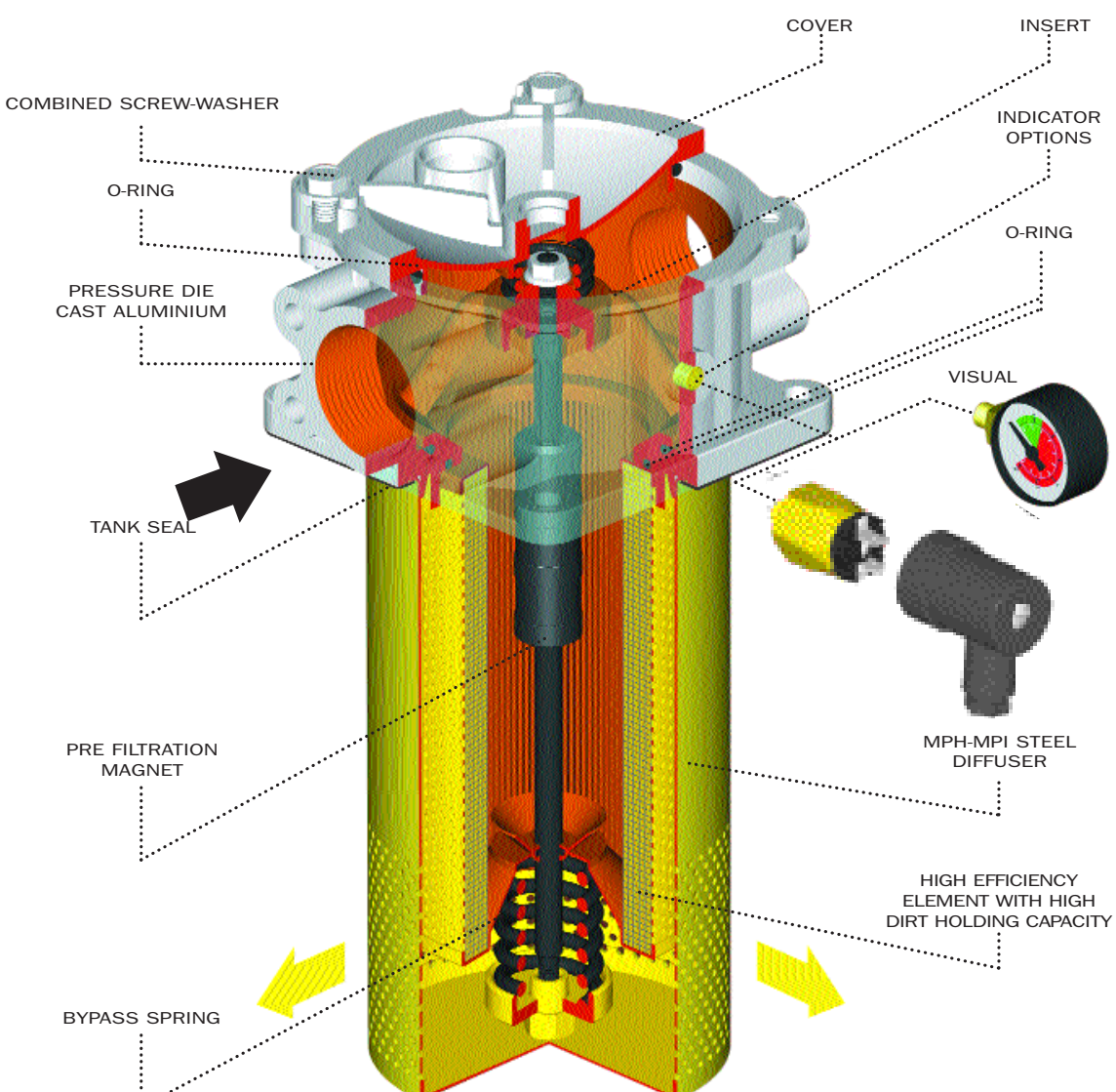
Flow rate from 3 gpm to 550 gpm

Description

MPH

MPH and **MPI** series filters are designed for return-line applications and provide various installation applications. The filters are installed semi-immersed or totally immersed into a reservoir. The filtration flow is from inside to outside of the filter element which ensures that all the contaminant is collected inside the element itself avoiding contact with the reservoir oil during element change. The combination of magnetic pre-filtration and high filtration efficiency results in a cost effective and versatile filtration series.

The high flow rapid response bypass valves are a standard feature with this range of filters.
The **MPH 100** series are available with an option of an air filter.
The **MPH-MPI 250, 630, 850** series can be specified with dual inlet ports.
MPH-MPI filters within this range are suitable for flow rates up to 550 gpm.
MPH-MPI series are specifically designed for heavy duty mobile machinery and process plant applications.



New

absolute filter elements independently tested in the following Institutes:

Institute of Filtration (France) L.F.T.S.

Kungl Tekniska Högskolan – Royal Institute of Technology

UNI EN ISO 9001 N° 037/98 ITALCERT

Filter element:

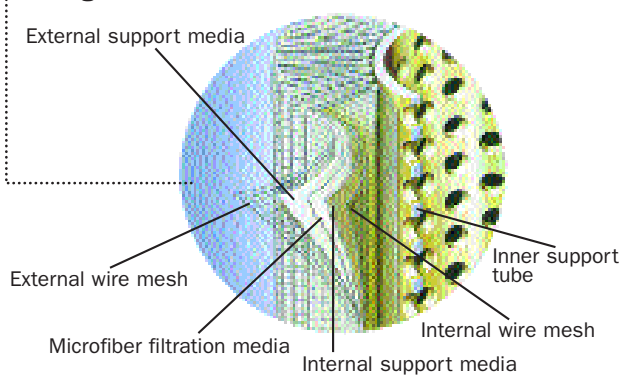
Materials

End caps:
Nylon

Support tube:
Galvanized steel

Support frames:
Galvanized steel with an epoxy coating

A Series
Inorganic microfiber



MP Filter elements - Conform to the following ISO standards

ISO 2941 - Verification of collapse/burst resistance.
ISO 2942 - Verification of fabrication integrity and determination of the first bubble point.
ISO 2943 - Verification of material compatibility with fluids.
ISO 3723 - Method for end load test.
ISO 3724 - Verification of flow fatigue characteristics.
ISO 3968 - Evaluation of pressure drop versus flow characteristics.
ISO 4572 - Multi-pass method for evaluating filtration performance.

Element material Absolute filtration

A Series

Inorganic microfiber with acrylic support

Contamination retention
as per ISO 4572: Multi-pass test.

New improved ß ≥ 200 filter elements with greater efficiency and increased dirt holding capacity

Filter elements	Dimensions for ß(µm) values				Filtration ratios			Δ P (psi)
	ß ≥ 2 (50%)	ß ≥ 20 (95%)	ß ≥ 75 (98,7%)	ß ≥ 200 (99,5%)	$ß_2$	$ß_{10}$	$ß_{20}$	
A06	–	3	4,6	6	8	> 2.000	>10.000	100
A10	3	6	7,8	10	1,5	≥ 200	>10.000	100
A25	13	19	22	25	–	> 1,5	> 35	100

N.B. Other materials giving different degrees of filtration are available on request.

Filtering area Filter elements

Type MR	100-1	100-2	100-3	100-4	250-1	250-2	250-3	250-4
A06	130.2	194.5	265	406.1	434	604.5	844.8	1550
A10/A25	130.2	194.5	265	406.1	434	604.5	844.8	1550

Values in sq. in

Type MR	630-1	630-2	630-3	630-4	850-1	850-2	850-3	850-4
A06	860.3	1210.6	1650.8	2031	2852	4774	7208	9564
A10/A25	860.3	1210.6	1650.8	2031	2852	4774	7208	9564

Values in sq. in

Element material Nominal filtration

P Series

Resin - impregnated paper

M Series

Square wire mesh (filtration degree is defined in microns by the maximum diameter of a sphere corresponding to the mesh size)

Filtering area Filter elements

Type MR	100-1	100-2	100-3	100-4	250-1	250-2	250-3	250-4
P10/P25	202	279	409.2	589	543	744	1023	1845
M25	96.1	127.1	194.5	284	176	244.1	340	620
M60	96.1	127.1	194.5	284	176	244.1	340	620
M90	96.1	127.1	194.5	284	176	244.1	340	620

Values in sq. in

Type MR	630-1	630-2	630-3	630-4	850-1	850-2	850-3	850-4
P10/P25	1039	1457	1953	2403	3440	5775	8683.1	11550.6
M25	345.4	484.2	657.8	810.6	1028	1721	2527	3444.3
M60	345.4	484.2	657.8	810.6	1028	1721	2527	3444.3
M90	345.4	484.2	657.8	810.6	1028	1721	2527	3444.3

Values in sq. in

Filter body:

Materials

Head
Pressure die cast aluminium

Cover

MPH 100	Nylon
MPH 250-630	Aluminium
MPH 850	Steel

Diffuser
Steel

Seals
A Series: Nitrile (Buna-N)
V Series: Viton

Bypass valve
Steel

Indicator
Brass

Working temperature

From -13°F to 230°F
For temperatures outside this range, please consult our Sales and Network Organization

Pressure filter body

Maximum working pressure up to 145 psi
Test pressure: 217.5 psi
Minimum burst pressure: 435 psi

Fatigue test: a filter body subjected to pressure impulses from 0 to 145 psi will withstand 1.000.000 cycles

Collapse pressure filter elements

145 psi

Bypass valve Calibration pressure

Bypass valve, differential opening pressure:

B: 2 psi ± 10%
C: 25 psi ± 10%

Compatibility with fluids

Filter head and bowls
compatible for use with:
- mineral oils
  (types HH-HL-HM-HR-HV-HG as per ISO 6743/4)
- water-based emulsions
  (types HFAE-HFAS as per ISO 6743/4)
- synthetic fluids
  (types HS-HFDR-HFDS-HFDU as per ISO 6743/4)
- water-glycol
  (types HFC as per ISO 6743/4)

Ask for anodised version

Filter elements
As per ISO 2943; suitable for mineral oils
(types HH-HL-HM-HR-HV-HG as per ISO 6743/4)
synthetic fluids (A and M series only)
(types HS-HFDR-HFDS-HFDU as per ISO 6743/4)

For water-based emulsions (types HFAE-HFAS as per ISO 6743/4) and fluids other than those mentioned, please consult our Sales and Network Organization.

Seals
A Series
Nitrile (Buna-N) compatible with mineral oils
(types HH-HL-HM-HR-HV-HG as per ISO 6743/4)
water - based emulsions
(types HFAE-HFAS as per ISO 6743/4)
water - glycol
(types HFC as per ISO 6743/4)

V Series
Viton compatible with synthetic fluids
(types HS-HFDR-HFDS-HFDU as per ISO 6743/4)

Types of indicators

Description:
MPH series filters are fitted with indicators switching

at a pressure of 15 psi ± 10%
(with bypass 25 psi setting)
at a pressure of 8.7 psi ± 10%
(with bypass 12 psi setting)

Visual indicator

VT Series with bypass 12 psi setting
VR Series with bypass 25 psi setting
V1 Series (MPH 850, only)

Color coded pressure gauge scale 0-15 psi
Color coded pressure gauge scale 0-30 psi

Electrical indicator

With bypass 12 psi
EQ Series: Pressure switch with N.O. contacts
EB Series: Pressure switch with N.C. contacts
With bypass 25 psi
ER Series: Pressure switch with N.O. contacts
EC Series: Pressure switch with N.C. contacts

Operational information:
Max voltage: 48 Vac 50÷60 Hz
Max current: 0.5 A resistive, 0.2 A inductive.

Filter elements types

A Series

Absolute inorganic microfibre filtration media, available in 6, 10 and 25 micron
Example - **A06, A10** or **A25**

P Series

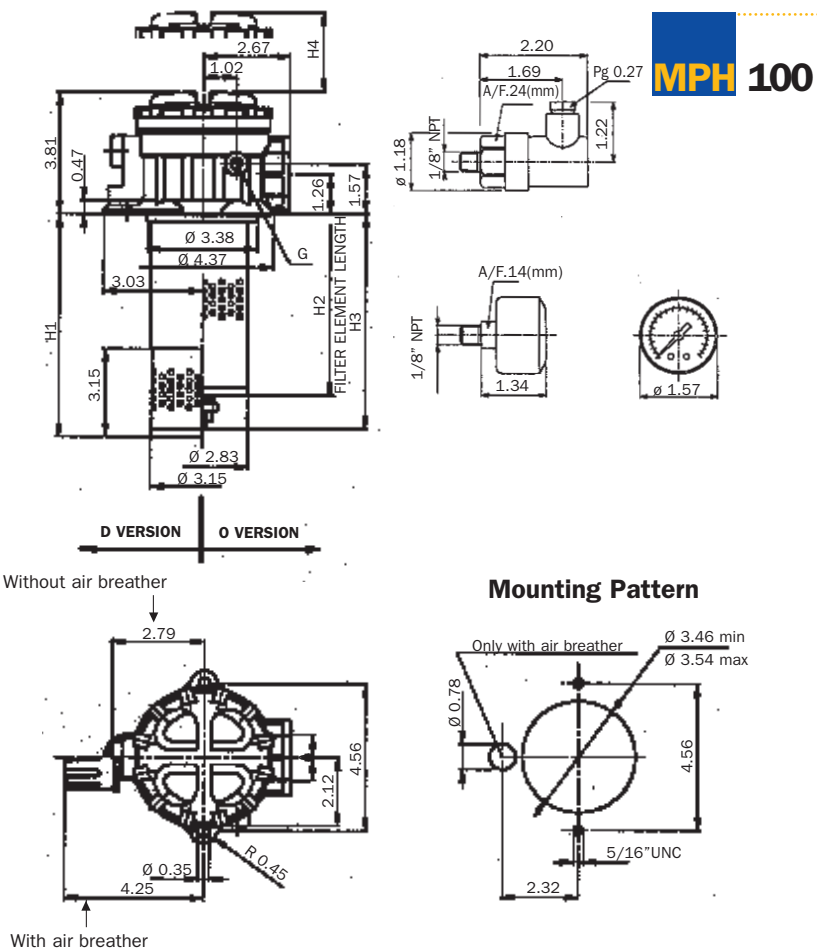
Nominal cellulose impregnated paper media, available in 10 and 25 micron.
Example - **P10** or **P25**

M Series

Metal mesh media, available in 25, 60, and 90 micron.
Example - **M25**, **M60** or **M90**.

Please refer to individual pressure drop curves to obtain filter assembly pressure drop information

The following filter sizing recommendations are based using a mineral oil fluid at 150 SUS with a maximum total filter assembly (housing and filter element) pressure drop of 30% of the filter condition indicator 5.8 psi (bypass type C)



MPH SERIES 100 SIZE

Filter assembly	Flow rate gpm *	Bowl length	Port size BSP/NPT/SAE	Weight lb **
A06	7.1	1	3/4"	2.2
A10	9.2			
A25	26.4			
P10	21.1			
A06	9.2	2	3/4"	2.64
A10	10.5			
A25	29			
P10	26.4			
A06	14.5	3	1"	2.86
A10	19.8			
A25	42.2			
P10	34.3			
A06	18.5	4	1 1/4"	3.3
A10	27.8			
A25	58.1			
P10	50.2			

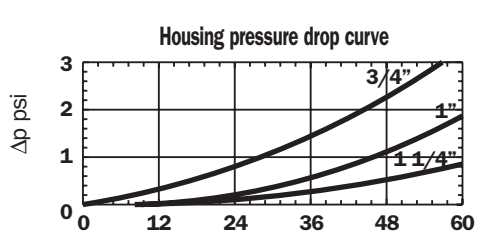
* Flow rates with 150 SUS fluid
** Weight including filter element and diffuser

Lengths

Type	H1	H2	H3	H4
1	7	4.17	5.04	7.48
2	7	5.9	6.77	9.05
3	8.97	7.87	8.74	11.02
4	12.91	11.81	12.67	14.96

Thread connections

Type	A	G
G1	3/4" BSP	1/8" BSP
G2	1" BSP	1/8" BSP
G3	1 1/4" BSP	1/8" BSP
G4	3/4" NPT	1/8" NPT
G5	1" NPT	1/8" NPT
G6	1 1/4" NPT	1/8" NPT
G7	SAE 12 - 1 1/6" - 12 UN	1/8" NPT
G8	SAE 16 - 1 5/16" - 12 UN	1/8" NPT
G9	SAE 20 - 1 5/8" - 12 UN	1/8" NPT



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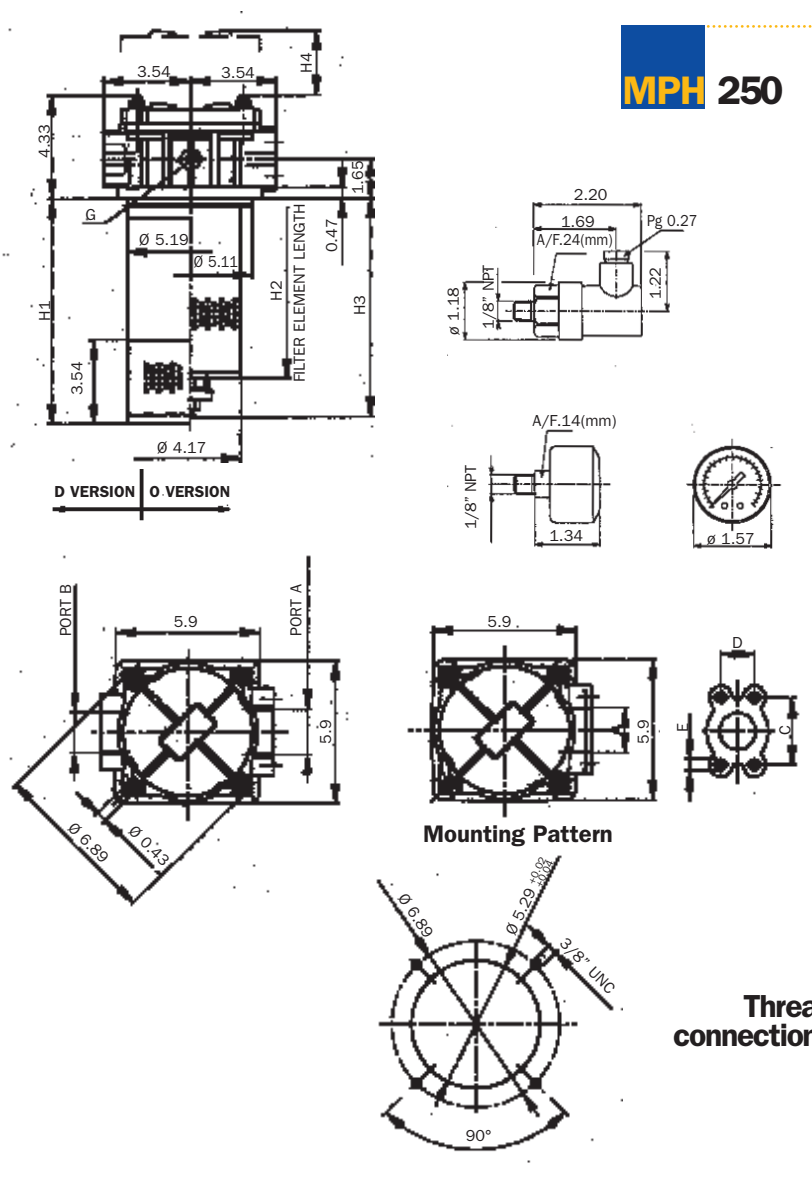


MPH SERIES 250 SIZE

Filter assembly	Flow rate gpm *	Bowl length	Port size BSP/NPT/SAE	Weight lb **
A06	26.4	1	1 1/2"	8.6 1 port
A10	30.4			
A25	52.8			9.5 2 ports
P10	47.5			
A06	32	2	1 1/2"	9 1 port
A10	42.2			
A25	58.1			9.9 2 ports
P10	52.8			
A06	45	3	1 1/2"	10.1 1 port
A10	54.1			
A25	74			11 2 ports
P10	68.6			
A06	79.2	4	1 1/2"	10.5 1 port
A10	95			
A25	132			11.5 2 ports
P10	118			

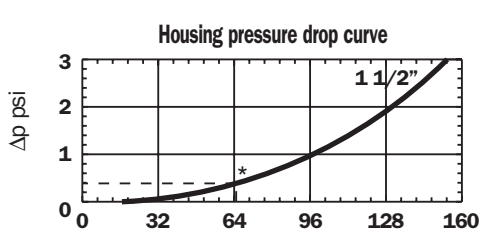
* Flow rates with 150 SUS fluid
** Weight including filter element and diffuser

Lengths

Type	H1	H2	H3	H4
1	9.44	5.51	6.89	10.24
2	9.44	7.48	8.86	12.20
3	12.2	10.23	11.61	14.96
4	20.27	18.3	19.69	22.83

Thread connections

Type	Port A	Port B	G
G1	1 1/2" BSP	Not available	1/8" BSP
G2	1 1/2" BSP	1 1/4" BSP	1/8" BSP
G3	Not available	——	——
G4	1 1/2" NPT	Not available	1/8" NPT
G5	1 1/2" NPT	1 1/4" NPT	1/8" NPT
G6	Not available	——	——
G7	SAE 24 - 1 7/8" - 12 UN	Not available	1/8" NPT
G8	SAE 24 - 1 7/8" - 12 UN	SAE 20 - 1 5/8" - 12 UN	1/8" NPT



Flange connections (1 port)

Type	A	C	D	E
F1	1 1/2" SAE - 3000 PSI/M	2.75	14.06	M12
F3	1 1/2" SAE - 3000 PSI/UNC	2.75	14.06	1/2" UNC

Flange connections (2 ports)

Type	Port A/B	C	D	E
F2	A:1 1/2" SAE - 3000 PSI/M	2.75	14.06	M12
	B:1 1/4" SAE - 3000 PSI/M	2.31	11.88	M10
F4	A:1 1/2" SAE - 3000 PSI/UNC	2.75	14.06	1/2" UNC
	B:1 1/4" SAE - 3000 PSI/UNC	2.31	11.88	3/8" UNC

Please refer to individual pressure drop curves to obtain filter assembly pressure drop information

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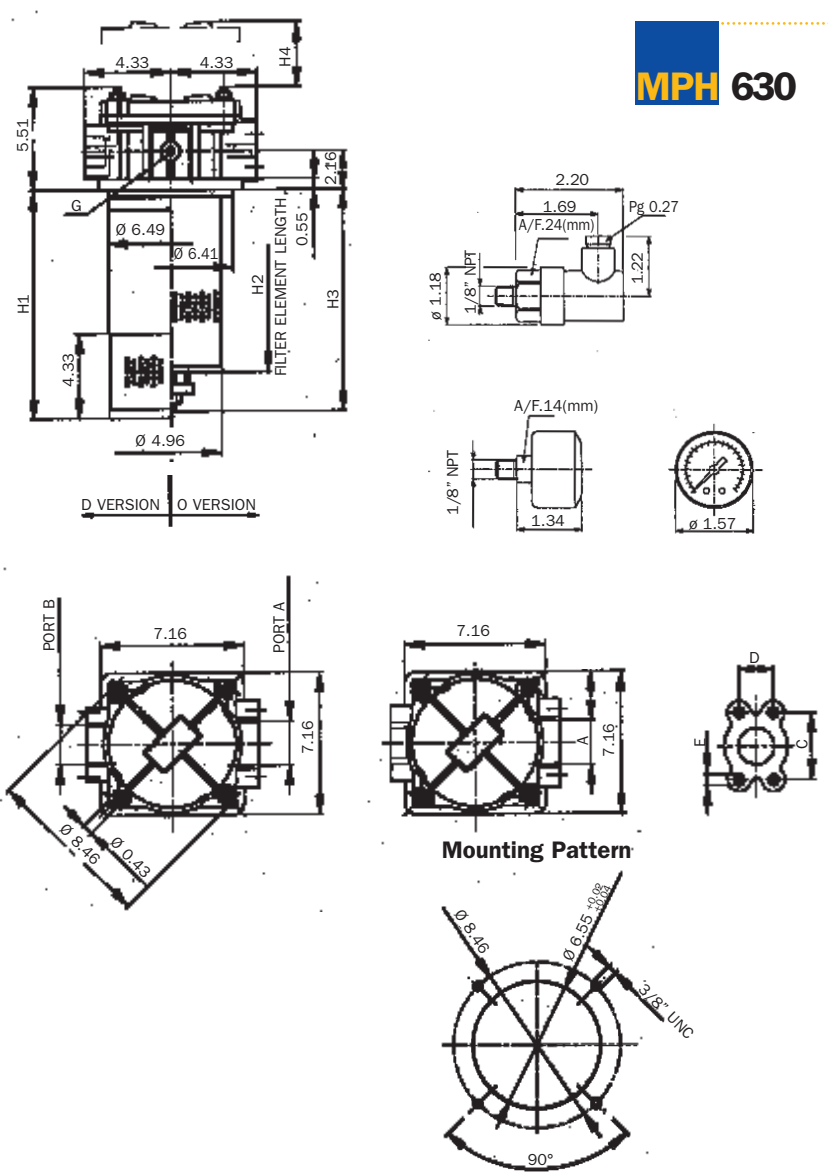


MPH SERIES 630 SIZE

Filter assembly	Flow rate gpm *	Bowl length	Port size BSP/NPT/SAE	Weight lb **
A06	58	1	2 1/2"	18
A10	84.5			
A25	132			
P10	85			
A06	66	2	2 1/2"	19.1
A10	105.6			
A25	158.4			
P10	116.2			
A06	74	3	2 1/2"	19.8
A10	116.2			
A25	237.6			
P10	142.6			
A06	86	4	2 1/2"	20.9
A10	126.8			
A25	264			
P10	211.2			

* Flow rates with 150 SUS fluid
** Weight including filter element and diffuser

Lengths

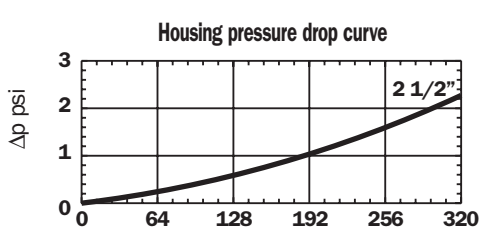
Type	H1	H2	H3	H4
1	11	8.26	10.23	13.78
2	14.17	11.41	13.38	16.93
3	18.1	15.35	17.32	20.86
4	21.65	18.81	20.86	24.41

Flange connections (1 port)

Type	A	C	D	E	G
F1	2 1/2" SAE - 3000 PSI/M	3.54	2	M12	1/8" BSP
F3	2 1/2" SAE - 3000 PSI/UNC	3.54	2	1/2" UNC	1/8" NPT

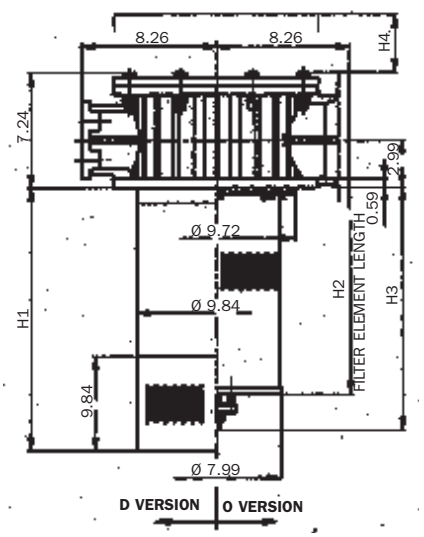
Flange connections (2 ports)

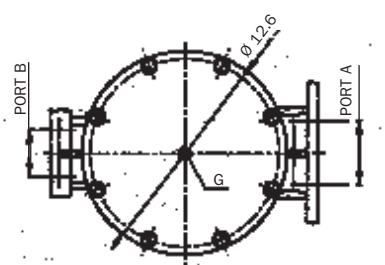
Type	Port A/B	C	D	E	G
F2	A: 2 1/2" SAE - 3000 PSI/M	3.54	2	M12	1/8" BSP
	B: 2" SAE - 3000 PSI/M	3.06	1.68	M12	
F4	A: 2 1/2" SAE - 3000 PSI/UNC	3.54	2	1/2" UNC	1/8" NPT
	B: 2" SAE - 3000 PSI/UNC	3.06	1.68	1/2" UNC	

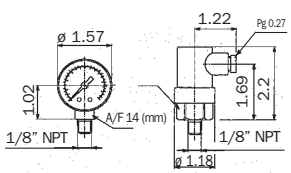


Please refer to individual pressure drop curves to obtain filter assembly pressure drop information

The following filter sizing recommendations are based using a mineral oil fluid at 150 SUS with a maximum total filter assembly (housing and filter element) pressure drop of 30% of the filter condition indicator 5.8 psi (bypass type C)

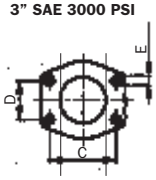


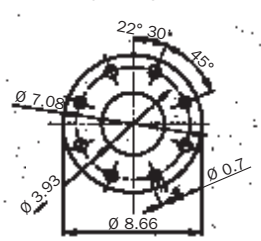




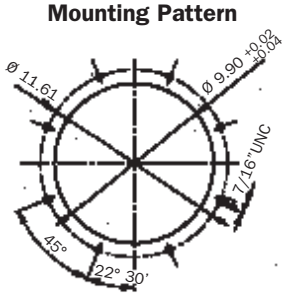
PORT A
DN 100 PN 10/16
UNI 2223

PORT B
3" SAE 3000 PSI





Mounting Pattern



MPH 850

MPH SERIES 850 SIZE

Filter assembly	Flow rate gpm	Bowl length	Port size BSP/NPT/SAE	Weight lb **
A06	118.8	1	4"	66
A10	171.6			
A25	264			
P10	211.2			
A06	185	2	4"	74.8
A10	264			
A25	396			
P10	264			
A06	225	3	4"	81.4
A10	317			
A25	462			
P10	396			
A06	264	4	4"	90.2
A10	396			
A25	554.4			
P10	475.2			

* Flow rates with 150 SUS fluid
** Weight including filter element and diffuser

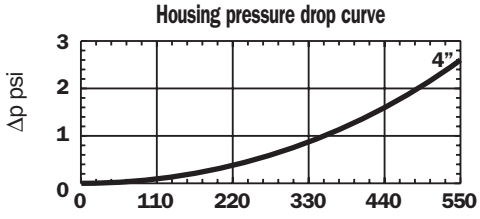
Lengths

Type	H1	H2	H3	H4
1	16.53	12.99	15.27	20.47
2	25	21.45	23.74	29.13
3	36.02	32.48	34.76	40.15
4	46.45	42.91	45.19	50.78

Flange connections

Type	Port A/B	C	D	E	G
F1	A: DN 100 PN 10/16				1/8" BSP
	B: 3" SAE - 3000 PSI/M	4.26	2.43	M16	
F2	A: DN 100 PN 10/16				1/8" NPT
	B: 3" SAE - 3000 PSI/UNC	4.18	2.43	5/8" UNC	

Housing pressure drop curve



Pressure drop information

General

Pressure drop versus flow rate curve information for both housing and filter elements is in accordance with ISO 3968

Filter assembly pressure drop - Δp Total = Δp Housing + Δp Filter element

Housing pressure drop - The housing pressure drop is proportional to the fluid density

Filter element pressure drop - Filter element pressure drop is proportional to kinematic viscosity therefore always check the fluid operating temperature and fluid type to obtain the working viscosity according to the following formula:

Δp_1 Filter element = (working viscosity/brochure viscosity) x Δp filter element

Brochure viscosity 150 SUS

Filter assembly sizing example

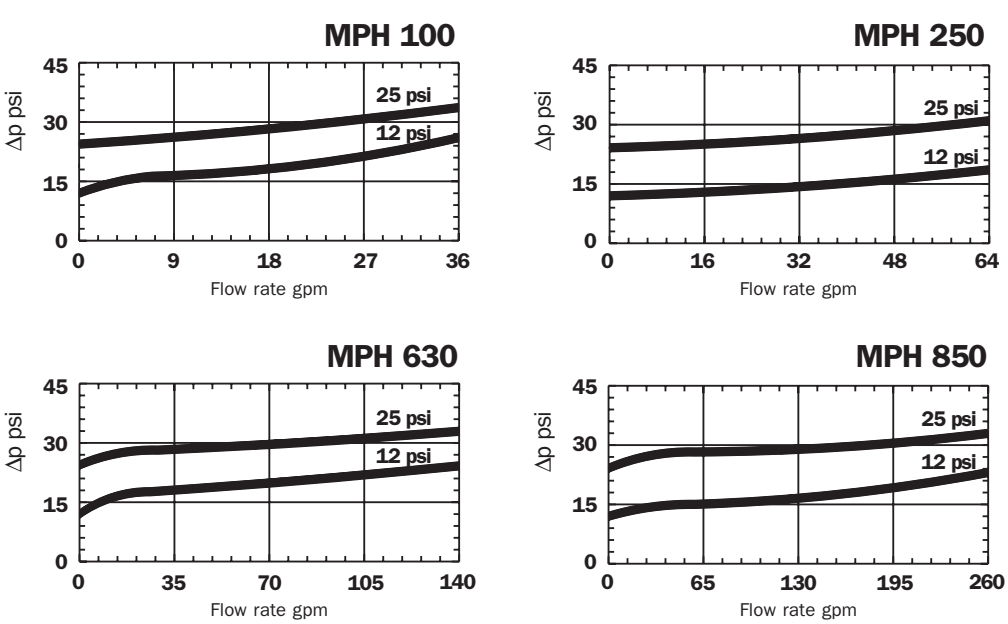
- Customer requires a 66 gpm filter assembly (with bypass valve setting at 5.8 psi type C)
- Mineral oil fluid: 230 SUS at 104°F
- A25 - 25 micron absolute filtration

Selection :

- **Housing pressure drop** - MPH 250-3 with 66 gpm Δp = 0.38 psi (see curve on page 6)
- **Filter element pressure drop** (brochure viscosity) - MR 250-3 A25 with 66 gpm Δp = 3.25 psi (see curve on page 10)
- **Filter element pressure drop** (working viscosity) - With 230 SUS Δp_1 = 3.25 x (230/150) = 4.98 psi
- **Filter assembly pressure drop** Δp Total = Δp Housing + Δp_1 Filter element = 0.38 + 4.98 = **5.36 psi*** { Acceptable pressure drop value, as per our recommendations

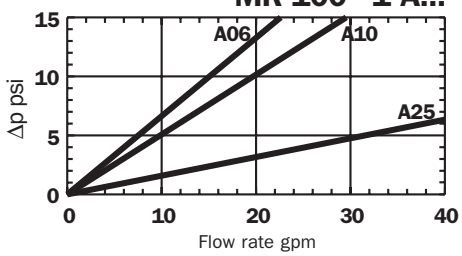
Bypass valves pressure drop

The curves were obtained using a mineral oil with a density of 0,86.
The Δp varies proportionally to the density.

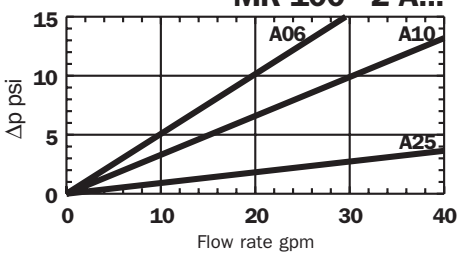


The curves were obtained using a mineral oil with a kinematic viscosity of 150 SUS.
The Δp varies proportionally to the fluid kinematic viscosity.

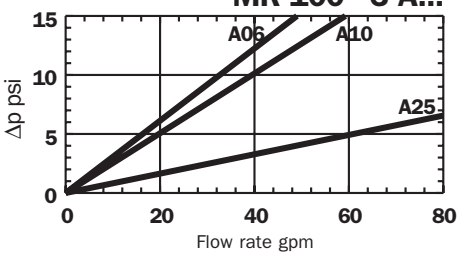
MR 100 - 1 A...



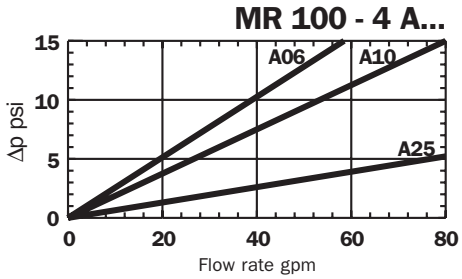
MR 100 - 2 A...



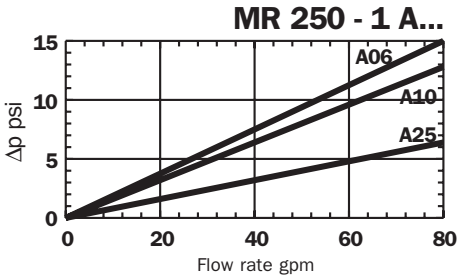
MR 100 - 3 A...



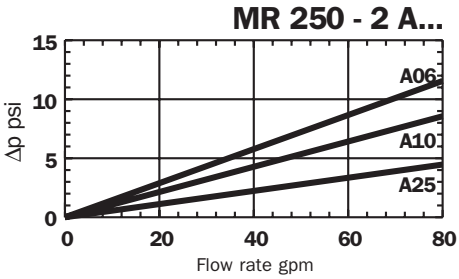
MR 100 - 4 A...



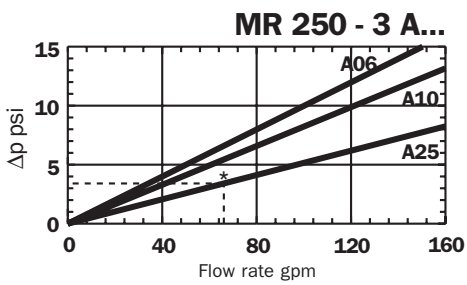
MR 250 - 1 A...



MR 250 - 2 A...



MR 250 - 3 A...



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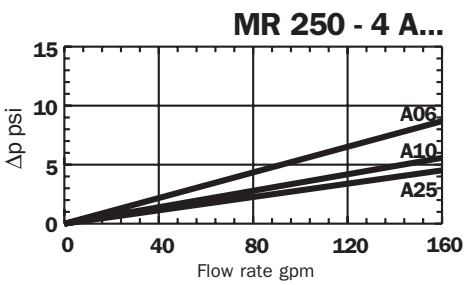

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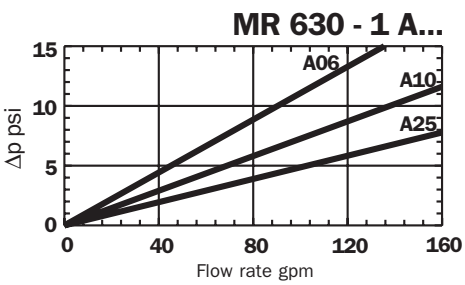

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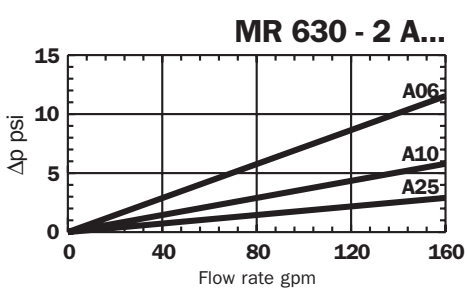

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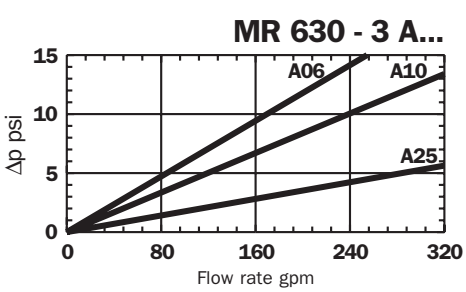

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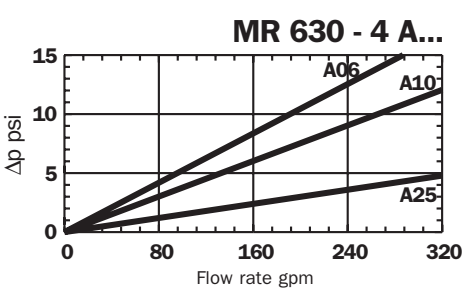
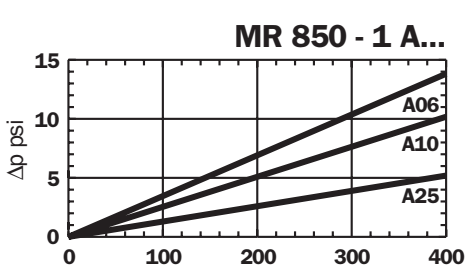


MR 850 - 1 A...



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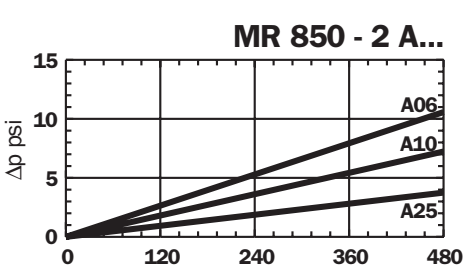

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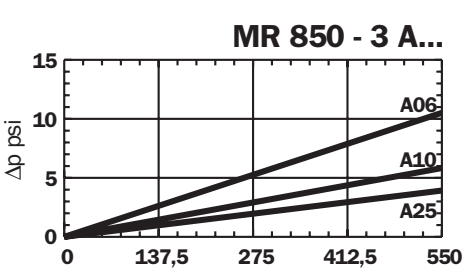

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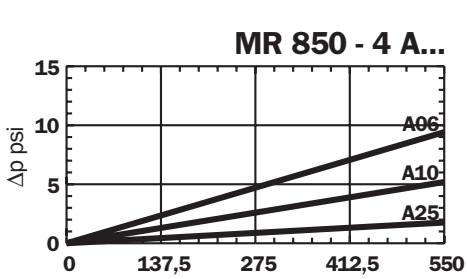


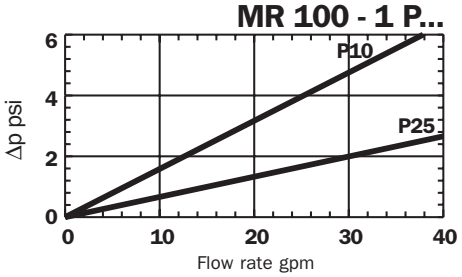
* Example: See page 9

Filter elements - P Series -

The curves were obtained using a mineral oil with a kinematic viscosity of 150 SUS.
The Δp varies proportionally to the fluid kinematic viscosity.

For the metal mesh filter elements curves (M series), please consult our Sales and Network Organization

MR 100 - 1 P...



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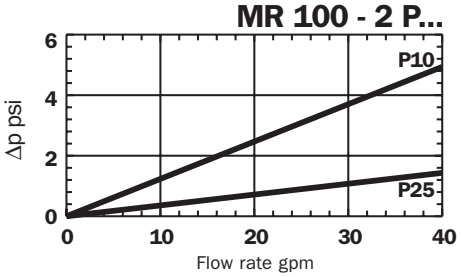

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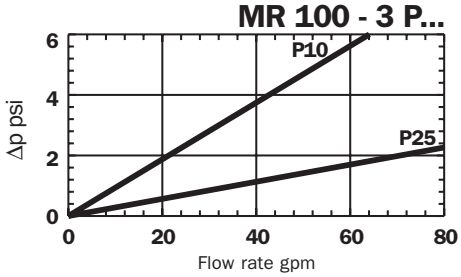

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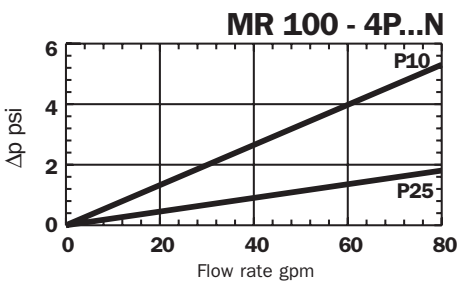

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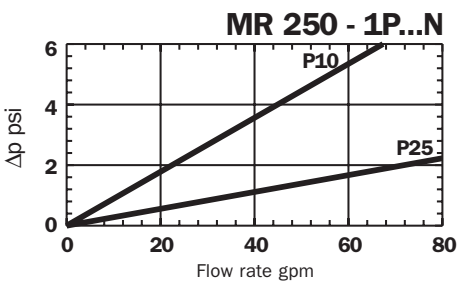

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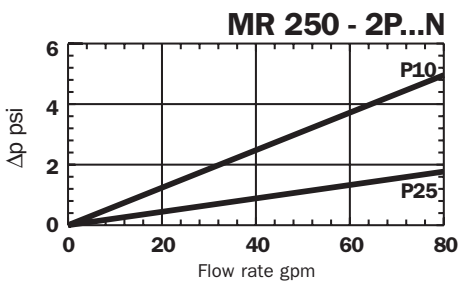

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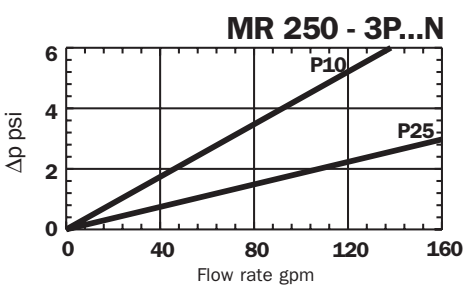

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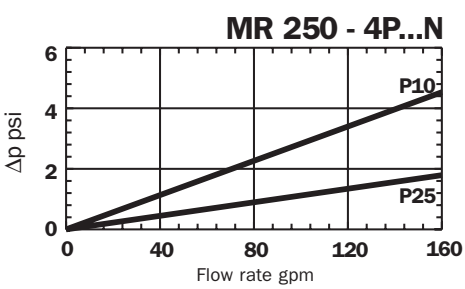

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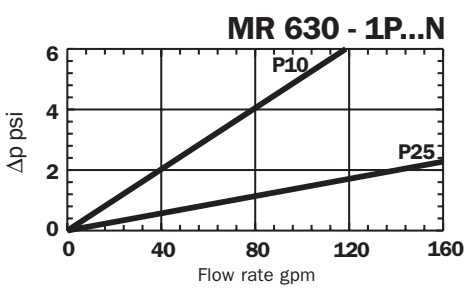

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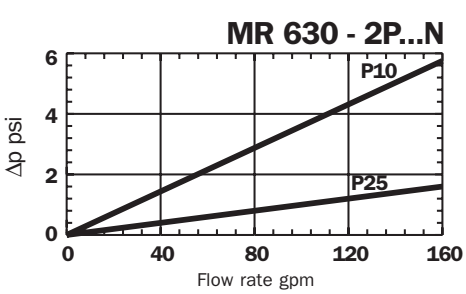
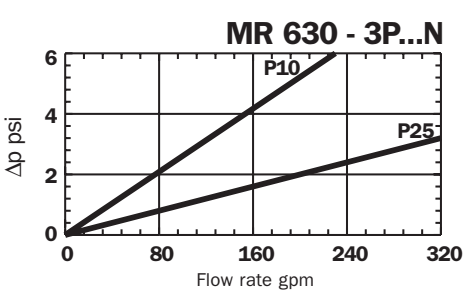
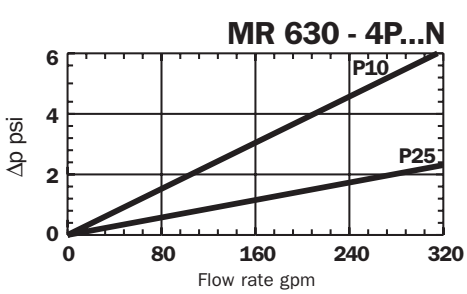


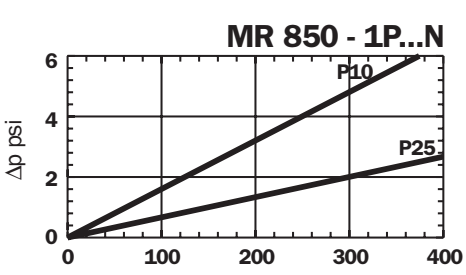
MR 630 - 3P...N



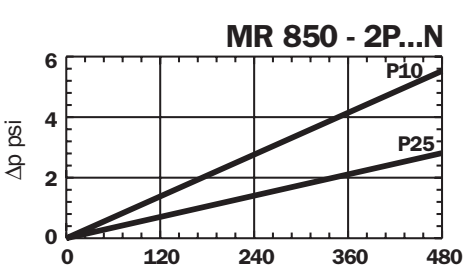
MR 630 - 4P...N



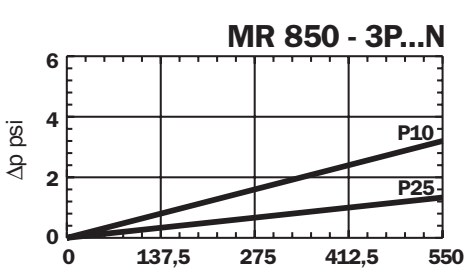
MR 850 - 1P...N



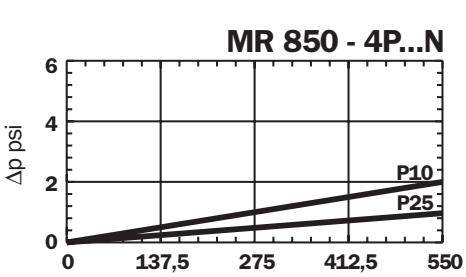
MR 850 - 2P...N

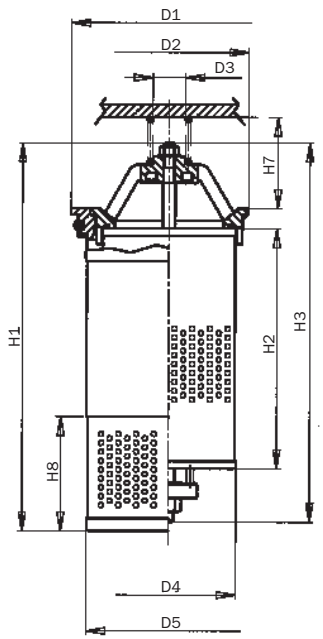


MR 850 - 3P...N

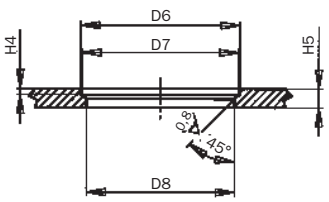


MR 850 - 4P...N

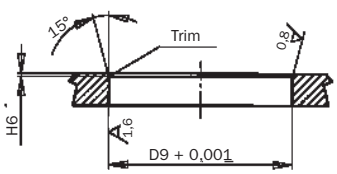




Tank internal plate without diffuser



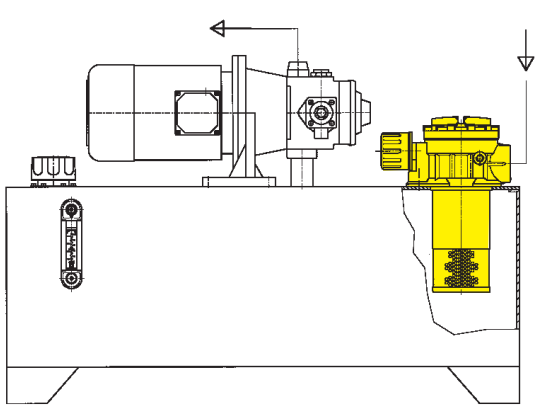
Tank internal plate with diffuser



Type	H1	H2	H3	H4	H5	H6	H7	H8	D1	D2	D3	D4	D5	D6	D7	D8	D9
100-1	9.64	4.17	7.08	0.15	0.47	0.09	1.77	3.15	4.72	3.42	0.78	2.83	3.50	3.46	3.25	2.99	4.33
100-2	9.64	5.9	8.81														
100-3	11.61	7.87	10.78														
100-4	11.55	11.81	14.72														
250-1	12.08	5.51	9.84	0.19	0.59	0.09	3.07	3.54	6.10	4.94	0.98	4.17	5.19	4.96	4.86	4.60	5.71
250-2	12.08	7.48	11.81														
250-3	14.84	10.23	14.57														
250-4	22.91	18.3	22.71														
630-1	13.97	8.26	13.42	0.19	0.7	0.09	3.93	4.33	7.28	5.91	0.98	4.96	6.50	5.94	5.87	5.47	7.01
630-2	17.52	11.41	16.57														
630-3	22.45	11.35	20.51														
630-4	25	18.82	23.97														
850-1	20.88	12.99	20.27	0.23	0.78	0.09	5.51	9.85	10.24	9.06	1.57	7.99	9.64	9.10	8.84	8.54	9.86
850-2	29.35	21.45	28.74														
850-3	40.37	32.48	38.76														
850-4	50.8	42.91	50.19														

Applications

Example of application



Ordering information

MPI [ ] [ ] [ ] [ ] [ ] [ ]

Nominal sizes

100
250
630
850

Filter elements

A06 A10 A25	Inorganic microfiber Bx ≥ 200
P10 P25	Resin-impregnated paper Bx ≥ 2
M25 M60 M90	Square wire mesh

Lengths

MPH 100 = 1,2,3,4
MPH 250 = 1,2,3,4
MPH 630 = 1,2,3,4
MPH 850 = 1,2,3,4

Seals

A	Nitrile (Buna-N)
V	Viton

Integral bypass valve

B	Setting: 12 psi
C	Setting: 25 psi

Models

O	Without diffuser
D	With diffuser

MR [ ] [ ] [ ] [ ]

Replacement element

Ordering information

MPH [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Nominal sizes

100
250
630
850

Lengths

MPH 100 = 1,2,3,4
MPH 250 = 1,2,3,4
MPH 630 = 1,2,3,4
MPH 850 = 1,2,3,4

Integral bypass valve

B	Setting: 12 psi
C	Setting: 25 psi

Models

0	Without diffuser
D	With diffuser

Air breather

S	Without air breather
C	With 10 µm air breather (100 series only)
M	With 40 µm air breather (100 series only)

Seals

A	Nitrile (Buna-N)
V	Viton

Filter condition indicator

S	With threaded hole only
T	With plug
VT	Visual (setting at 8.7 psi)
VR	Visual (setting at 15 psi)
V1	Visual MPH 850 only (setting at 15 psi)
EQ	Electrical: N.O.contacts (setting at 8.7 psi)
EB	Electrical: N.C.contacts (setting at 8.7 psi)
ER	Electrical: N.O.contacts (setting at 15 psi)
EC	Electrical: N.C.contacts (setting at 15 psi)

Filter elements

A06 A10 A25	Inorganic microfiber Bx ≥ 200
P10 P25	Resin-impregnated paper Bx ≥ 2
M25 M60 M90	Square wire mesh

Ports option

3000 PSI

Type	100	250	630	850
G1	3/4" BSP	1 1/2" BSP	———	———
G2	1" BSP	1 1/2" BSP 1 1/4" BSP	———	———
G3	1 1/4" BSP	———	———	———
G4	3/4" NPT	1 1/2" NPT	———	———
G5	1" NPT	1 1/2" NPT 1 1/4" NPT	———	———
G6	1 1/4" NPT	———	———	———
G7	SAE 12	SAE 24	———	———
G8	SAE 16	SAE 24 SAE 20	———	———
G9	SAE 20	———	———	———
F1 (M)	———	1 1/2" SAE	2 1/2" SAE	DN 100 PN 10/16 3" SAE
F2 (M)	———	1 1/2" SAE 1 1/4" SAE	2 1/2" SAE 2" SAE	———
F3 (UNC)	———	1 1/2" SAE	2 1/2" SAE	DN 100 PN 10/16 3" SAE
F4 (UNC)	———	1 1/2" SAE 1 1/4" SAE	2 1/2" SAE 2" SAE	———

MPH 250, G2-G5-G8 options have double port connection.
MPH 250-630, F2-F4 options have double port connection.
MPH 850 options, only available with double port connection.

MR [ ] [ ] [ ] [ ]

Replacement element

MP Filtri - Filtration products will only be guaranteed if original MP Filtri replacement elements and spares are used

New Headquarters :

MP FILTRI S.p.A. Italy
Via 1° Maggio, n. 3
20060 Pessano con Bornago
(Milano) Italy
Tel. +39.02/95703.1
Fax +39.02/95741497-95740188
email: sales@mpfiltri.com
http://www.mpfiltri.com

GREAT BRITAIN
MP FILTRI U.K. Ltd.
Bourton Industrial Park
Bourton on the Water
Gloucestershire GL54 2HQ UK
Phone: +44.01451-822522
Fax: +44.01451-822282
email: sales@mpfiltri.co.uk
http://www.mpfiltri.com

GERMANY
MP FILTRI D GmbH
Am Wasserturm 5
D-66265 Heusweiler/Holz
Phone: +49.(0)6806-85022.0
Fax: +49.(0)6806-85022.18
email: service@mpfiltri.de
http://www.mpfiltri.com

FRANCE
MP FILTRI FRANCE Sas
198 Avenue des Gresillons
92600 Asnieres Sur Seine
France
Tel: +33.(0)1-40-86-47-00
Fax: +33.(0)1-40-86-47-09
email: contact@mpfiltrifrance.com
http://www.mpfiltri.com

USA
MP FILTRI USA Inc.
2055 Quaker Pointe Drive
Quakertown, PA 18951
Phone: +1.215-529-1300
Fax: +1.215-529-1902
email: sales@mpfiltriusa.com
http://www.mpfiltriusa.com

CANADA
MP FILTRI CANADA Inc.
380 Four Valley Drive Concorde
Ontario Canada L4K 5Z1
Phone: +1.905-303-1369
Fax: +1.905-303-7256
email: mail@mpfiltricanada.com
http://www.mpfiltricanada.com

RUSSIAN FEDERATION
MP FILTRI RUSSIA
Phone/Fax: +7(495)220-94-60
P.O. Box 44 127562 Moscow, Russia
email: mpfiltrirussia@yahoo.com
http://www.mpfiltri.ru

CHINA
MP FILTRI (Shanghai) Co. Ltd.
1280 Lianxi Rd, 8 Bld - 2 Floor
Shanghai, Pudong
201204 P.R. China
Phone: + 86.21-58919916
Fax: + 86.21-58919667
email: sales@mpfiltrishanghai.com
http://www.mpfiltri.com