

STR MPA-MPM

SUCTION FILTER



MPFILTRI
filtri per oleodinamica



Flow rates to 240 gpm

STR

These strainers are suitable for use in the suction line, submerged in the reservoir. They are available for nominal flows up to 240 gpm (with oil at 150 SUS). These filters are particularly suitable for applications where it is necessary to protect pumps from coarse particles of contamination.

STR series are available with or without a bypass valve.

MPA-MPM series are equipped with safety tie rod.

MPM series are supplied with an internal magnet column.

MPA - MPM



Filter element:

Materials

STR series

Connection and End cap: Support tube:

Nylon

Galvanized Steel

Bypass valve:

Nylon

MPA-MPM series

Connection:

Aluminium

End cap:

Galvanized Steel

Support tube:

Galvanized Steel

Nut and tie rod:

Galvanized Steel

Element material Nominal filtration

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

STR series

Type STR	050-1-2	070-1-2	070-3-4	100-1-5	100-2-3-4	140-1-2	140-3-4	140-5	140-6
M 60	45	75	115	165	290	310	550	565	650
M 90	45	75	115	165	290	310	550	565	650
M250	45	75	115	165	290	310	550	565	650

Values in IN²

MPA-MPM series

Type MPA MPM	012-015	025-030	045-50	075-095	120-150	180-220	280-300	380-430
M 60	45	75	120	155	285	300	535	660
M 90	45	75	120	155	285	300	535	660
M250	45	75	120	155	285	300	535	660

Values in IN²

Working

Temperature

STR series

From -13°F to + 230°F

MPA-MPM series

From -40°F to + 248°F

For temperature outside this range, please consult our Sales Network Organization

Bypass valve

Setting pressure

Bypass valve, differential opening pressure: (STR series only)

B: 4.5Psi ± 10%

Compatibility with fluids

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

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

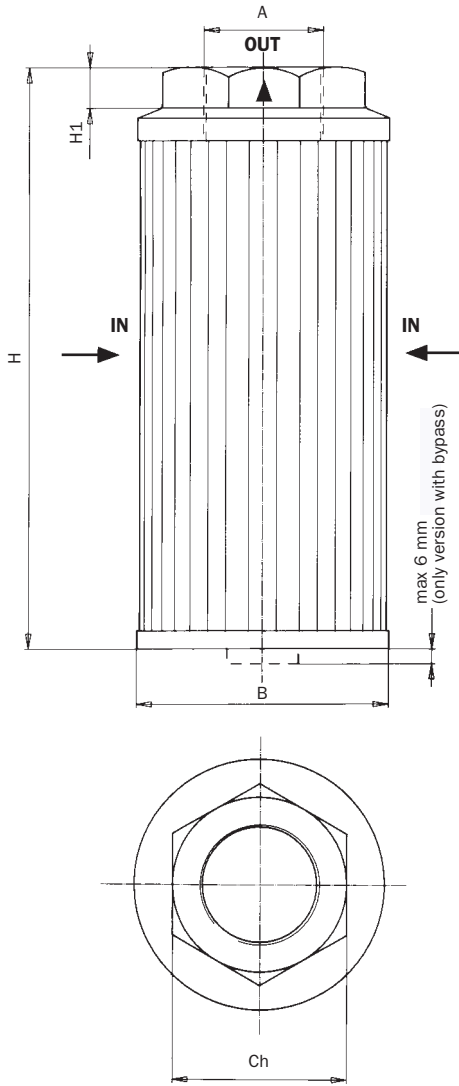
Selection & installation information

Filter element types

M series

Metal mesh media, available in 60,90 or 250 μm
 Example - **M60, M90 or M250**

The following filter setting recommendations are based using a mineral oil fluid at 150 SUS with a maximum total filter pressure drop of **1.15 Psi (0,08 bar)**.

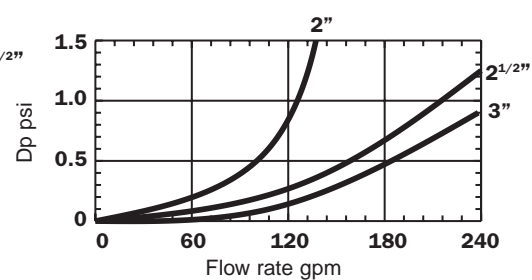
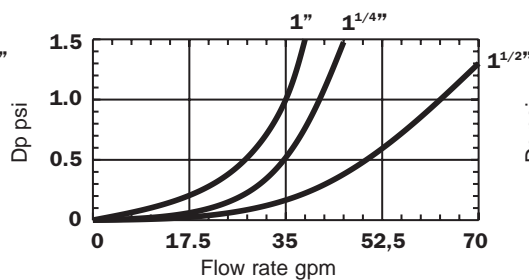
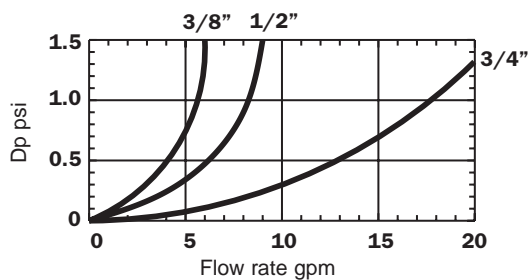


STR

STR SERIES

Type	A	B	H	H1	Ch	Weight Max (lbs)
050-1 G1	3/8" BSP					
050-1 G2	3/8" NPT					
050-2 G1	1/2" BSP	2.0	3.0	.4	1.18	.35
050-2 G2	1/2" NPT					
070-1 G1	1/2" BSP		3.75			
070-1 G2	1/2" NPT					.48
070-2 G1	3/4" BSP					
070-2 G2	3/4" NPT	2.75		.4	1.65	
070-3 G1	3/4" BSP					
070-3 G2	3/4" NPT		5.50			.66
070-4 G1	1" BSP					
070-4 G2	1" NPT					
100-1 G1	1 1/4" BSP		5.3			1.03
100-1 G2	1 1/4" NPT					
100-2 G1	1 1/4" BSP					
100-2 G2	1 1/4" NPT					
100-3 G1	1 1/2" BSP	3.9	8.86	.6	2.72	
100-3 G2	1 1/2" NPT					1.5
100-4 G1	2" BSP					
100-4 G2	2" NPT					
100-5 G1	1 1/2" BSP					
100-5 G2	1 1/2" NPT		5.3			1.03
140-1 G1	1 1/2" BSP					
140-1 G2	1 1/2" NPT					
140-2 G1	2" BSP		6.3	.6	2.75	1.85
140-2 G2	2" NPT					
140-3 G1	2" BSP					
140-3 G2	2" NPT	5.1	10.3			
140-4 G1	2 1/2" BSP					
140-4 G2	2 1/2" NPT		10.63			2.75
140-5 G1	3" BSP			.78	3.98	
140-5 G2	3" NPT					
140-6 G1	3" BSP					
140-6 G2	3" NPT		13.0			2.86

Filter element pressure drop



Ordering code example

STR

050-1

B

G1

M60

Example order

Series	
STR	Strainer

Micron rating	
M 60	
M 90	Wire mesh
M 250	

Nominal sizes	
050-1	3/8" - H78
050-2	1/2" - H78
070-1	1/2" - H95
070-2	3/4" - H95
070-3	3/4" - H140
070-4	1" - H140
100-1	1 1/4" - H135
100-2	1 1/4" - H225
100-3	1 1/2" - H225
100-4	2" - H225
100-5	1 1/2" - H135
140-1	1 1/2" - H160
140-2	2" - H160
140-3	2" - H262
140-4	2 1/2" - H270
140-5	3" - H270
140-6	3" - H330

Connections	
G1	BSP Thread
G2	NPT Thread

Bypass valve	
S	Without bypass
B	With bypass

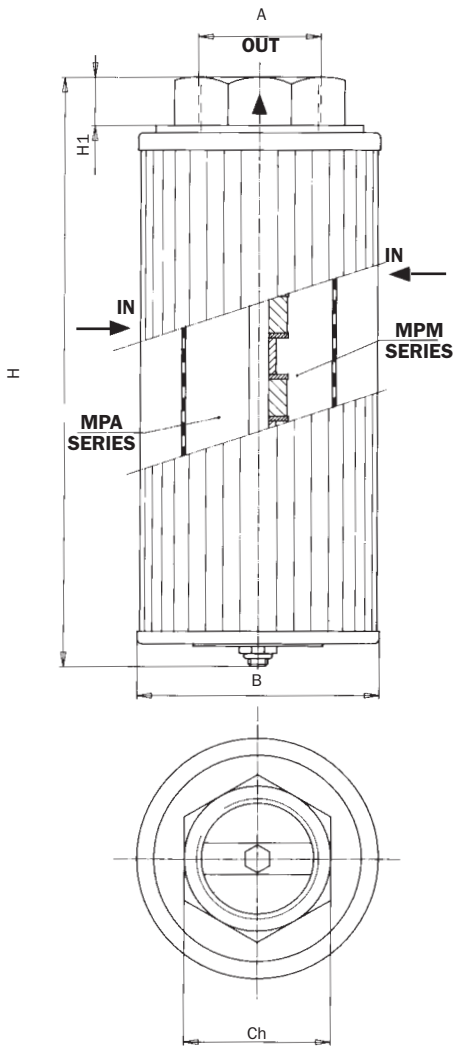
Selection & installation information

Filter element types

M series

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 Example - **M60, M90 or M250**

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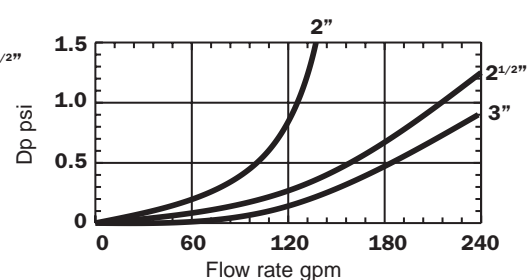
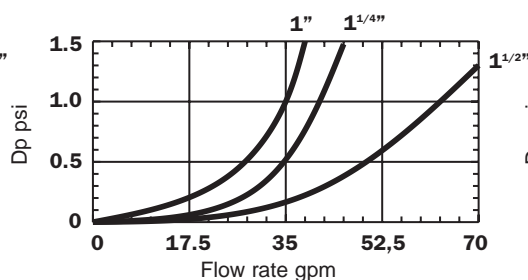
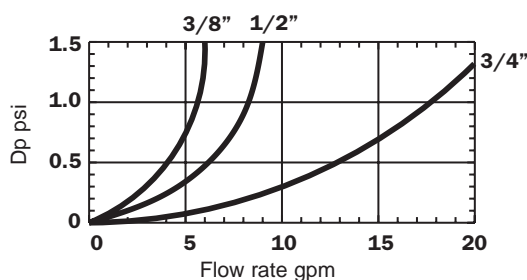


**MPA
MPM**

MPA - MPM SERIES

Type	A	B	H	H1	Ch	Weight Max (Lbs)
012 G1	3/8" BSP	1.96	3.75	.59	1.1	.37
012 G2	3/8" NPT					
015 G1	1/2" BSP	1.96	3.75	.59	1.1	.37
015 G2	1/2" NPT					
025 G1	1/2" BSP	2.75	4.33	.59	1.1	.59
025 G2	1/2" NPT					
030 G1	3/4" BSP	2.75	4.39	.67	1.65	.80
030 G2	3/4" NPT					
045 G1	3/4" BSP	2.75	6.16	.67	1.65	.86
045 G2	3/4" NPT					
050 G1	1" BSP	2.75	6.16	.67	1.65	.77
050 G2	1" NPT					
075 G1	1" BSP	3.9	5.75	.67	1.65	1.19
075 G2	1" NPT					
095 G1	1 1/4" BSP	3.9	5.75	.83	2.36	1.38
095 G2	1 1/4" NPT					
120 G1	1 1/4" BSP	3.9	9.33	.83	2.36	2.09
120 G2	1 1/4" NPT					
150 G1	1 1/2" BSP	3.9	9.33	.83	2.36	2.0
150 G2	1 1/2" NPT					
180 G1	1 1/2" BSP	5.35	6.77	.83	2.36	2.15
180 G2	1 1/2" NPT					
220 G1	2" BSP	5.35	6.29	.51	3.15	2.2
220 G2	2" NPT					
280 G1	2" BSP	5.35	10.63	.51	3.15	3.52
280 G2	2" NPT					
300 G1	2 1/2" BSP	5.35	10.98	.83	3.54	2.35
300 G2	2 1/2" NPT					
380 G1	2" BSP	5.35	12.6	.51	3.15	3.52
380 G2	2" NPT					
430 G1	3" BSP	5.35	13.1	.87	4.17	4.25
430 G2	3" NPT					

Filter element pressure drop



Ordering code example

MPA

050

G1

M60

Example order

Series

MPA	Complete strainer without int. magnet
MPM	Complete strainer with int. magnet

Micron rating

M 60	
M 90	Wire mesh
M 250	

Nominal sizes

012	3/8"
015	1/2"
025	1/2"
030	3/4"
045	3/4"
050	1"
075	1"
095	1 1/4"
120	1 1/4"
150	1 1/2"
180	1 1/2"
220	2"
280	2"
300	2 1/2"
380	2"
430	3"

Connections

G1	BSP Thread
G2	NPT Thread

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

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