

# STR MPA-MPM

**S**UCTION FILTER



**MPFILTRI**<sup>®</sup>  
filtri per oleodinamica



Flow rates to 900 l/min

# STR

These strainers are suitable for use in the suction line, submerged in the reservoir.

They are available for nominal flows up to 900 l/min (with oil at 30 mm<sup>2</sup>/s).

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

MPA-MPM series

**Connection and End cap:** Support tube:

Nylon

Galvanized Steel

**Bypass valve:**

Nylon

**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	290	470	720	1046	1850	2000	3550	3620	4160
M 90	290	470	720	1046	1850	2000	3550	3620	4160
M250	290	470	720	1046	1850	2000	3550	3620	4160

Values in cm<sup>2</sup>

MPA-MPM series

Type MPA MPM	012-015	025-030	045-50	075-095	120-150	180-220	280-300	380-430
M 60	280	480	770	1000	1820	1920	3450	4250
M 90	280	480	770	1000	1820	1920	3450	4250
M250	280	480	770	1000	1820	1920	3450	4250

Values in cm<sup>2</sup>

### Working

#### Temperature

**STR series**

From -25°C to + 110°C

**MPA-MPM series**

From -40°C to + 120°C

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

#### Bypass valve

#### Setting pressure

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

**B: 30 kPa ± 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

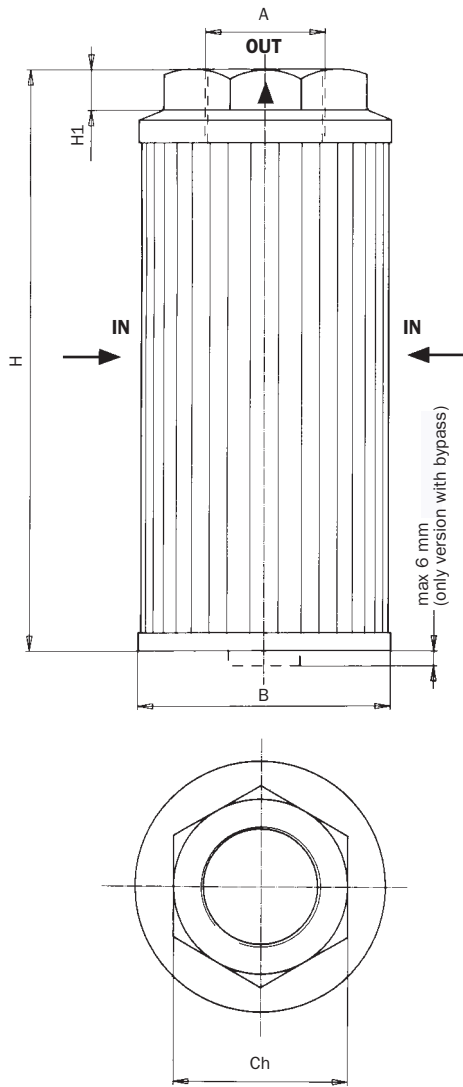
## Filter element types

### M series

Metal mesh media, available in 60,90 or 250  $\mu\text{m}$   
 Example - **M60, M90 or M250**

1 bar = 100 kPa

The following filter setting recommendations are based using a mineral oil fluid at 30  $\text{mm}^2/\text{s}$  (cSt) with a maximum total filter pressure drop of **8 kPa (0,08 bar)**.

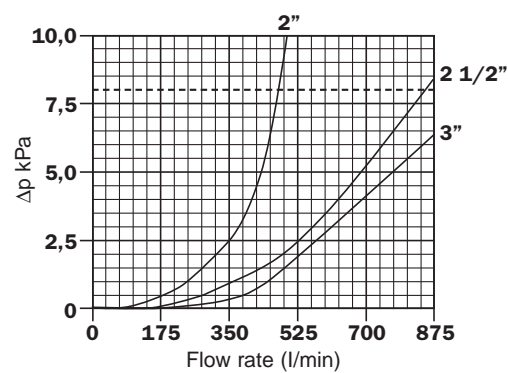
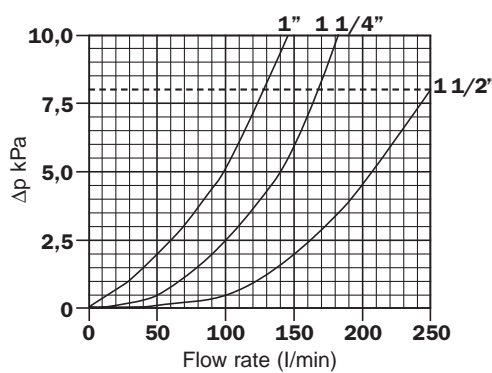
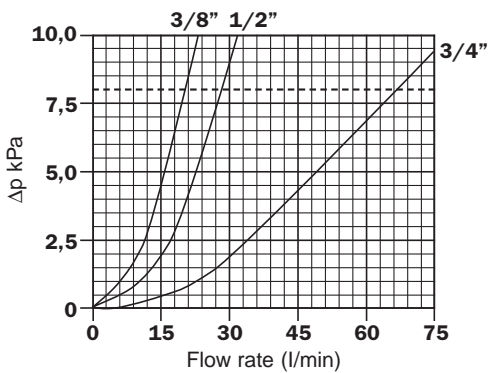


**STR**

## STR SERIES

Type	A	B	H	H1	Ch	Weight Max (kg)
050-1 G1	3/8" BSP					
050-1 G2	3/8" NPT					
050-2 G1	1/2" BSP	52	78	10	30	0,16
050-2 G2	1/2" NPT					
070-1 G1	1/2" BSP		95			
070-1 G2	1/2" NPT					0,22
070-2 G1	3/4" BSP					
070-2 G2	3/4" NPT	70		10	42	
070-3 G1	3/4" BSP					
070-3 G2	3/4" NPT		140			0,30
070-4 G1	1" BSP					
070-4 G2	1" NPT					
100-1 G1	1 1/4" BSP		135			0,47
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	99	225	15	69	
100-3 G2	1 1/2" NPT					0,68
100-4 G1	2" BSP					
100-4 G2	2" NPT					
100-5 G1	1 1/2" BSP					
100-5 G2	1 1/2" NPT		135			0,47
140-1 G1	1 1/2" BSP					
140-1 G2	1 1/2" NPT					
140-2 G1	2" BSP		160	15	70	0,84
140-2 G2	2" NPT					
140-3 G1	2" BSP	130	262			
140-3 G2	2" NPT					
140-4 G1	2 1/2" BSP					
140-4 G2	2 1/2" NPT		270			1,25
140-5 G1	3" BSP			20	101	
140-5 G2	3" NPT					
140-6 G1	3" BSP					
140-6 G2	3" NPT		330			1,30

## Filter element pressure drop



# Ordering code example

**STR**

**050-1**

**B**

**G1**

**M60**

Example order

## Series

STR	Strainer
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## 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

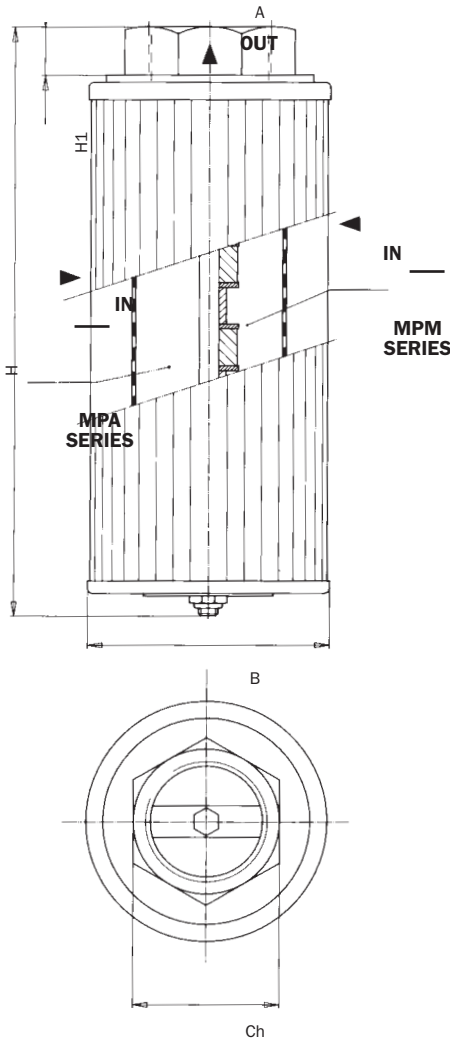
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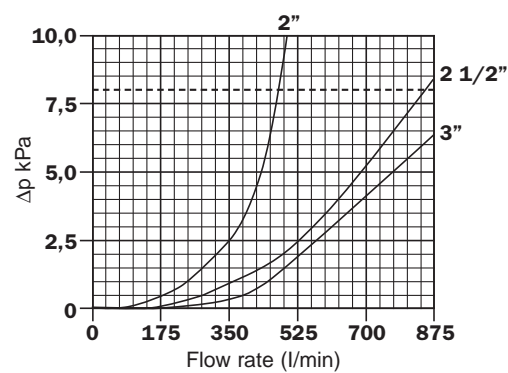
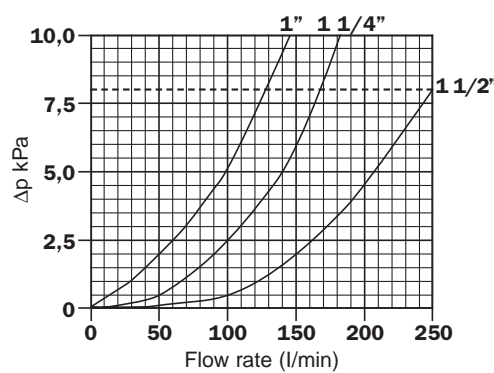
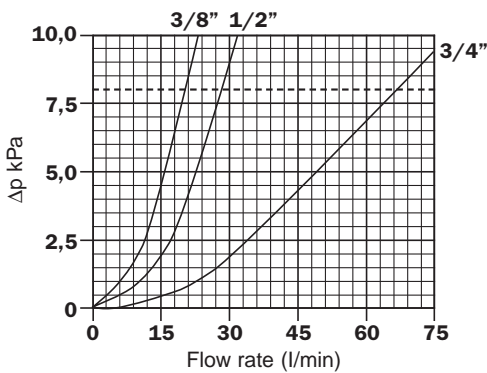


**MPA  
MPM**

## MPA - MPM SERIES

Type	A	B	H	H1	Ch	Weight Max (kg)
012 G1	3/8" BSP	50	95	15	28	0,17
012 G2	3/8" NPT					
015 G1	1/2" BSP	50	95	15	28	0,17
015 G2	1/2" NPT					
025 G1	1/2" BSP	70	110	15	28	0,27
025 G2	1/2" NPT					
030 G1	3/4" BSP	70	111,5	17	42	0,36
030 G2	3/4" NPT					
045 G1	3/4" BSP	70	156,5	17	42	0,39
045 G2	3/4" NPT					
050 G1	1" BSP	70	156,5	17	42	0,35
050 G2	1" NPT					
075 G1	1" BSP	99	146,5	17	42	0,54
075 G2	1" NPT					
095 G1	1 1/4" BSP	99	147	21	60	0,63
095 G2	1 1/4" NPT					
120 G1	1 1/4" BSP	99	237	21	60	0,95
120 G2	1 1/4" NPT					
150 G1	1 1/2" BSP	99	237	21	60	0,91
150 G2	1 1/2" NPT					
180 G1	1 1/2" BSP	136	172	21	60	0,98
180 G2	1 1/2" NPT					
220 G1	2" BSP	136	160	13	80	1,00
220 G2	2" NPT					
280 G1	2" BSP	136	270	13	80	1,60
280 G2	2" NPT					
300 G1	2 1/2" BSP	136	279	21	90	1,67
300 G2	2 1/2" NPT					
380 G1	2" BSP	136	320	13	80	1,60
380 G2	2" NPT					
430 G1	3" BSP	136	333	22	106	1,93
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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