

STRC & MPAC series

Flow rate up to 1000 l/min



Description

Technical data

Suction filters

Flow rate up to 1000 l/min

STRC

STRC is a range of suction strainers for protection of the downstream pump against the coarse contamination. They are placed below the oil level directly connected to the suction line of the pump.

Available features:

- Female threaded connections up to 3", for a maximum flow rate of 1000 l/min
- Bypass valve, to relieve excessive pressure drop across the filter media

Common application:

- Mobile machines (Construction and Agriculture machines)
- Industrial equipment

MPAC

MPAC is a range of suction strainers for protection of the downstream pump against the coarse contamination. They are placed below the minimum oil level, directly connected to the suction line of the pump. The robust design allows the use of these filters in any heavy duty application.

Available features:

- Female threaded connections up to 3", for a maximum flow rate of 1000 l/min
- Magnetic filter (MPAC), to hold the ferrous particles

Common application:

Industrial equipment

STRC materials

- 1 - Connection: Polyamide, GF reinforced
- 2 - Core tube: Tinned steel
- 3 - Wire mesh
- 4 - End cap: Polyamide, GF reinforced
- 5 - Bypass valve: Polyamide, GF reinforced - Steel

MPAC materials

- 1 - Connection: Aluminium
- 2 - Magnetic filter
- 3 - Tie rod: Galvanized steel
- 4 - End cap: Galvanized steel
- 5 - Core tube: Galvanized steel
- 6 - Filter media: Wire mesh
- 7 - Bottom: Galvanized steel
- 8 - Washer: Galvanized steel
- 9 - Self-locking nut: Galvanized steel - Polyamide

Bypass valve

Opening pressure 0.03 MPa (0.3 bar)

Filter element features

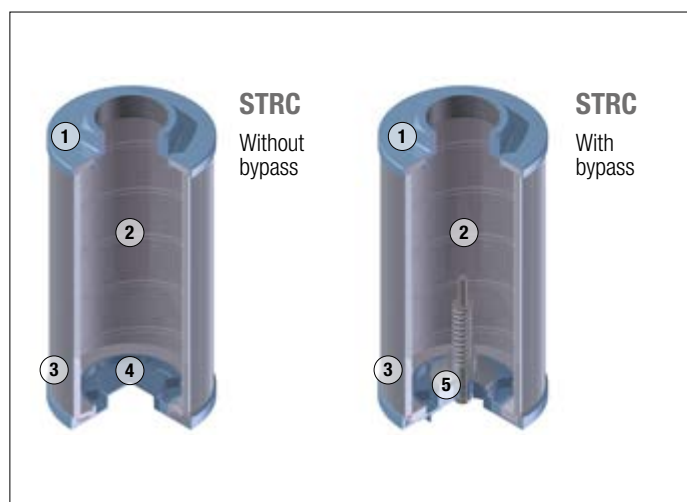
Filter STRC- MPAC		Filter element n.a.	
Δp Element type			
Element media	Construction	Δp Series	Δp
M - Wire mesh	Standard	A	1 bar
Please see ordering code tables to check element Δp series availability based on filter features.			
Flow direction through the filter element: From OUT to IN			

Temperature

From -25 °C to +110 °C

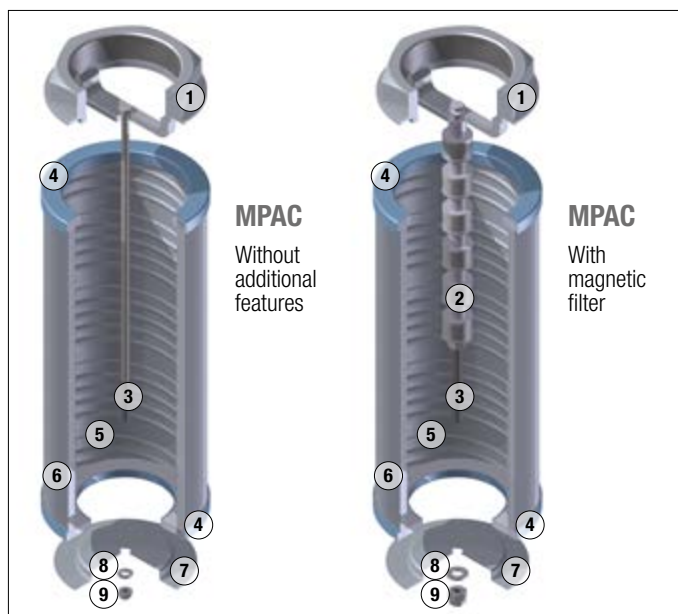
Quantity

Series and size	pcs/pack
STRC 045 - 050	12
STRC 065 - 070 - 086 - 100	6
STRC 140 - 150	1
MPAC 050	12
MPAC 070 - 100	6
MPAC 140	1



Weights [kg]

Filter series	
STRC	see page 31
MPAC	see page 33



Flow rates [l/min]

Filter series	Thread	l/min
STRC & MPAC	3/8"	19
	1/2"	28
	3/4"	67
	1"	126
	1 1/4"	167
	1 1/2"	258
	2"	480
	2 1/2"	854
	3"	995

Maximum flow rate for a complete suction filter with a pressure drop $\Delta p = 0.08$ bar.

The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Filter series	00 - without bypass	03 - with bypass 0.3 bar
STRC	•	•
MPAC	•	-

OUT

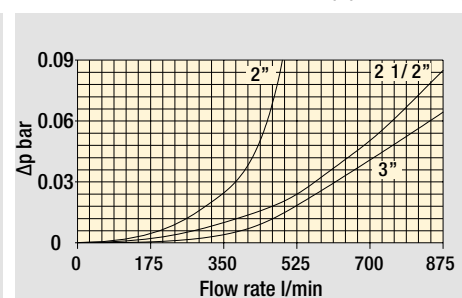
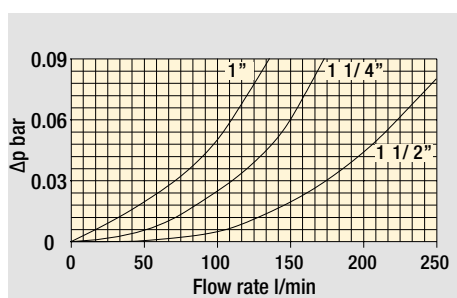
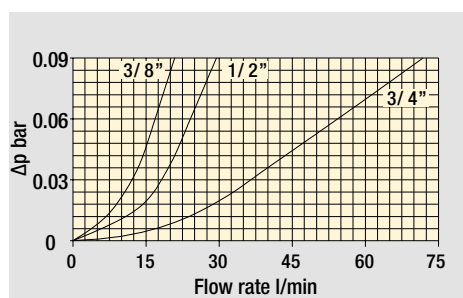
IN

OUT

IN

Hydraulic diagram

Pressure drop

Filter housings
 Δp pressure drop

The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968.

Δp varies proportionally with density.

COMPLETE FILTER

Series	Example 1:	STRC	045	10	M0060	A	N	03	FG038	0	ON	NN	P01	NN
STRC	Example 2:	STRC	100	20	M0250	A	N	00	FN200	0	ON	NN	P01	NN

Size	
045	086
050	100
065	140
070	150

Length	Size:	045	050	065	070	086	100	140	150
10		•	•	•	•	•	•	•	•
20		-	-	•	•	•	•	•	•
30		-	-	-	-	•	•	•	•
40		-	-	-	-	-	•	-	-

Filtration rating (filter media)	
M0025 Wire mesh	25 µm
M0090 Wire mesh	90 µm
M0060 Wire mesh	60 µm
M0250 Wire mesh	250 µm

Element Δp	
A	1 bar

Seals and treatments	
N	Without seals

Bypass	
00	Without bypass
03	With bypass 0.03 MPa (0.3 bar)

Connection type	
FG	Thread ISO 1179-2 (GAS)
FN	Thread ANSI/ASME B 1.20.1 (NPT)

Nominal thread																			
Size: Length		045	050	065		070		086			100		140				150		
		10	10	10	20	10	20	10	20	30	10	20	10	20	30	40	10	20	30
038	3/8"	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
012	1/2"	●	●	●	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-
034	3/4"	-	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-
100	1"	-	-	-	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-
114	1 1/4"	-	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-
112	1 1/2"	-	-	-	-	-	-	●	●	●	●	●	●	-	-	-	-	-	-
200	2"	-	-	-	-	-	-	●	●	●	-	●	●	●	-	-	●	-	-
212	2 1/2"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-
300	3"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●

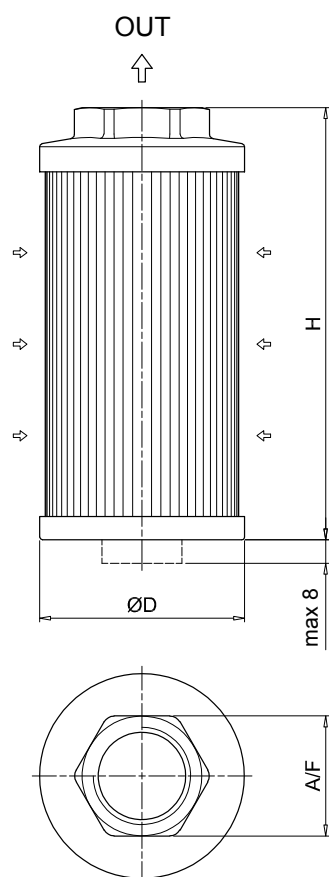
Additional connections	
0	Without additional connections

Connections for clogging indicators	
ON	Without connection

Additional features	
NN	Without additional features

Version	
P01	Standard catalogue item

Certificates	
NN	Without certificates



STRC						
Size	ØD [mm]	Length	Nominal thread	H [mm]	A / F [mm]	Weight [kg]
045	46	10	3/8" 1/2"	105	30	0.19
050	52	10	3/8" 1/2"	79		0.11
065	65	10	1/2" 3/4"	110	41	0.22
		20	3/4" 1"	144		0.24
070	70	10	1/2" 3/4"	95		0.18
		20	1/2" 3/4" 1"	141		0.24
086	86	10	1 1/2" 2"	143	69	0.33
		20	1 1/2" 2"	201		0.43
		30	1 1/2" 2"	261		0.53
100	99	10	1 1/4" 1 1/2"	137		0.47
		20	1 1/4" 1 1/2" 2"	227		0.58
140	130	10	1 1/2" 2"	160	101	0.70
		20	2"	262		0.94
		30	2 1/2" 3"	272		1.10
		40	3"	330		1.17
150	150	10	2"	150	70	0.34
		20	2 1/2"	212	90	0.37
		30	3"	272	100	0.40

Designation & Ordering code

COMPLETE FILTER

Series	Example 1:	MPAC	070	10	M0060	A	N	00	FG034	0	ON	NN	P01	NN
MPAC	Example 2:	MPAC	140	30	M0250	A	N	00	FN300	0	ON	MA	P01	NN

Size	
050	
070	
100	
140	

Length	Size:	050	070	100	140
10		•	•	•	•
20		-	•	•	•
30		-	-	-	•

Filtration rating (filter media)	
M0025 Wire mesh 25 µm	M0090 Wire mesh 90 µm
M0060 Wire mesh 60 µm	M0250 Wire mesh 250 µm

Element Δp	
A 1 bar	

Seals and treatments	
N Without seals	

Bypass	
00 Without bypass	

Connection type	
FG Thread ISO 1179-2 (GAS)	
FN Thread ANSI/ASME B 1.20.1 (NPT)	

Nominal thread								
Size:	050	070	100	140				
Length	10	10	20	10	20	10	20	30
038 3/8"	•	-	-	-	-	-	-	-
012 1/2"	•	•	-	-	-	-	-	-
034 3/4"	-	•	•	-	-	-	-	-
100 1"	-	-	•	•	-	-	-	-
114 1 1/4"	-	-	-	•	•	-	-	-
112 1 1/2"	-	-	-	-	•	•	-	-
200 2"	-	-	-	-	-	•	•	•
212 2 1/2"	-	-	-	-	-	-	•	-
300 3"	-	-	-	-	-	-	-	•

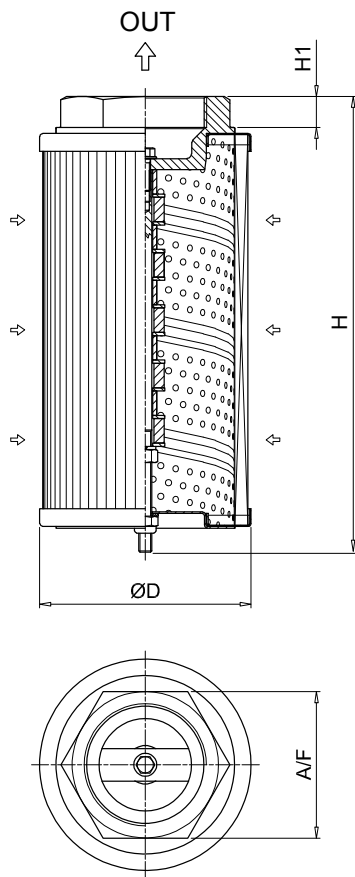
Additional connections	
0 Without additional connections	

Connections for clogging indicators	
ON Without connection	

Additional features	
NN Without additional features	
MA With magnetic filter	

Version	
P01 Standard catalogue item	

Certificates	
NN Without certificates	



MPAC							
Size	ØD [mm]	Length	Nominal thread	H [mm]	H1 [mm]	A/F [mm]	Weight [kg]
050	50	10	3/8"	98	16	28	0.17
			1/2"	113			0.27
070	70	10	3/4"	115	18	42	0.36
		20	1"	145			0.39
			1 1/4"	148			0.54
			1 1/2"	174			0.63
100	99	10	2"	162	20	60	0.95
		20	2 1/2"	272			0.91
			3"	281			0.98
			3"	322			1.00
140	136	10	3"	335	13	80	1.60
		20	2"	162			1.67
			2 1/2"	272			1.60
			3"	281			1.60
		30	3"	322			1.93