Комбинированные возвратно-всасывающие фильтры

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THE X CONCEPT FOR OUR FILTERS

Protect the performance of your system with MYclean.
Quality and efficiency are fundamental for MP Filtri:
this exclusive new filter element possesses polygon shape geometry and specific seal that ensures only original spare parts can be used - ensuring correct operation and higher system reliability.

MRSX series

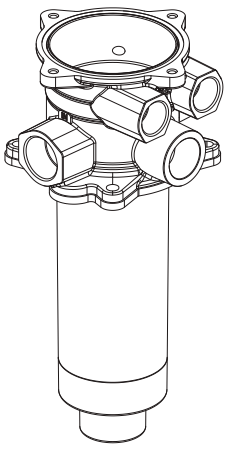
with MYCLEAN RSX Filter Element

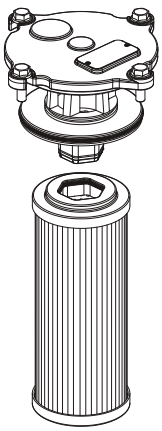
- **Protects the machine from improper use of non-original products.**
- **Safety of constant quality protection & reliability**

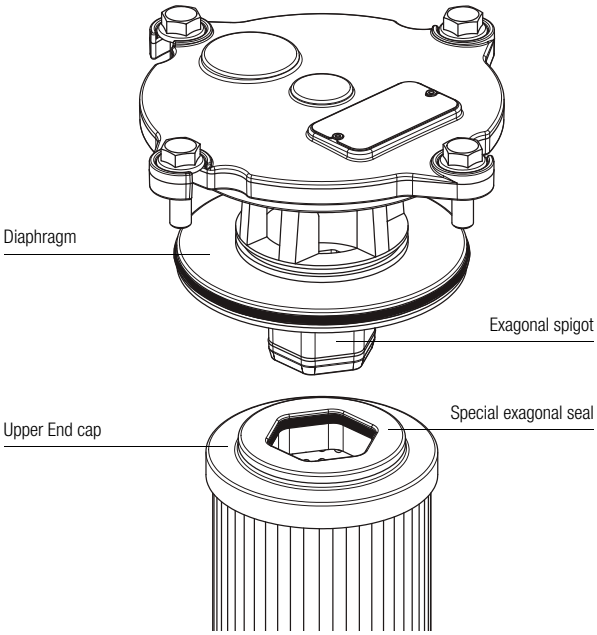
With exclusive filter element you are sure that only MP Filtri filter elements can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.

The products identified as MRSX are protected by:

- Italian Patent n° 102014902261205
- Canadian Patent n° 2,937,258
- European Patent n° 3 124 092 B1
- US Patent n° 20170030384 A1







MRSX series

Maximum working pressure up to 1 MPa (10 bar) - Flow rate up to 250 l/min

MRSX GENERAL INFORMATION

Description

Return / Suction filter | Tank mounted

Maximum working pressure up to 1 MPa (10 bar)
Flow rate up to 250 l/min

MRSX is a range of suction/return filters for hydraulic systems with two or more circuits (both open and closed loops). They are able to provide pressurized oil cleaned by fine filtration to the feed pump of the hydrostatic systems.
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 return connections up to 1 1/4", for a maximum return flow rate of 250 l/min
- Multiple connections, to connect several return and suction lines
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve to the tank, to relieve excessive pressure drop across the filter media when the return flow is enough higher than the suction flow
- Bypass valve to the suction line with additional suction filter element, to relieve excessive pressure drop across the filter media when the return flow is not enough higher than the suction flow
- De-pressurization valve, to reduce the pressure inside the filter during the maintenance operations
- Anti-cavitation valve with additional suction filter element, to ensure fluid to the feed pump of the hydrostatic systems during cold starts or initial filling
- O-ring or Flat Seal to suit a variety of reservoir surfaces
- Reservoir side mounting, to save space in the machines
- Visual, electrical and electronic clogging indicators
- MYclean interface connection, to protect the product against non-original spare parts
- External protective wrap, to optimize the flow through the element and to save the element efficiency against non-proper handling

Common applications:
Mobile machines with hydrostatic systems on board
(i.e. skid steer loaders, telehandlers, dumpers, road sweepers)

Technical data

Filter housing materials
- Head: Aluminium

- Cover
  Polyamide: MRSX 116
  Aluminium: MRSX 165-166

- Bowl: Polyamide

Δp element type
- RSX: 10 bar
- Oil flow from exterior to interior.

Seals
- Standard NBR series A
- Optional FPM series V

Temperature
From -25 °C to +110 °C

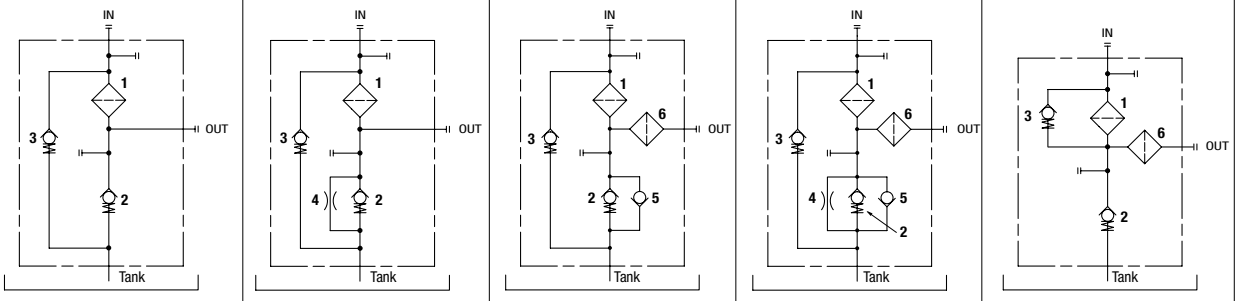
Flow rates [l/min]

Filter series	Length	A10	A16	A25
MRSX 116	1	74	82	87
	2	108	113	124
MRSX 165 - 166	1	155	166	178
	2	187	196	200
	3	201	205	217

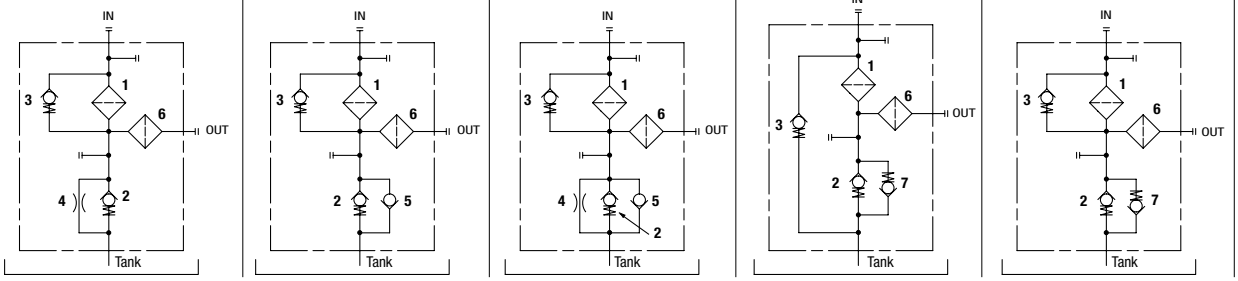
Maximum flow rate for a complete return/suction filter with a pressure drop Δp = 1 bar.
The reference fluid has a kinematic viscosity of 30 mm^2/s (cSt) and a density of 0.86 kg/dm^3.

Hydraulic symbols

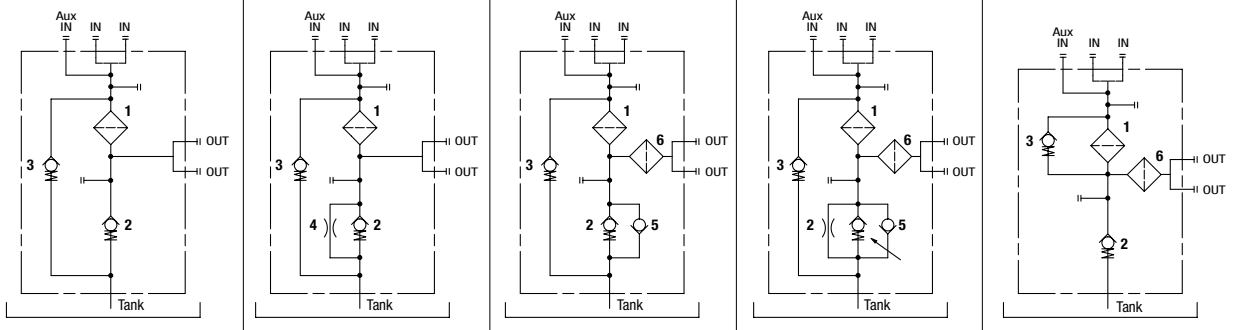
Valves A option	Valves B option	Valves C option	Valves D option	Valves E option	Filter series
					MRSX 116



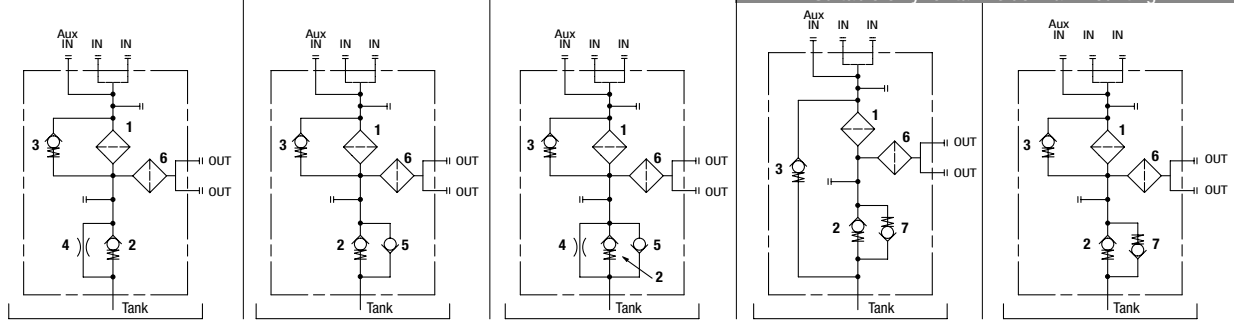
Valves F option	Valves G option	Valves H option	Valves I option	Valves M option
			Suitable only for tank side-wall mounting	



Valves A option	Valves B option	Valves C option	Valves D option	Valves E option	Filter series
					MRSX 165-166



Valves F option	Valves G option	Valves H option	Valves I option	Valves M option
			Suitable only for tank side-wall mounting	



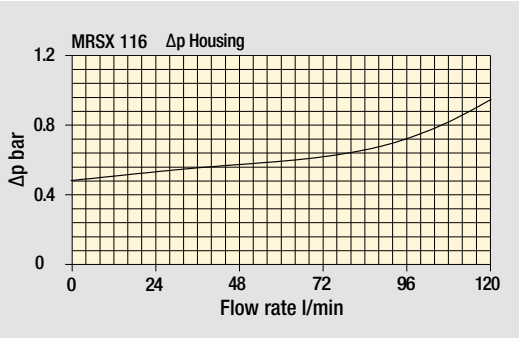
LEGEND

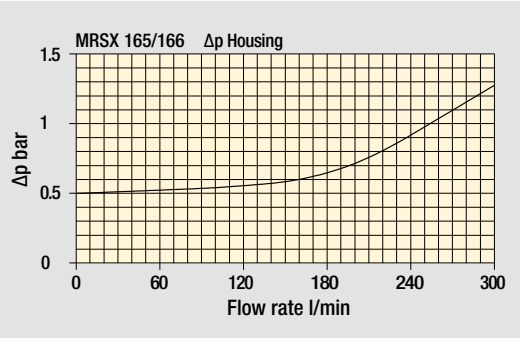
1 - Filter element
2 - Back-Pressure valve: opening pressure 0.5 bar ±10%
3 - Bypass valve: opening pressure 2.5 bar ±10%
4 - Depressurization valve
5 - Anti-Cavitation valve
6 - Safety filter element (wire mesh 60 µm)
7 - Anti-Cavitation valve / Anti-Emptying valve

MRSX GENERAL INFORMATION

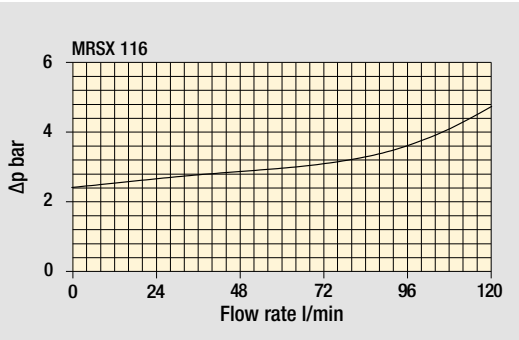
Pressure drop

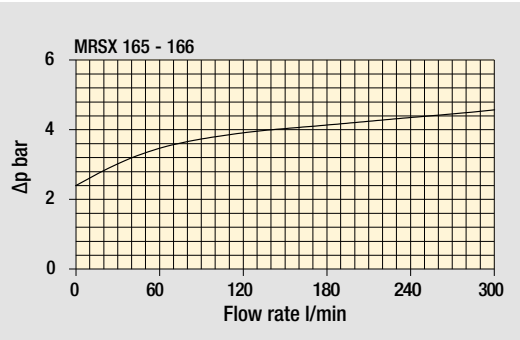
Filter housings Δp pressure drop





Bypass valve pressure drop





The curves are plotted using mineral oil with density of 0.86 kg/dm^3 in compliance with ISO 3968. Δp varies proportionally with density.

Weights [kg] and volumes [dm^3]

Filter series	Weights [kg]				Volumes [dm^3]			
	Length	1	2	3	Length	1	2	3
MRSX 116		1.30	1.40	-		0.80	1.00	-
MRSX 165		3.40	3.80	4.10		2.00	2.60	3.00
MRSX 166		3.40	3.80	4.10		2.00	2.60	3.00

MRSX MRSX116

Designation & Ordering code

COMPLETE FILTER

Configuration example: MRSX116 | 1 | B | A | G1 | 0 | A16 | B | P01

Series and size

MRSX116 Filter featuring MYCLEAN Filter Element

Length

1 | **2**

Hydraulic diagram configuration - see page 275

	Bypass valve to tank	Bypass valve to OUT
A | **B** | **C** | **D**	•	-
E | **F** | **G** | **H**	-	•
I	•	-
M	-	•

Seals and treatments

A	NBR, O-Ring on head	**B**	NBR, flat seal on head
V	FPM, O-Ring on head	**D**	FPM, flat seal on head

Connections IN		Connections OUT
G1	G 3/4"	G 3/4"
G2	G 1"	G 1"
G3	3/4" NPT	3/4" NPT
G4	1" NPT	1" NPT
G5	SAE 12 - 1 1/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN
G6	SAE 16 - 1 5/16" - 12 UN	SAE 16 - 1 5/16" - 12 UN
D1	G 1"	G 3/4"
D2	1" NPT	3/4" NPT
D3	SAE 16 - 1 5/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN

Aux IN connection

0 Without aux IN connection

Filtration rating (filter media)

A10 Inorganic microfiber 10 µm
A16 Inorganic microfiber 16 µm
A25 Inorganic microfiber 25 µm

Valves configuration

Mounting position	A	B	C	D	E	F	G	H	I	M
S Standard	•	•	•	•	•	•	•	•	-	-
B Tank side-wall mounting	•	•	-	-	•	•	-	-	•	•

Execution

P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Configuration example: RSX116 | 1 | A16 | A | P01

Element series and size

RSX116 Filter Element with MYCLEAN feature

Element length

1 | **2**

Filtration rating (filter media)

A10 Inorganic microfiber 10 µm
A16 Inorganic microfiber 16 µm
A25 Inorganic microfiber 25 µm

Seals

A NBR
V FPM

Execution

P01 MP Filtri standard
Pxx Customized

CLOGGING INDICATORS

See page 722-723

Indicators on Return Line

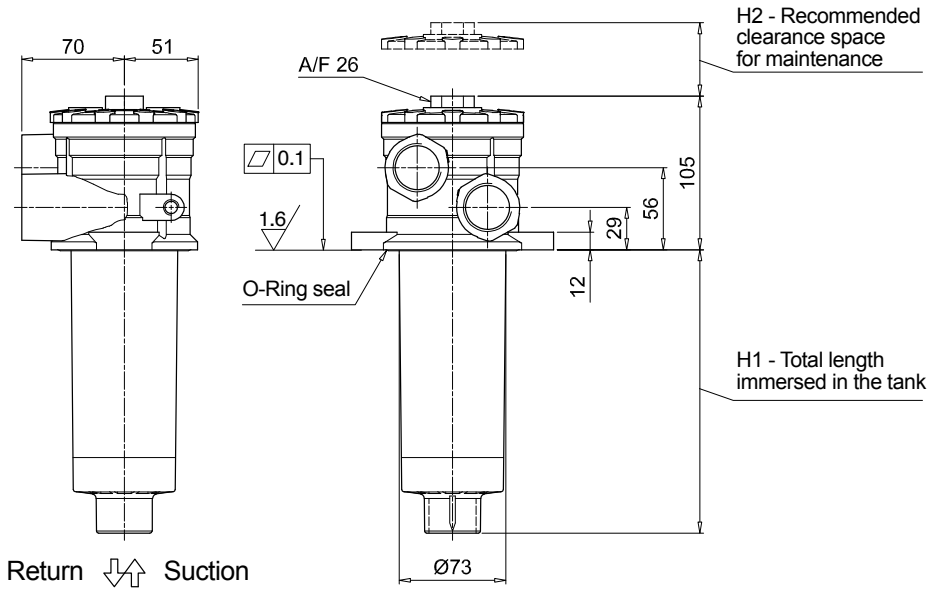
BVA Axial pressure gauge
BVR Radial pressure gauge
BVP Visual pressure indicator with automatic reset
BVQ Visual pressure indicator with manual reset
BEA Electrical pressure indicator
BEM Electrical pressure indicator
BET Electrical pressure indicator
BLA Electrical / visual pressure indicator

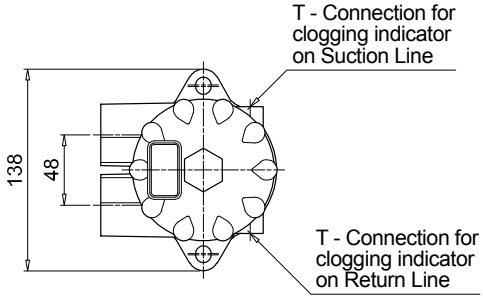
Indicators on Suction Line

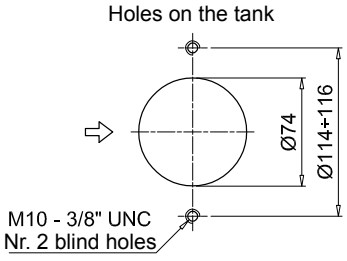
VVB Axial vacuum gauge
VVS Radial vacuum gauge
VEB Electrical vacuum indicator
VLB Electrical / visual vacuum indicator

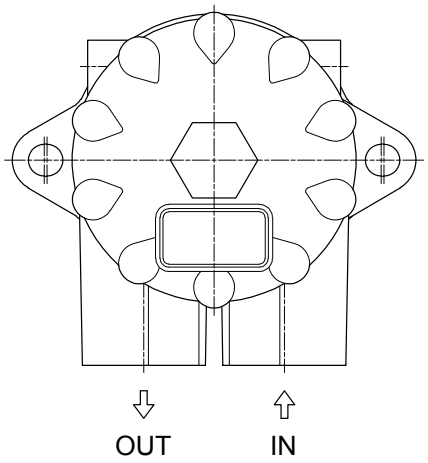
MRSX116		
Filter length	**H1 [mm]**	**H2 [mm]**
1	203	240
2	263	300

Connections	T
G1 - G2	G 1/8”
G3 - G4	1/8” NPT
G5 - G6	1/8” NPT
D1	G 1/8”
D2 - D3	1/8” NPT









MRSX MRSX165 - MRSX166

Designation & Ordering code

COMPLETE FILTER

Configuration example: MRSX166 | 2 | C | V | G3 | 1 | A10 | S | P01

Series and size

MRSX165 | **MRSX166** Filter featuring MYCLEAN Filter Element

Length

1 | **2** | **3**

Hydraulic diagram configuration - see page 275

	Bypass valve to tank	Bypass valve to OUT
A | **B** | **C** | **D**	•	-
E | **F** | **G** | **H**	-	•
I	•	-
M	-	•

Seals and treatments

A	NBR, O-Ring on head	**B**	NBR, flat seal on head
V	FPM, O-Ring on head	**D**	FPM, flat seal on head

Connections

	IN (size 165)	IN (size 166)	Aux IN	OUT
G1	G 1 1/4”	G 1”	G 1 1/4”	G 1”
G2	1 1/4” NPT	1” NPT	1 1/4” NPT	1” NPT
G3	SAE 20 - 1 5/8” - 12 UN	SAE 16 - 1 5/16” - 12 UN	SAE 20 - 1 5/8” - 12 UN	SAE 16 - 1 5/16” - 12 UN

Aux IN connection

		MRSX 165	MRSX 166
0	Without aux IN connection	•	-
1	With aux IN connection - see previous table	•	•

Filtration rating (filter media)

A10 Inorganic microfiber 10 µm
A16 Inorganic microfiber 16 µm
A25 Inorganic microfiber 25 µm

Valves configuration

Mounting position	A	B	C	D	E	F	G	H	I	M
S Standard	•	•	•	•	•	•	•	•	-	-
B Tank side-wall mounting	•	•	-	-	•	•	-	-	•	•

Execution

P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Configuration example: RSX165 | 2 | A10 | V | P01

Element series and size

RSX165 Filter Element with MYCLEAN feature

Element length

1 | **2** | **3**

Filtration rating (filter media)

A10 Inorganic microfiber 10 µm
A16 Inorganic microfiber 16 µm
A25 Inorganic microfiber 25 µm

Seals

A NBR
V FPM

Execution

P01 MP Filtri standard
Pxx Customized

CLOGGING INDICATORS

See page 722-723

Indicators on Return Line

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
BET Electrical pressure indicator
BLA Electrical / visual pressure indicator

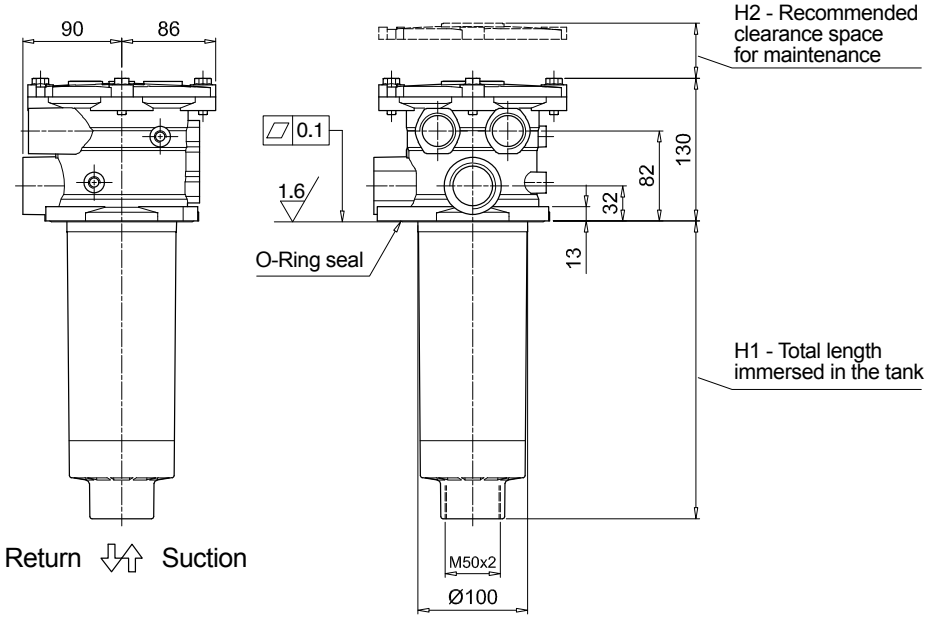
Indicators on Suction Line

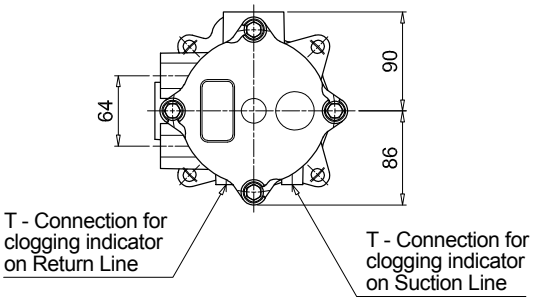
VVB Axial vacuum gauge
VVS Radial vacuum gauge
VEB Electrical vacuum indicator
VLB Electrical / visual vacuum indicator

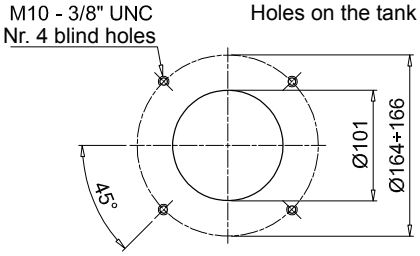
MRSX165

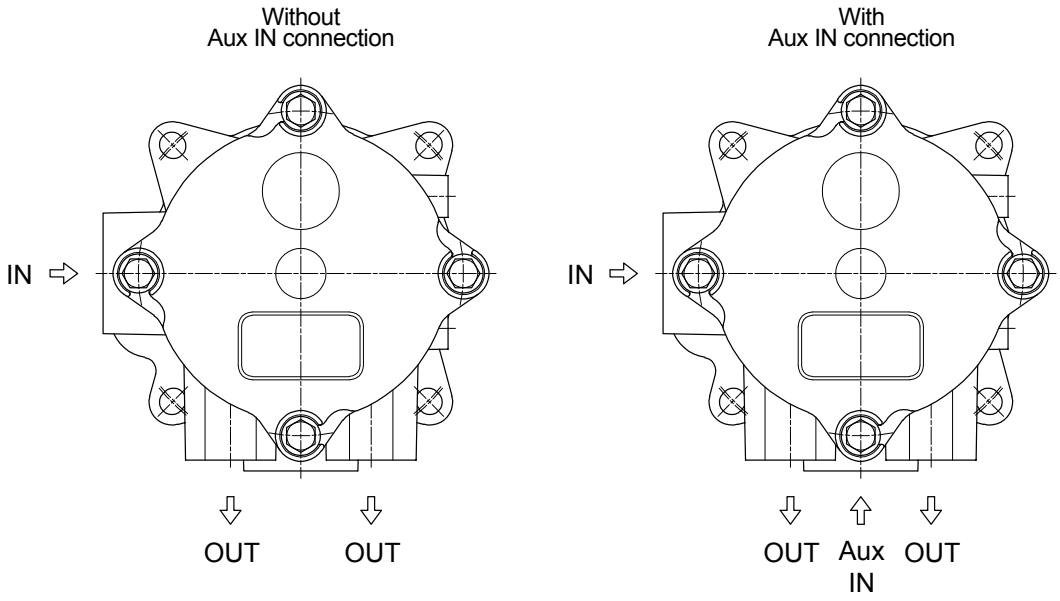
Filter length	H1 [mm]	H2 [mm]
1	270	320
2	378	430
3	445	500

Connections	T
G1	G 1/8"
G2 - G3	1/8" NPT



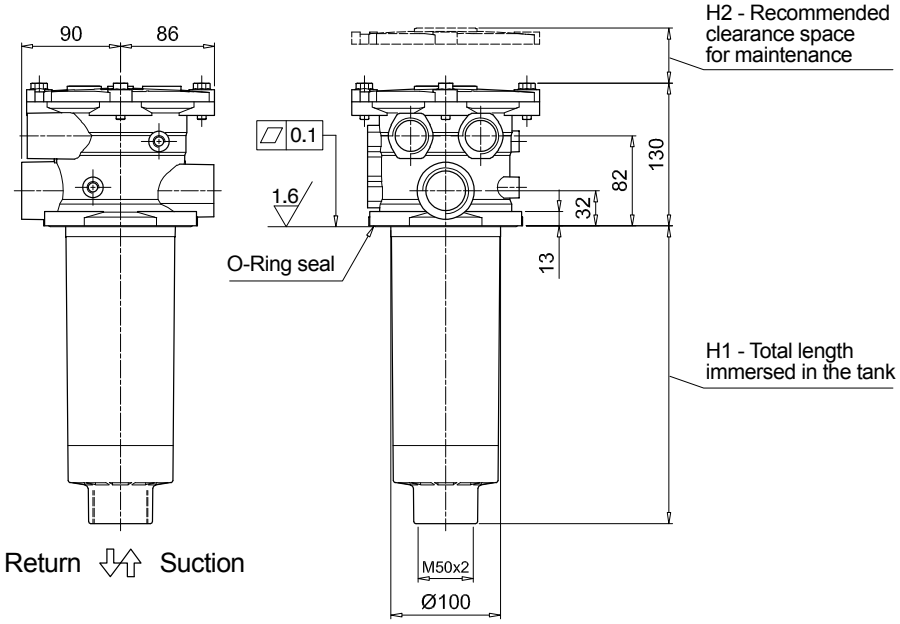


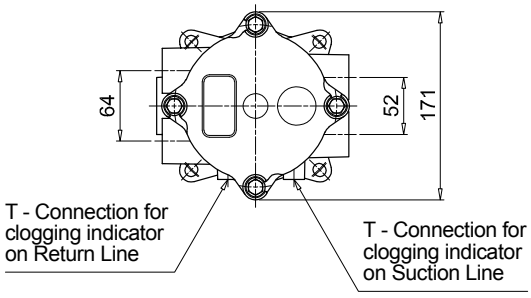


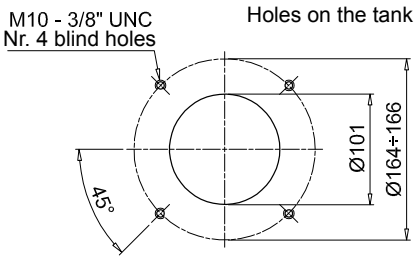


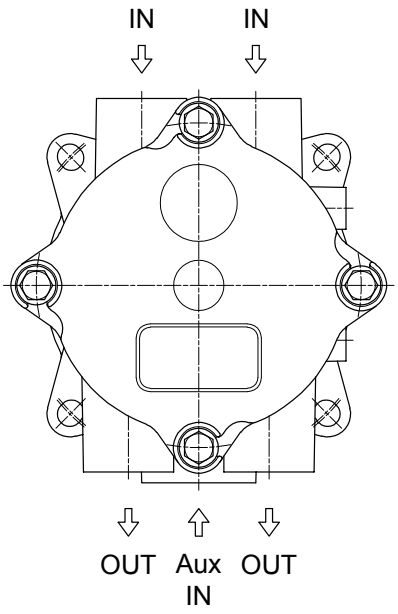
MRSX MRSX165 - MRSX166

Dimensions









MRSX166

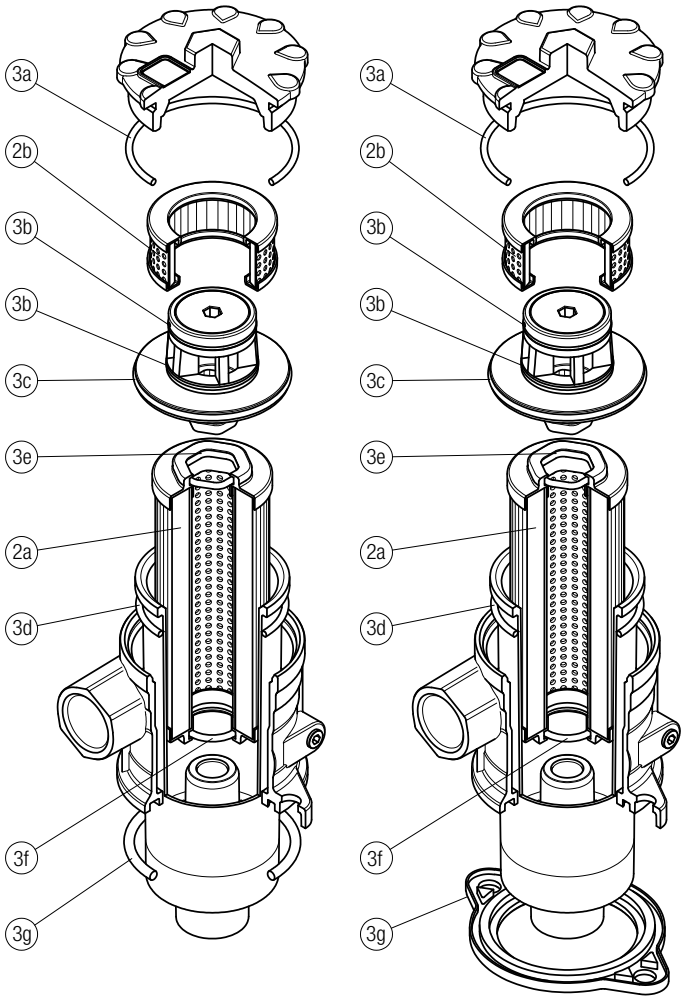
Filter length	H1 [mm]	H2 [mm]
1	270	320
2	378	430
3	445	500

Connections	T
G1	G 1/8"
G2 - G3	1/8" NPT

MRSX SPARE PARTS

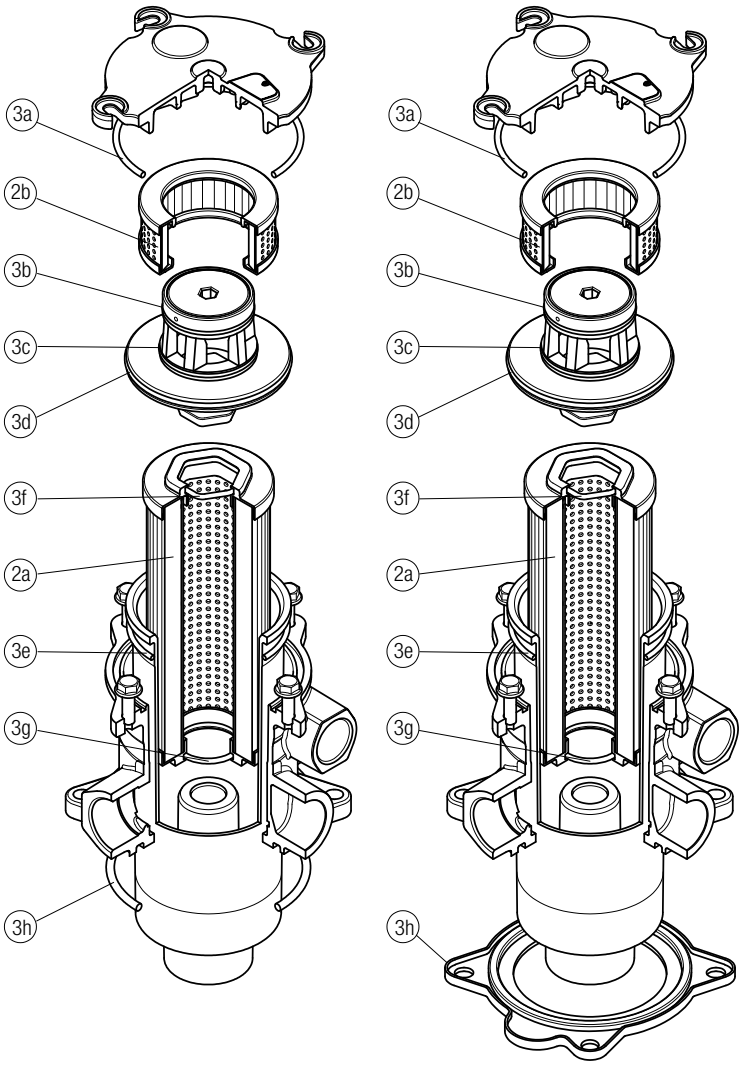
Order number for spare parts

MRSX 116



			O-RING SEAL		FLAT SEAL	
	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.		Q.ty: 1 pc.	
Item:	**2a**	**2b**	**3** (3a ÷ 3g)		**3** (3a ÷ 3g)	
Filter series	**Filter element**	**Safety filter element**	**Seal Kit code number NBR**	**FPM**	**Seal Kit code number NBR**	**FPM**
MRSX 116	See order table	S116M60P01	02050617	02050619	02050618	02050620

MRSX 165 - 166



Item:	Q.ty: 1 pc. (2a)	Q.ty: 1 pc. (2b)	O-RING SEAL Q.ty: 1 pc. (3) (3a ÷ 3h)		FLAT SEAL Q.ty: 1 pc. (3) (3a ÷ 3h)	
Filter series	**Filter element**	**Safety filter element**	**Seal Kit code number NBR**	**FPM**	**Seal Kit code number NBR**	**FPM**
MRSX 165	See order table	S165M60P01	02050627	02050630	02050628	02050631
MRSX 166			02050627	02050630	02050629	02050632

Designation & Ordering code

VACUUM INDICATORS

Configuration example 1:	VE	A	21	V	A	50	P01	EX
Configuration example 2:	VL	B	21	A	A	71	P01	
Configuration example 3:	VV	R	20				P01	

Series

- **VE** Electrical vacuum indicator
- **VL** Electrical/Visual vacuum indicator
- **VV** Vacuum gauge

Type VE - VL

- **A** Connection EN 10226 - R1/4”
- **B** Connection EN 10226 - R1/8”

Type VV

- **A** Axial connection EN 10226 - R1/4”
- **B** Axial connection EN 10226 - R1/8”
- **R** Radial connection EN 10226 - R1/4”
- **S** Radial connection EN 10226 - R1/8”

Vacuum setting	VE	VL	VV
20 -0.16 bar	-	-	•
21 -0.21 bar	•	•	-

Seals	VEA - VLA	VEB - VLB
A NBR	•	•
V FPM	•	-

Thermostat	VE	VL
A Without thermostat	•	•

Electrical connections	VE	VL
50 Connection EN 175301-803	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	•
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	•
53 Connection EN 175301-803, transparent base with lamps 230 Vac	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	•

Option

- **P01** MP Filtri standard
- **Pxx** Customized

Certifications	VEA21A	VEA21V	VEB	VL	VV
Without	•	•	•	•	•
EX ATEX certification	•	•	•	-	-
UL UL certification	•	-	-	-	-

BAROMETRIC (PRESSURE) INDICATORS

Configuration example 1:	BE	M	15	H	A	41	P01	EX
Configuration example 2:	BL	A	20	H	A	71	P01	
Configuration example 3:	BV	R	14				P01	
Configuration example 4:	BV	P	20	H			P01	

Series

- **BE** Electrical pressure indicator
- **BL** Electrical/Visual pressure indicator
- **BV** Visual pressure indicator

Type	BE	BL
A Standard type	•	•
M With wired electrical connection	•	-
T With thermal switch	•	-

BV

- **A** Axial connection pressure gauge
- **R** Radial connection pressure gauge
- **P** Visual indicator with automatic reset
- **Q** Visual indicator with manual reset

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ
14 1.4 bar	-	-	-	•	-
15 1.5 bar	•	-	•	-	-
20 2.0 bar	•	•	•	-	•
25 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVP-BVQ
H HNBR	•	•	•

Thermostat	BEA-BEM	BET	BLA
A Without thermostat	•	-	•
F With thermostat	-	•	-

Electrical connections	BEA	BEM	BET	BL
10 Connection AMP Superseal series 1.5	-	-	•	-
30 Connection Deutsch DT-04-2-P	-	-	•	-
41 Connection via four-core cable	-	•	-	-
50 Connection EN 175301-803	•	-	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•
53 Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•

Option

- **P01** MP Filtri standard
- **Pxx** Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
EX ATEX certification	•	-	-	-
UL UL certification	•	-	-	-

DIFFERENTIAL PRESSURE INDICATORS

Configuration example 1:	DE	M	12	H	F	50	P01	
Configuration example 2:	DE	U	50	V	A	50	P01	UL
Configuration example 3:	DL	E	20	V	A	71	P01	
Configuration example 4:	DT	A	50	H	F	70	P01	
Configuration example 5:	DV	M	70	V			P01	

Series

DE Electrical differential pressure indicator
DL Electrical/Visual differential pressure indicator
DT Electronic differential pressure indicator
DV Visual differential pressure indicator

Type	DE	DL	DT	DV
A Standard type	•	•	•	**A** With automatic reset
M With wired electrical connection	•	-	-	**M** With manual reset
U Standard type 210 bar, UL certified	•	-	-	
E For high power supply	-	•	-	

Pressure setting	DEA	DEM	DEU	DLA	DLE	DTA	DVA	DVM
20 2.0 bar	•	•	•	•	•	•	•	•

Seals	DEA	DEM	DEU	DLA	DLE	DTA	DVA	DVM
H HNBR	•	•	-	•	•	•	•	•
V FPM	•	•	•	•	•	•	•	•

Thermostat	DEA	DEM	DEU	DLA	DLE	DT
A Without thermostat	•	•	•	•	•	-
F With thermostat	-	•	-	-	•	•

Electrical connections	DEA	DEM	DEU	DLA	DLE	DT
10 Connection AMP Superseal series 1.5	-	•	-	-	-	-
20 Connection AMP Timer Junior	-	•	-	-	-	-
30 Connection Deutsch DT-04-2-P	-	•	-	-	-	-
35 Connection Deutsch DT-04-3-P	-	•	-	-	-	-
50 Connection EN 175301-803	•	-	•	-	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•	-	-
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•	-	-
70 Connection IEC 61076-2-101 D (M12)	-	-	-	-	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•	-	-

Option

P01 MP Filtri standard
Pxx Customized

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

PLUGS

Configuration example	T2	H

Series

T2 Plug

Seals

H HNBR
V FPM

LMP 124 series
MULTIPORT

Maximum working pressure up to 8 MPa (80 bar) - Flow rate up to 120 l/min

LMP 124 GENERAL INFORMATION
MULTIPORT

Description

Return / Suction filter | In-line

Maximum working pressure up to 8 MPa (80 bar)
Flow rate up to 120 l/min

LMP124 is a range of return/suction filters for hydraulic systems with two or more circuits (both open and closed loops). They are able to provide pressurized oil cleaned by fine filtration to the feed pump of the hydrostatic systems.
They are directly connected to the lines of the system through the hydraulic fittings.

Available features:
- Female threaded connections up to 1", for a maximum return flow rate of 120 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve to the tank, to relieve excessive pressure drop across the filter media when the return flow is enough higher than the suction flow
- Bypass valve to the suction line with additional suction filter element, to relieve excessive pressure drop across the filter media when the return flow is not enough higher than the suction flow
- De-pressurization valve, to reduce the pressure inside the filter during the maintenance operations
- Visual, electrical and electronic differential clogging indicators

Common applications:
Mobile machines with hydrostatic systems on board.
(i.e. skid steer loaders, telehandlers, dumpers, road sweepers)

Technical data

Filter housing materials
- Head: Aluminium
- Housing: Cataphoresis - Painted steel
- Bypass valve: Brass - Aluminium

Pressure
- Test pressure: 12MPa (120 bar)
- Burst pressure: 38 MPa (380 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 80 bar (8 MPa)

Bypass valve
- Opening pressure 250 kPa (2.5 bar) ±10%
- Other opening pressures on request.

Δp element type
- Microfibre filter elements - series N - W: 20 bar
- Fluid flow 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
LMP124 filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

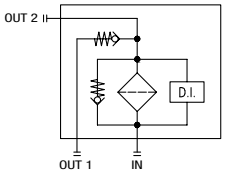
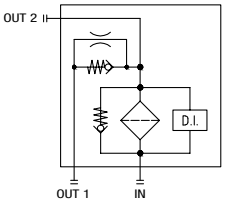
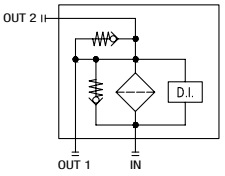
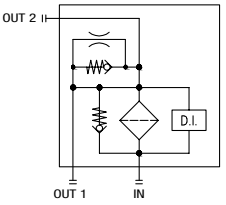
Filter series	Weights [kg]					Volumes [dm³]				
	Length	1	2	3	4	Length	1	2	3	4
LMP 124		1.70	1.90	2.20	2.70		0.75	0.81	1.11	1.53

Flow rates [l/min]

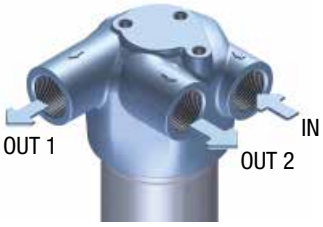
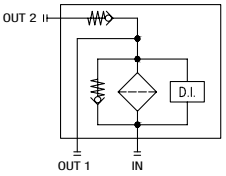
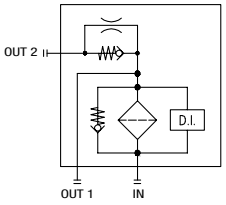
Filter series	Length	Filter element design - N series							
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
LMP 124	1	39	41	58	60	69	99	84	85
	2	47	53	68	69	77	99	90	91
	3	59	61	73	77	86	99	92	93
	4	70	78	84	86	93	100	94	95

Maximum flow rate for a complete return/suction filter with a pressure drop Δp = 1.2 bar.
The reference fluid has a kinematic viscosity of 30 mm^2/s (cSt) and a density of 0.86 kg/dm^3.

Hydraulic symbols - Valves option

Multiport	Valves C option	Valves D option	Valves E option	Valves F option
				

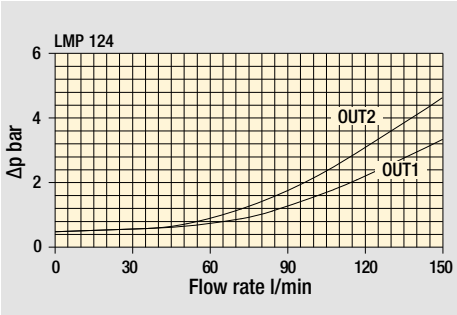
IN - Return
OUT 1 - Tank
OUT 2 - Pump

Multiport	Valves G option	Valves H option
		

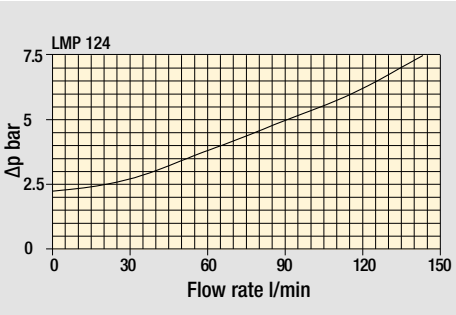
IN - Return
OUT 1 - Pump
OUT 2 - Tank

Pressure drop

Filter housings Δp pressure drop



Bypass valve pressure drop



OUT 1: Valves option G/H
OUT 2: Valves option C/D/E/F

Designation & Ordering code

COMPLETE FILTER

Configuration example: LMP124 | 4 | C | A | F | 1 | A10 | N | P01

Series and size
LMP124

Filter length
1 | **2** | **3** | **4**

Hydraulic diagram configuration - see page 289
C | **D** | **E** | **F** | **G** | **H**

Seals and treatments
A NBR
V FPM

Connections
B G 1”
F SAE 16 - 1 5/16” - 12 UN

Connection for indicator
1 Without
2 With connection G 1/8” for clogging indicator
3 With connection G 1/4” for clogging indicator
4 With connection for differential pressure indicator

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
N 20 bar

Execution
P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Configuration example: CU110 | 4 | A10 | A | N | P01

Element series and size
CU110

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

Element Δp
N 20 bar

Execution
P01 MP Filtri standard
Pxx Customized

CLOGGING INDICATORS

See page 722-723

Indicators on Return Line

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

Differential pressure indicators

DEA	Electrical differential pressure indicator	**DLE**	Electrical / visual differential pressure indicator
DEM	Electrical differential pressure indicator	**DTA**	Electronic differential pressure indicator
DEU	Electrical differential pressure indicator	**DVA**	Visual differential pressure indicator
DLA	Electrical / visual differential pressure indicator	**DVM**	Visual differential pressure indicator

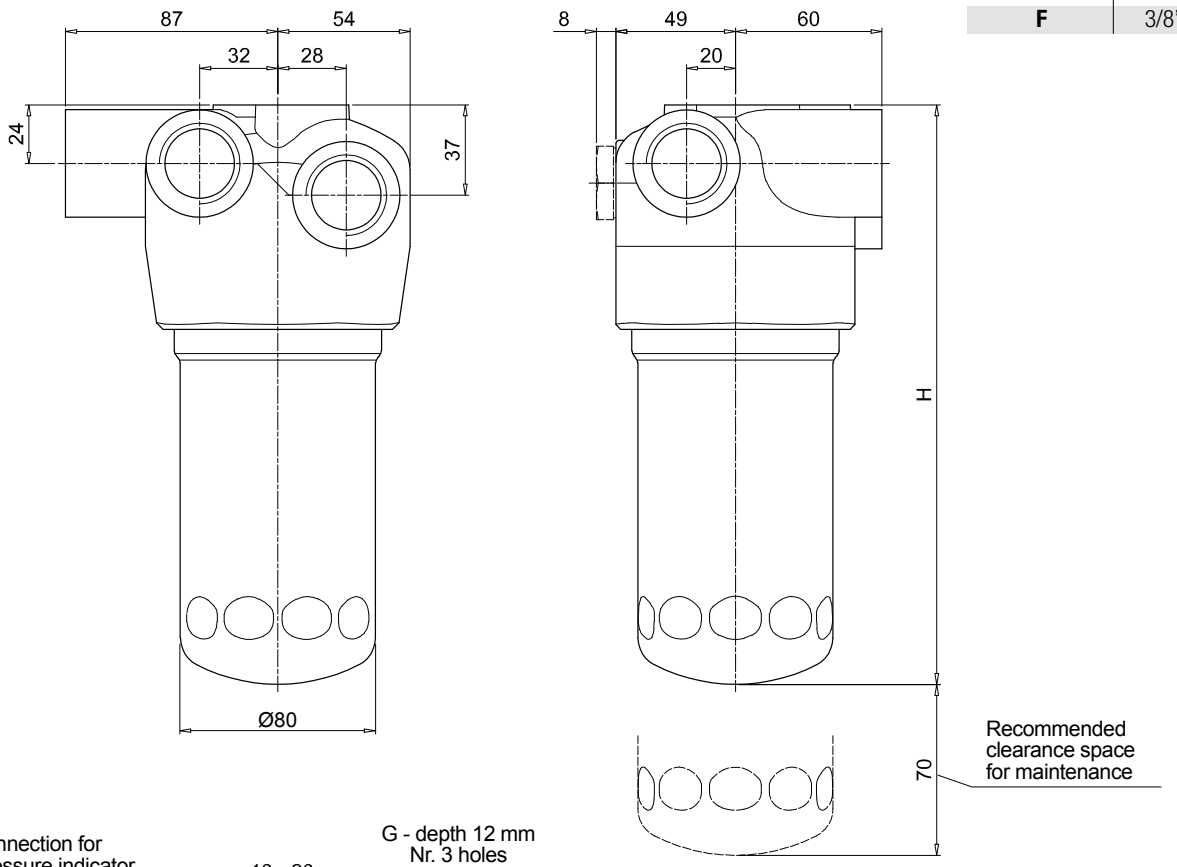
PLUGS

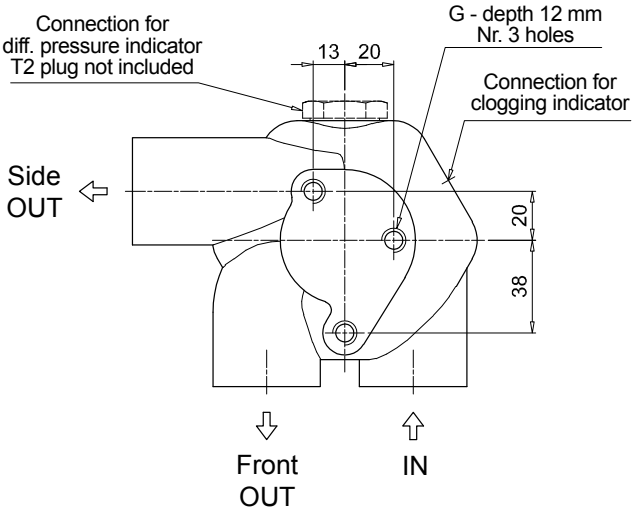
See page 747

T2 Plug (not included)

LMP 124	
MULTIPORT	
Filter length	**H [mm]**
1	182
2	215
3	265
4	365

Connections	**R**
B	M10
F	3/8" UNC

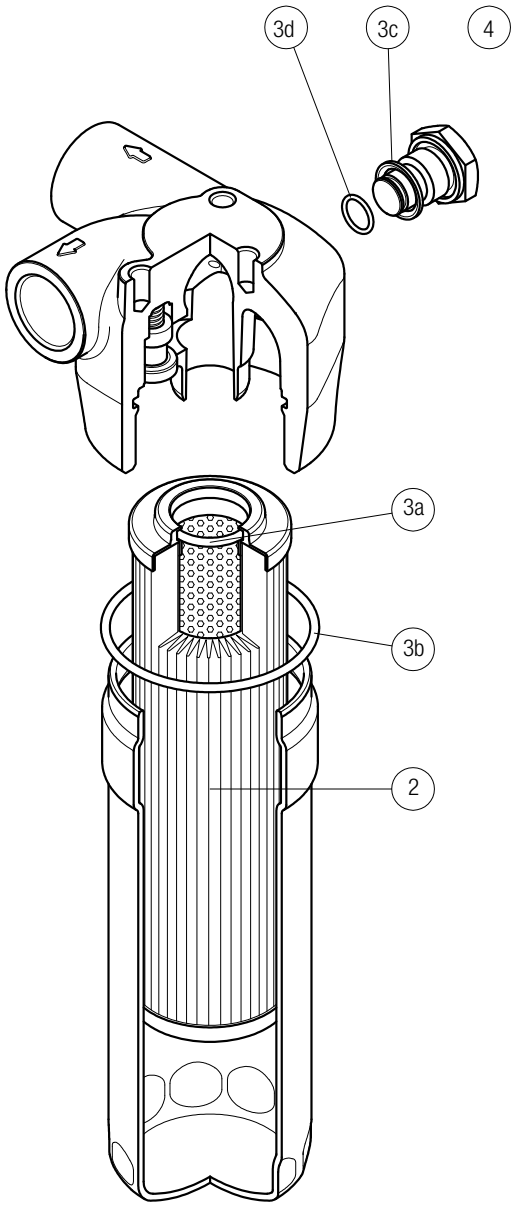




LMP 124 SPARE PARTS
MULTIPORT

Order number for spare parts

LMP 124 MULTIPORT



Item:	Q.ty: 1 pc. (2)	Q.ty: 1 pc. (3) (3a ÷ 3d)		Q.ty: 1 pc. (4)	
Filter series	**Filter element**	**Seal Kit code number NBR**	**FPM**	**Indicator connection plug NBR**	**FPM**
LMP 124 MULTIPORT	See order table	02050478	02050479	T2H	T2V

Designation & Ordering code

VACUUM INDICATORS

Configuration example 1:	VE	A	21	V	A	50	P01	EX
Configuration example 2:	VL	B	21	A	A	71	P01	
Configuration example 3:	VV	R	20				P01	

Series

VE Electrical vacuum indicator
VL Electrical/Visual vacuum indicator
VV Vacuum gauge

Type VE - VL

A Connection EN 10226 - R1/4”
B Connection EN 10226 - R1/8”

Type VV

A Axial connection EN 10226 - R1/4”
B Axial connection EN 10226 - R1/8”
R Radial connection EN 10226 - R1/4”
S Radial connection EN 10226 - R1/8”

Vacuum setting	VE	VL	VV
20 -0.16 bar	-	-	•
21 -0.21 bar	•	•	-

Seals	VEA - VLA	VEB - VLB
A NBR	•	•
V FPM	•	-

Thermostat	VE	VL
A Without thermostat	•	•

Electrical connections	VE	VL
50 Connection EN 175301-803	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	•
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	•
53 Connection EN 175301-803, transparent base with lamps 230 Vac	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	•

Option

P01 MP Filtri standard
Pxx Customized

Certifications	VEA21A	VEA21V	VEB	VL	VV
Without	•	•	•	•	•
EX ATEX certification	•	•	•	-	-
UL UL certification	•	-	-	-	-

BAROMETRIC (PRESSURE) INDICATORS

Configuration example 1:	BE	M	15	H	A	41	P01	EX
Configuration example 2:	BL	A	20	H	A	71	P01	
Configuration example 3:	BV	R	14				P01	
Configuration example 4:	BV	P	20	H			P01	

Series

BE Electrical pressure indicator
BL Electrical/Visual pressure indicator
BV Visual pressure indicator

Type	BE	BL
A Standard type	•	•
M With wired electrical connection	•	-
T With thermal switch	•	-

BV

A Axial connection pressure gauge
R Radial connection pressure gauge
P Visual indicator with automatic reset
Q Visual indicator with manual reset

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ
14 1.4 bar	-	-	-	•	-
15 1.5 bar	•	-	•	-	-
20 2.0 bar	•	•	•	-	•
25 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVP-BVQ
H HNBR	•	•	•

Thermostat	BEA-BEM	BET	BLA
A Without thermostat	•	-	•
F With thermostat	-	•	-

Electrical connections	BEA	BEM	BET	BL
10 Connection AMP Superseal series 1.5	-	-	•	-
30 Connection Deutsch DT-04-2-P	-	-	•	-
41 Connection via four-core cable	-	•	-	-
50 Connection EN 175301-803	•	-	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•
53 Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•

Option

P01 MP Filtri standard
Pxx Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
EX ATEX certification	•	-	-	-
UL UL certification	•	-	-	-

DIFFERENTIAL PRESSURE INDICATORS

Configuration example 1:	DE	M	12	H	F	50	P01	
Configuration example 2:	DE	U	50	V	A	50	P01	UL
Configuration example 3:	DL	E	20	V	A	71	P01	
Configuration example 4:	DT	A	50	H	F	70	P01	
Configuration example 5:	DV	M	70	V			P01	

Series

DE Electrical differential pressure indicator
DL Electrical/Visual differential pressure indicator
DT Electronic differential pressure indicator
DV Visual differential pressure indicator

Type	DE	DL	DT	DV
A Standard type	•	•	•	**A** With automatic reset
M With wired electrical connection	•	-	-	**M** With manual reset
U Standard type 210 bar, UL certified	•	-	-	
E For high power supply	-	•	-	

Pressure setting	DEA	DEM	DEU	DLA	DLE	DTA	DVA	DVM
20 2.0 bar	•	•	•	•	•	•	•	•

Seals	DEA	DEM	DEU	DLA	DLE	DTA	DVA	DVM
H HNBR	•	•	-	•	•	•	•	•
V FPM	•	•	•	•	•	•	•	•

Thermostat	DEA	DEM	DEU	DLA	DLE	DT
A Without thermostat	•	•	•	•	•	-
F With thermostat	-	•	-	-	•	•

Electrical connections	DEA	DEM	DEU	DLA	DLE	DT
10 Connection AMP Superseal series 1.5	-	•	-	-	-	-
20 Connection AMP Timer Junior	-	•	-	-	-	-
30 Connection Deutsch DT-04-2-P	-	•	-	-	-	-
35 Connection Deutsch DT-04-3-P	-	•	-	-	-	-
50 Connection EN 175301-803	•	-	•	-	•	-
51 Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•	-	-
52 Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•	-	-
70 Connection IEC 61076-2-101 D (M12)	-	-	-	-	-	•
71 Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•	-	-

Option

P01 MP Filtri standard
Pxx Customized

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

PLUGS

Configuration example	T2	H

Series

T2 Plug

Seals

H HNBR
V FPM

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
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