

MST

Maximum pressure 12 bar
Flow rates to 195 l/min



Technical data

Filter housing (Materials)

- Head: Aluminium
- Bypass valve: Nylon - Steel
- Element: Zinc-Plated Steel, Painted Steel

Pressure

- Working pressure: 12 bar (1,2 MPa)

Temperature

- From -20°C to +110°C

Bypass valve

- Opening pressure: 1,75 bar ±10%

Δp Elements type

- Δp: 5 bar
- Oil flow from OUT to IN.

Seals

- Standard NBR series A
- Optional FPM series V

MST FILTERS ARE PROVIDED FOR VERTICAL MOUNTING

Weights (kg)

- MST050 1,2
- MST070 1,4
- MST100 2,5
- MST150 2,7

Volumes (dm³)

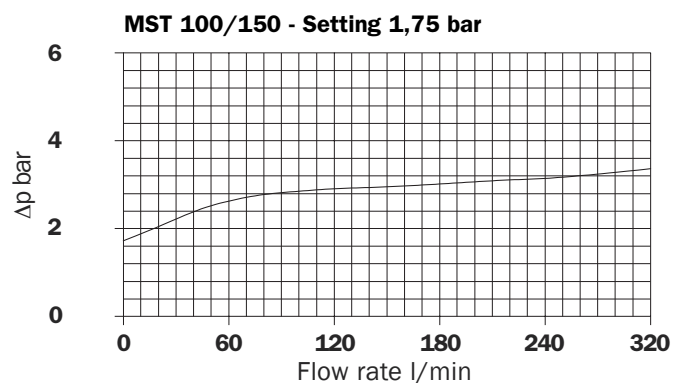
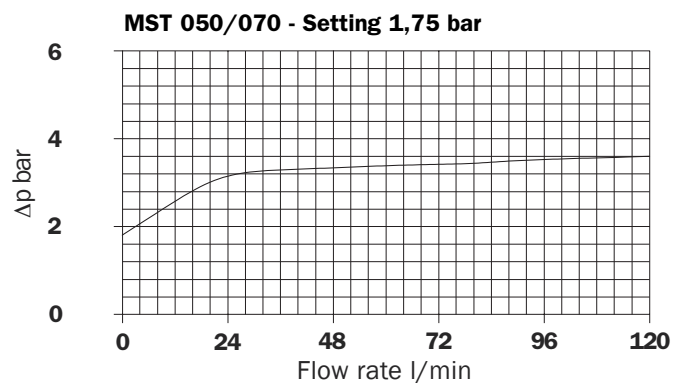
- MST050 0,8
- MST070 1,1
- MST100 1,7
- MST150 2,0

Filter housings Δp pressure drop

The curves are plotted utilising mineral oil with density of 0,86 kg/dm³ to ISO 3968.

Δp varies proportionally with density.

Valves: Bypass valve pressure drop



Filter sizing

In-Line/Return Filter

The following filter sizing recommendations are based using a mineral oil fluid at 30/46/68 mm²/s (cSt) with a maximum total filter assembly (housing and filter element) of **50 kPa (0,5 bar)**.

MST 050

	mm ² /s (cSt)		
	32	46	68
A03	50	40	31
A06	51	42	32
A10	62	54	45
A25	70	65	58
P10	64	58	49
P25	72	68	60
M25	80	78	75

Flow rate l/min

MST 070

	mm ² /s (cSt)		
	32	46	68
A03	53	44	34
A06	61	53	43
A10	64	57	48
A25	75	72	66
P10	71	66	59
P25	77	74	69
M25	80	78	77

Flow rate l/min

MST 100

	mm ² /s (cSt)		
	32	46	68
A03	83	63	45
A06	105	85	64
A10	128	107	84
A25	168	154	132
P10	160	142	119
P25	175	165	145
M25	190	180	170

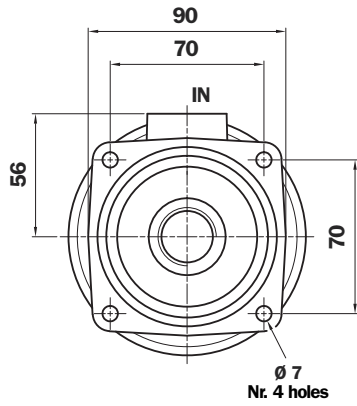
Flow rate l/min

MST 150

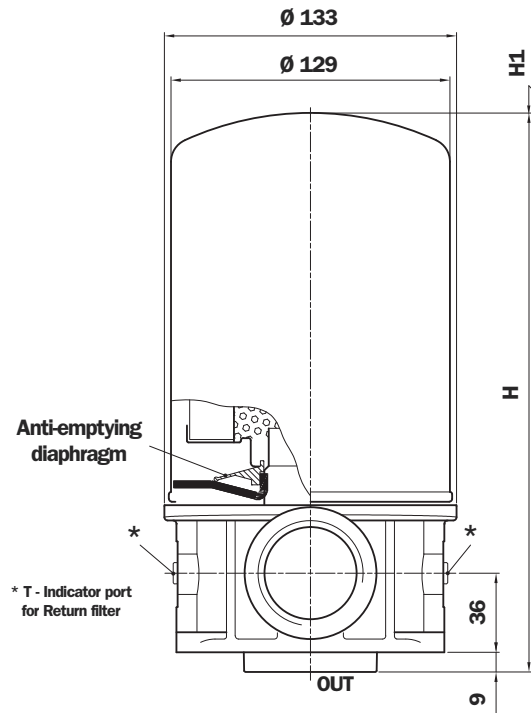
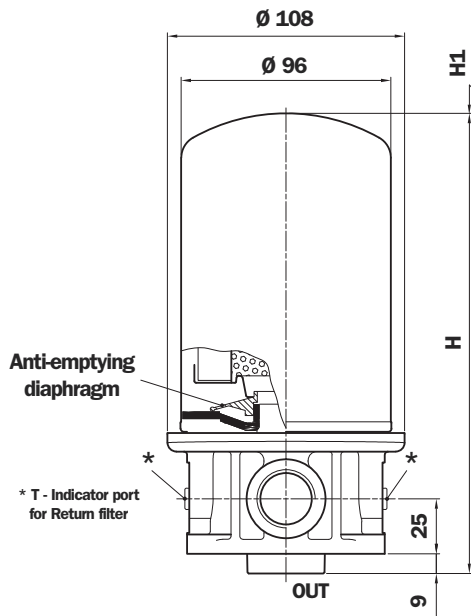
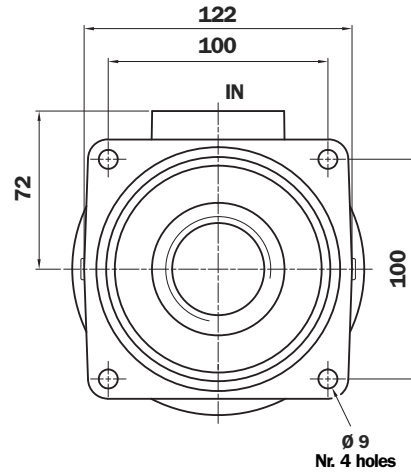
	mm ² /s (cSt)		
	32	46	68
A03	120	100	75
A06	128	110	84
A10	144	126	100
A25	174	164	145
P10	164	149	125
P25	182	172	160
M25	195	190	180

Flow rate l/min

MST 050 - 070



MST 100 - 150



MST 050 - 070 - 100 - 150

Length Filter	H mm	H1 mm
050	210	40
070	272	40
100	260	50
150	306	50

MST 050/070 - Thread connections

Type	Size	T
G1	G 3/4"	G 1/8"
G2	3/4" NPT	1/8" NPT
G3	SAE 12 - 1 1/16" - 12 UN	1/8" NPT

MST 100/150 - Thread connections

Type	Size	T
G1	G 1 1/2"	G 1/8"
G2	1 1/2" NPT	1/8" NPT
G3	SAE 24 - 1 7/8" - 12 UN	1/8" NPT

Ordering information MST

Filter assembly MST

	2	3	4	5	6	7
Example 1: MST	050	A	G3	P25	B	P01
Example 2: MST	150	A	G1	M60	B	P01

Filter element CT

	1	2	5	3	6	7
Example 1:	CT	050	P25	A	B	P01
Example 2:	CT	150	M60	A	B	P01

1 - Filter element

CT Filter element European std.

2 - Style

050
070
100
150

3 - Filter seals

A NBR

4 - Connections

Threaded

MST

050 - 070

Type	Size
G1	G 3/4"
G2	3/4" NPT
G3	SAE 12 - 1 1/16" - 12 UN

MST

100 - 150

Type	Size
G1	G 1 1/2"
G2	1 1/2" NPT
G3	SAE 24 - 1 7/8" - 12 UN

5 - Filter element

A03	Inorganic microfibre	3 µm	Absolute filtration Inorganic Microfibre βx (c) ≥ 1000
A06	Inorganic microfibre	6 µm	
A10	Inorganic microfibre	10 µm	
A25	Inorganic microfibre	25 µm	
M25	Wire mesh	25 µm	Nominal Filtration
M60	Wire mesh	60 µm	
M90	Wire mesh	90 µm	
P10	Resin - Impregnated paper		Nominal Filtration
P25	Resin - Impregnated paper		

6 - Valves

B With bypass 1,75 bar ±10%

7 - Option

P01 MP Filtri standard

For Clogging Indicator:
See page 318

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