

Filter systems 1000 - 4000 l/h 250 - 1000 us-gph

Cartridges - Discs



Pump

- Magnetic drive PP pump with 2 hour dry run capability (M10, M11 and M15 only).

Filter chamber

- All PP housing.
- Leakfree welded base for optimal mechanical strength, with extra SS top plate for #31-32.
- No by-pass of unfiltered solution.

Filter media

- Cartridge systems accept wound, spun, carbon and pleated elements.
- All discs accept thin or thick filter paper or reusable cloth.
- Discs can easily be replaced.

Slurrytank (# 31-32)

- Round slurrytank with sloping bottom allows easy cleaning and complete drainage.
- Multi functional design allows carbon treatment, chemical mixing / additions, draining chamber before cleaning and pump priming.

Standard system includes:

- Union connection with PP/CPVC sockets, optional hose connectors.
- Motor starter (3 phase) with thermal overload.
- Air release and drain valve.
- 3m lead (without plug).
- Pressure gauge with membrane prevents contact with solution (except for #11,22).

No metal contact with the solution

- External fasteners are SS, with optional high phosphoric electroless nickel coating for strong Chloride, Fluoride and MSA environments.

Max. temperature 80 °C / 176 °F
Max. pressure 1,6 bar / 23 psi

Dimensions	L x W x H mm	Net kg	
# 11,21	390 x 275 x 680	12,16	
# 12,22	390 x 275 x 935	14,18	
Without slurrytank	# 31	390 x 315 x 905	22,31
With slurrytank	# 32-S	390 x 625 x 1160	30,35

1000 l/h - 0,12 kW
250 us-gph - 1/6 hp



M10 - 11A - K - PP 1 cartridge 10"

2000 l/h - 0,18 kW
500 us-gph - 1/4 hp



M11 - 21A - K - PP 2 cartridges 10" (parallel filtration)

3000 l/h - 0,18 kW
800 us-gph - 1/4 hp



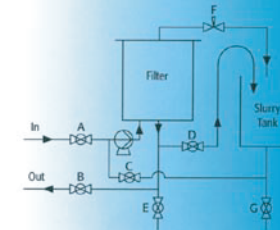
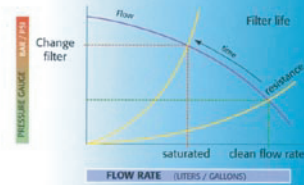
M15 - 31A - K - PP 3 cartridges 10"
M15 - 31A - P - PP 32 discs ODxD Ø 136 x 32mm (0,5m² / 5 ft²)

3000 l/h - 0,18 kW
800 us-gph - 1/4 hp

4000 l/h - 0,25 kW
1000 us-gph - 1/3 hp



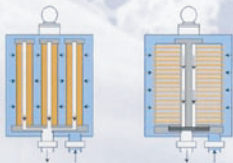
M15 - 32A - K - S - PP 3 cartridges 20" + slurrytank (14 L / 3,7 us-gallons)
M60 - 32A - P - S - PP 65 discs ODxD Ø 136 x 32mm (1m² / 11 ft²) + slurrytank



Action	Valve	A	B	C	D	E	F	G
1. Start up / Air release		o	o				o	
2. Operation		o	o					o
3. Filling slurrytank		o	o					o
4. Dosing filteraid				o	o			
5. Emptying slurrytank		o	o					o
6. Draining filterchamber						o	o	
7. Changing filtermedium								o
8. Draining slurrytank								o

o valve open

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Selection e.g. **M10** **11A** **K** **PP**

l/h* kW hp	M10	11A	K	PP	Material
1000 0,12 1/6	M10			PP	Material
2000 0,18 1/4	M11			PVDF	
			K		Cartridge
		11A			1 Chamber 10"
		12A			1 Chamber 20"
		21A			2 Chambers 10"
		22A			2 Chambers 20"

*Clean Flowrate

Selection e.g. **M60** **32A** **P** **S** **PP**

l/h* kW hp	M60	32A	P	S	PP	Material
3000 0,18 1/4	M15				PP	Material
4000 0,25 1/3	M60				PP	
						Without slurrytank
						With slurrytank
		31A				Chamber 10"
		32A				Chamber 20"
			K			Cartridges
			P			Discs

*Clean Flowrate

Pump	Chamber	Connections			
		Union Inlet d/DN	Union Outlet d/DN	Hose Inlet	Hose Outlet
M10	11,22	32/25	25/20	1"	1"
M11					
M15	31,32	32/25	25/20	1-1/4"	1"
M60					

d = OD DN = ID (mm)

Filter systems 5000 - 30000 l/h 1300 - 8000 us-gph

Cartridges - Discs



Pump

- Magnetic drive PP pump with 2 hour dry run capability (M336.M458 only).

Filter chamber

- All PP housing, # 71/72 also in PVDF.
- Leakfree welded base and SS top plate give optimal mechanical strength.
- No by-pass of unfiltered solution.

Filter media

- Cartridge systems accept wound, spun, carbon and pleated elements.
- All discs accept thin or thick filter paper or reusable cloth.
- Discs can easily be replaced.

Slurrytank

- Round slurrytank with sloping bottom allows easy cleaning and complete drainage.
- Multi functional design allows carbon treatment, chemical mixing / additions, draining chamber before cleaning and pump priming.

Standard system includes:

- Union connection with PP/CPVC sockets and optional hose connectors or flanges.
- Motor starter 3 phase with thermal overload.
- Air release and drain valve.
- 3m lead (without plug).
- Pressure gauge with membrane prevents contact with solution.

No metal contact with the solution

- External fasteners are SS, with optional high phosphoric electroless nickel coating for strong Chloride, Fluoride and MSA environments.

Max temperature	PP 80 °C / 176 °F
	PVDF 90 °C / 194 °F
Max pressure	Without reinforcement 1,6 bar / 23 psi
	With reinforced bottom 5 bar / 72 psi

Dimensions	L x W x H mm	Net kg
	Without slurrytank	# 71 490 x 370 x 920
With slurrytank	# 151 600 x 485 x 982	65.75
	# 72-S 675 x 490 x 1175	40.50
	# 152-S 600 x 895 x 1235	70.80

5000 - 10.000 l/h 0,25 - 0,55 kW
1300 - 2600 us-gph 1/3 - 3/4 hp

Also available in PVDF for chromium plating solutions

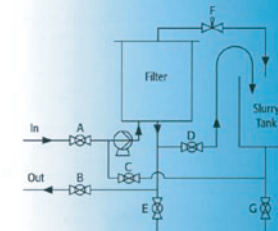
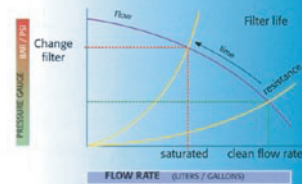


- M60 - 71A - K - PP 7 cartridges 10"
- M60 - 71A - P - PP 32 discs ODxD Ø 205 x 32mm (0,9m² / 10 ft²)

10.000 - 30.000 l/h
2600 - 8000 us-gph



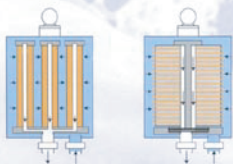
- M300 - 152A - K - S - PP 15 cartridges 20" + slurrytank (45 L / 12 us-gallons)
- M300 - 152A - P - S - PP 65 discs ODxD Ø 280 x 50mm (4m² / 43 ft²) + slurrytank



Action	Valve	A	B	C	D	E	F	G
1. Start up / Air release		o	o					o
2. Operation		o	o					
3. Filling slurrytank		o	o	o				
4. Dosing filteraid				o	o			
5. Emptying slurrytank		o	o	o				
6. Draining filterchamber					o	o		
7. Changing filtermedium								o
8. Draining slurrytank								o

o valve open

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Selection e.g. **M60 71A K PP**

l/h	kW	hp	Material
5000	0,25	1/3	M60 PP Without slurrytank
5000	0,55	3/4	M62 PP Without slurrytank
8000	0,37	1/2	M90 PP With slurrytank
10000	0,55	3/4	M120 PP With slurrytank

Chamber 10" 71A K Cartridges
Chamber 20" 72A P Discs

*Clean Flowrate

Selection e.g. **M150 152A P S PP**

l/h	kW	hp	Material
10000	1,1	1 1/2	M110 PP Without slurrytank
15000	1,5	2	M150 PP Without slurrytank
20000	2,2	3	M220 PP Without slurrytank
25000	3	4	M300 PP With slurrytank
30000	4	5 1/2	M400 PP With slurrytank

Chamber 10" 151A K discs
Chamber 20" 152A P cartridges

*Clean Flowrate

Pump Chamber	Connections			
	Union		Hose	
	Inlet d/DN	Outlet d/DN	Inlet	Outlet
M60			1-1/4"	
M90	71.72	32/25	32/25	1-1/4"
M120		40/32	40/32	1-1/2"
M150		50/40	50/40	1-1/2"
M220	151.152	63/50	40/32	2
M300		63/50	63/50	2-1/2"
M400		63/50	63/50	2-1/2"

d = OD DN = ID (mm)

