



Arkal Product Guide



Disc Filtration Technology

Standard Features:

- Micron-precise filtration of solids
- Innovative depth filter design traps and retains large amounts of solids
- Long-term operation with minimal maintenance or cleaning

Arkal's distinctively developed disc filtration technology operates using thin, color-coded polypropylene discs of a specific micron size. The discs are diagonally grooved on both sides, in opposite directions. A series of discs are stacked and compressed on a specially designed spine.

The grooves of any two adjacent discs, pressed together, create a series of crossing points which form multiple particle traps. In the filtration process, the force of the spring along with the differential pressure firmly compresses these discs together providing exceptional filtration efficiency. Filtration occurs as water percolates from the outer diameter to the inner diameter of the filter element. Depending on the micron rating, there are multiple crossing points in each track, creating distinctive in-depth filtration.

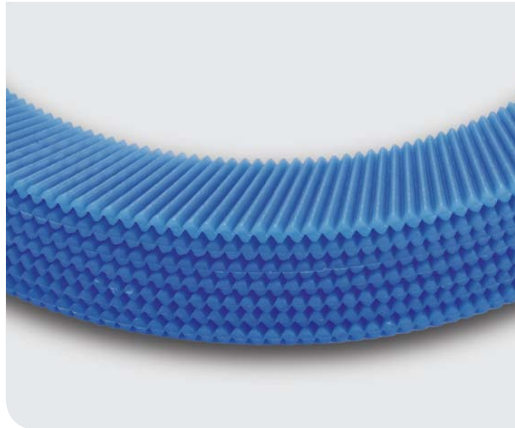


Table of Filtration Grades of the Discs and Color Code

Color Code	Blue	Yellow	Red	Black	Brown	Green	Purple	Gray
Micron	400	200	130	100	70	55	40	20
Mesh	40	80	120	140				

SpinKlin® Technology - Fully Automatic Disc Filter



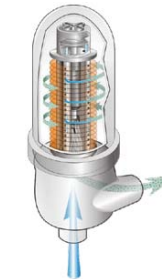
Standard Features:

- Securely stacked discs for micron-precise filtration solids
- Corrosion resistant spine
- Innovative depth filter design captures and retains large amounts of solids for longer filtration cycles
- Short, efficient backwash process conserves water and energy
- Easy and simple operation
- Long-term operation with minimal maintenance

Filtration Process:



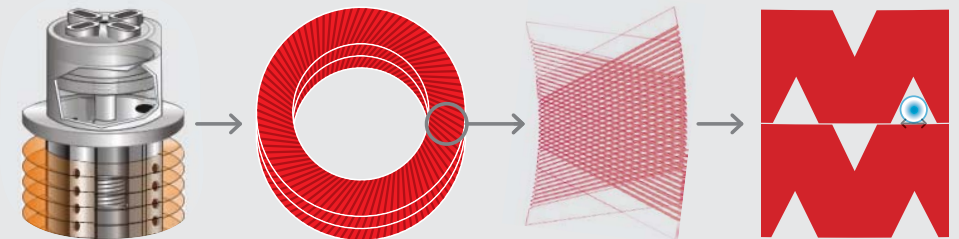
The color coded micron sized filtration discs are stacked on the SpinKlin® spine and assembled according to predetermined water filtration requirements. During filtration, the discs are compressed by means of preloaded spring and differential pressure, forcing the water to pass through the grooved discs surface, thus trapping the solids.



Backwash Process:

Activated by a predefined time command or differential pressure, the system enters backwash mode. The inlet valve port shuts as the drain port opens. During the backwash process, pressure is released and the spine's piston rises, releasing the compression on the discs. Tangential jets of clean water are then forced through the nozzles positioned along the spine. At this stage the discs spin freely, loosening the trapped solids which are then flushed out.

Diagonally Grooved Disc Filtration



2" SpinKlin®

Automatic Compact (stand alone) Disc Filter



Inlet/Outlet Connection

2"

Flow Capacity

10-20 m³/h

Operation

Fully automatic
disc filtration unit

Special Features:

- Automatic backwash for self-cleaning.
- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs, minimizes maintenance, and permanently eliminates the need to replace filter media.
- Compact design.

Technical Data

Max. pressure	10 bar
Min. backwash pressure	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	20 m ³ /h
70 micron	12 m ³ /h
55 micron	10 m ³ /h
Filtration surface area	880 cm ²
Filtration volume	1,148 cm ³
Battery length - L	829 mm
Battery height - H	612 mm
Battery width - W	285 mm
Weight	20 kg

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Easy and simple operation

2" SpinKlin®

Automatic Disc Filter Systems



Inlet/Outlet Connection

2" - 6"

Flow Capacity

20-120 m³/h

Operation

Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs – minimizes maintenance, and permanently eliminates the need to replace filter media.
- Modular batteries allow for easy system expansion.

Technical Data

	2 Units	3 Units	4 Units
Max. pressure	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	40 m ³ /h	60 m ³ /h	80 m ³ /h
70 micron	24 m ³ /h	36 m ³ /h	48 m ³ /h
55 micron	20 m ³ /h	30 m ³ /h	40 m ³ /h
20 micron	10 m ³ /h	15 m ³ /h	20 m ³ /h
Filtration surface area	1,760 cm ²	2,640 cm ²	3,520 cm ²
Filtration volume	2,296 cm ³	3,444 cm ³	4,592 cm ³
Battery length - L	698 mm	964 mm	1,214 mm
Battery height - H	737 mm	747 mm	747 mm
Battery width - W	638 mm	662 mm	662 mm
Weight polypropylene	30 kg	50 kg	70 kg
Standard manifold	3"	4"	4"

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

3" SpinKlin®

Automatic Disc Filter Systems



Inlet/Outlet Connection

4" - 8"

Flow Capacity

90-200 m³/h

Operation

Modular, fully automatic disc filtration

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs – minimizes maintenance, and permanently eliminates the need to replace filter media.
- Modular batteries allow for easy system expansion.
- Cost effective.

Technical Data

	3 Units	4 Units	5 Units
Max. pressure	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	90 m ³ /h	120 m ³ /h	150 m ³ /h
70 micron	72 m ³ /h	96 m ³ /h	120 m ³ /h
55 micron	60 m ³ /h	80 m ³ /h	100 m ³ /h
20 micron	30 m ³ /h	40 m ³ /h	50 m ³ /h
Filtration surface area	5,280 cm ²	7,040 cm ²	8,800 cm ²
Filtration volume	6,888 cm ³	9,184 cm ³	11,480 cm ³
Battery length - L	945 mm	1,195 mm	1,445 mm
Battery height - H	1,291 mm	1,291 mm	1,291 mm
Battery width - W	865 mm	865 mm	865 mm
Weight polypropylene	120 kg	150 kg	180 kg
Standard manifold	6"	6"	6"

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

4" SpinKlin® Galaxy

Automatic Disc Filter Systems



Inlet/Outlet Connection

8" - 16"

Flow Capacity

**200-3,000 m³/h
and higher**

Operation

**Modular, fully
automatic disc
filtration**

Standard Features:

- Micron-precise filtration of solids
- Innovative filter design captures and retains large amounts of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

Special Features:

- Particularly cost effective high flow module.
- The backwash cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water and automatically cleans the filter element. This saves labor and costs – minimizes maintenance, and permanently eliminates the need to replace filter media.
- Modular batteries allow for easy system expansion.

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. pressure	10 bar	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	300 m ³ /h	400 m ³ /h	500 m ³ /h	600 m ³ /h
70 micron	180 m ³ /h	240 m ³ /h	300 m ³ /h	360 m ³ /h
55 micron	150 m ³ /h	200 m ³ /h	250 m ³ /h	300 m ³ /h
20 micron	75 m ³ /h	100 m ³ /h	125 m ³ /h	150 m ³ /h
Filtration surface area	13,200 cm ²	17,600 cm ²	22,000 cm ²	26,400 cm ²
Filtration volume	17,219 cm ³	22,959 cm ³	28,698 cm ³	34,438 cm ³
Battery length - L	1.45 m	1.95 m	2.74 m	2.67 m
Battery height - H	1.37 m	1.37 m	1.41 m	1.46 m
Battery width - W	0.88 m	0.97 m	0.97 m	0.97 m
Weight (plastic valves)	190 kg	255 kg	310 kg	385 kg
Standard manifold	8"	10"	10"	12"

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

6" SpinKlin® Galaxy

Automatic Disc Filter Systems

The number of filters in the modules of a specific system is determined according to the system designed flowrate and may range between 2 to 12.



Inlet/Outlet Connection

12"

Flow Capacity

800 m³/h
and higher

Operation

Modular, fully
automatic disc
filtration

Standard Features:

- Micron-precise filtration of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash
- Cost effective high flow system

Special Features:

- Low headloss/energy consumption.
- Innovative filter design captures and retains large amounts of solids.
- Corrosion resistant construction materials, suitable for sea and brackish water.
- NSF 61 standard approved.

Technical Data

	4 Modules System	5 Modules System	6 Modules System	7 Modules System	8 Modules System
Max. pressure	8 bar	8 bar	8 bar	8 bar	8 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron	3,120 m ³ /h	3,900 m ³ /h	4,680 m ³ /h	5,460 m ³ /h	6,240 m ³ /h
70 micron	2,208 m ³ /h	2,760 m ³ /h	3,312 m ³ /h	3,864 m ³ /h	4,416 m ³ /h
55 micron	1,920 m ³ /h	2,400 m ³ /h	2,880 m ³ /h	3,360 m ³ /h	3,840 m ³ /h
20 micron	960 m ³ /h	1,200 m ³ /h	1,440 m ³ /h	1,680 m ³ /h	1,920 m ³ /h
Filtration surface area	168,960 cm ²	211,200 cm ²	253,440 cm ²	295,680 cm ²	337,920 cm ²
Filtration volume	220,416 cm ³	275,520 cm ³	330,624 cm ³	385,728 cm ³	440,832 cm ³
System length - L (meter)	9.5 m	11.5 m	13.5 m	15.5 m	17.5 m
System width - W (meter)	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m
System height - H (meter)	1.5 m	1.5 m	1.5 m	1.5 m	1.5 m
Standard manifold 6x6" (module)	12"	12"	12"	12"	12"

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

3"-4" SpinKlin® Angle Apollo

Automatic Disc Filter Systems



Inlet/Outlet Connection

6" - 8"

Flow Capacity

**90-360 m³/h
and higher**

Operation

**Modular, fully
automatic disc
filtration**

Special Features:

- Unique construction, easy installation.
- Particularly cost effective high flow module.
- All materials which come in contact with water are polymeric.

Technical Data	3 Units	4 Units	5 Units	6 Units	7 Units	8 Units	
Max. pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	
Min. backwash pressure	2 bar	2 bar	2 bar	2 bar	2 bar	2 bar	
Max. flowrate:	400-130µm	120 m ³ /h	160 m ³ /h	200 m ³ /h	240 m ³ /h	280 m ³ /h	320 m ³ /h
	100µm	110 m ³ /h	145 m ³ /h	180 m ³ /h	215 m ³ /h	250 m ³ /h	290 m ³ /h
Filtration surface area	7,860 cm ²	10,480 cm ²	13,100 cm ²	15,720 cm ²	18,340 cm ²	20,960 cm ²	
Filtration volume	9,426 cm ³	12,568 cm ³	15,710 cm ³	18,852 cm ³	21,994 cm ³	25,136 cm ³	
Backwash flow per filter	24 m ³ /h	24 m ³ /h	24 m ³ /h	24 m ³ /h	24 m ³ /h	24 m ³ /h	
System length - L	1,160 mm	1,520 mm	1,920 mm	2,280 mm	2,660 mm	3,040 mm	
System width - W	1,048 mm	1,048 mm	1,118 mm	1,118 mm	1,160 mm	1,160 mm	
System height - H	1,201 mm	1,201 mm	1,285 mm	1,285 mm	1,307 mm	1,307 mm	
Standard diameter	6"	6"	8"	8"	10"	10"	

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Standard Features:

- Micron-precise filtration of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

4" SpinKlin® Twin Apollo

Automatic Disc Filter Systems



Inlet/Outlet Connection

8" - 12"

Flow Capacity

**180-600 m³/h
and higher**

Operation

**Modular, fully
automatic disc
filtration**

Special Features:

- Unique construction, easy installation.
- Particularly cost effective high flow module.
- All materials which come in contact with water are polymeric.

Technical Data	3 Units	4 Units	5 Units	6 Units	7 Units	8 Units	
Max. pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	
Min. backwash pressure	2 bar	2 bar	2 bar	2 bar	2 bar	2 bar	
Max. flowrate:	400-130µm	225 m ³ /h	300 m ³ /h	375 m ³ /h	450 m ³ /h	525 m ³ /h	600 m ³ /h
	100µm	215 m ³ /h	290 m ³ /h	360 m ³ /h	430 m ³ /h	505 m ³ /h	580 m ³ /h
Filtration surface area	15,720 cm ²	20,960 cm ²	26,200 cm ²	31,440 cm ²	36,680 cm ²	41,920 cm ²	
Filtration volume	18,852 cm ³	25,136 cm ³	31,420 cm ³	37,704 cm ³	43,988 cm ³	50,272 cm ³	
Backwash flow per filter	48 m ³ /h	48 m ³ /h	48 m ³ /h	48 m ³ /h	48 m ³ /h	48 m ³ /h	
System length - L	1,450 mm	2,240 mm	2,740 mm	3,240 mm	3,740 mm	4,240 mm	
System width - W	1,533 mm	1,533 mm	1,533 mm	1,533 mm	1,533 mm	1,533 mm	
System height - H	1,699 mm	1,833 mm	1,833 mm	1,833 mm	1,307 mm	1,930 mm	
Standard diameter	8"	10"	10"	10"	12"	12"	

* Apollo 4" Twin with plaslite 4" x 3".

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Standard Features:

- Micron-precise filtration of solids
- Long-term operation with little maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash

12" SpinKlin® Galaxy Super Flow

Automatic Disc Filter Systems



Inlet/Outlet Connection

12"

Flow Capacity

1,500 m³/h
and higher

Operation

Modular, fully
automatic disc
filtration

Standard Features:

- Small footprint - high flow
- Precise particle separation
- Innovative filter design captures and stores large amounts of solids
- Low energy and water consumption
- Long-term operation with barely any maintenance
- Operation is easy and requires no special tools
- Continuous water supply during backwash
- Polyester coated steel

Special Features:

- Unique solution for high flow requirements.
- Particularly cost effective high flow module.
- The flushing cycle has a regulated volume, is short and environmentally friendly as it minimizes the use of flush water.
- Modular batteries allow for easy expansion of system.
- Low labor costs - minimum maintenance.

Technical Data	3 Units	4 Units	5 Units	6 Units
Max. pressure	10 bar	10 bar	10 bar	10 bar
Min. backwash pressure	2.8 bar	2.8 bar	2.8 bar	2.8 bar
Max. flowrate: 400-100 micron (40-140 mesh)	2,295 m ³ /h	3,060 m ³ /h	3,825 m ³ /h	4,590 m ³ /h
70 micron	1,836 m ³ /h	2,448 m ³ /h	3,060 m ³ /h	3,672 m ³ /h
55 micron	1,530 m ³ /h	2,040 m ³ /h	2,550 m ³ /h	3,060 m ³ /h
20 micron	—	—	1,275 m ³ /h	1,530 m ³ /h
Filtration surface area	134,640 cm ²	179,520 cm ²	224,400 cm ²	269,280 cm ²
Filtration volume	175,644 cm ³	234,192 cm ³	292,740 cm ³	351,288 cm ³

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Manual Disc Filters 3/4" - 1" - 1 1/2"



3/4" 1" 1" Super 1 1/2" 1 1/2" Super

Inlet/Outlet Connection

3/4" - 1" - 1 1/2"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Excellent corrosion resistance
- Long life span
- Polyamide housing - resistant to harsh environmental conditions (3/4" PBT housing)

3/4" Technical Data

	3/4"
Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	4 m³/h
Filtration surface area	160 cm²
Filtration volume	95 cm³
Filter length - L	144 mm
Filter width - WØ	74 mm
Distance between end connections - A	150 mm
Weight	0.37 kg

1" Technical Data

	1"	1" Super
Max. pressure	10 bar	10 bar
Flowrate: 400-100 micron (40-140 mesh)	6 m³/h	8 m³/h
55 micron	4 m³/h	6 m³/h
Filtration surface area	306 cm²	500 cm²
Filtration volume	360 cm³	592 cm³
Filter length - L	233 mm	340 mm
Filter width - WØ	130 mm	130 mm
Distance between end connections - A	158 mm	158 mm
Weight	1.1 kg	1.4 kg

1 1/2" Technical Data

	1 1/2"	1 1/2" Super
Max. pressure	10 bar	10 bar
Flowrate: 400-100 micron (40-140 mesh)	8 m³/h	12 m³/h
55 micron	5 m³/h	8 m³/h
Filtration surface area	306 cm²	500 cm²
Filtration volume	360 cm³	592 cm³
Filter length - L	250 mm	350 mm
Filter width - WØ	130 mm	130 mm
Distance between end connections - A	200 mm	200 mm
Weight	1.3 kg	1.5 kg

Manual Disc Filters 2"-3"



2" Dual



3" Twin

Inlet/Outlet Connection

2" - 3"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Excellent corrosion resistance
- Long life span

Special Features:

- 2" super filter - Tangential inlet for higher retention capacity.
- 2" Dual filter - Angle or in-line outlet options for maximum flexibility.
- 3" Twin filter - Largest filtration area of comparable products.
- Polyamide housing - resistant to harsh environmental conditions.

2" Line/Dual Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	25 m ³ /h
70 micron	20 m ³ /h
55 micron	17 m ³ /h
20 micron	8 m ³ /h
Filtration surface area	950 cm ²
Filtration volume	1,225 cm ³
Filter length - L	437 mm/465 mm
Filter width - WØ	200 mm
Distance between end connections	A. 260 mm B. 76 mm
Weight	5 kg

3" Twin Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m ³ /h
70 micron	40 m ³ /h
55 micron	34 m ³ /h
20 micron	16 m ³ /h
Filtration surface area	1,900 cm ²
Filtration volume	2,450 cm ³
Filter length - L	865 mm
Filter width - WØ	200 mm
Distance between end connections	A. 260 mm B. 76 mm
Distance between end connections - A	320 mm
Weight (flanged)	13.95 kg
Weight (victualic, threaded)	9.85 kg

Manual Disc Filters 2"-3" Leader



2" Leader



3" Leader

Inlet/Outlet Connection

2" - 3"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Special Features:

- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

2" Leader Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	25 m ³ /h
70 micron	20 m ³ /h
55 micron	17 m ³ /h
20 micron	8 m ³ /h
Filtration surface area	950 cm ²
Filtration volume	1,225 cm ³
Filter length - L	425 mm
Filter width - WØ	195 mm
Distance between end connections	A. 230 mm
	B. 75 mm
Weight	2 kg

3" Leader Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m ³ /h
70 micron	40 m ³ /h
55 micron	34 m ³ /h
20 micron	16 m ³ /h
Filtration surface area	1,900 cm ²
Filtration volume	2,450 cm ³
Filter length - L	742 mm
Filter width - WØ	200 mm
Distance between end connections	A. 260 mm
	B. 76 mm
Distance between end connections - A	320 mm
Weight (flanged)	8 kg
Weight (victualic, threaded)	6.3 kg

Manual Disc Filters

2" Dual Lite, 3" Twin Lite



2" Dual Leader



3" Twin Lite

Inlet/Outlet Connection

2" - 3"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Special Features:

- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.
- Unique polymeric clamp.

2" Dual Lite Technical Data

Max. pressure	8 bar
Flowrate: 400-100 micron (40-140 mesh)	25 m ³ /h
70 micron	20 m ³ /h
55 micron	17 m ³ /h
20 micron	8 m ³ /h
Filtration surface area	950 cm ²
Filtration volume	1,225 cm ³
Filter length - L	416 mm
Filter width - WØ	195 mm
Distance between end connections	A. 260 mm B. 75 mm
Weight	3 kg

3" Twin Lite Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m ³ /h
70 micron	40 m ³ /h
55 micron	34 m ³ /h
20 micron	16 m ³ /h
Filtration surface area	1,900 cm ²
Filtration volume	2,450 cm ³
Filter length - L	840 mm
Filter width - WØ	225 mm
Distance between end connections - A	320 mm
Weight	5.9 kg

Manual Disc Filters 3" - 4" Super Angle



3" Super Angle



4" Super Angle

Inlet/Outlet Connection

3" - 4"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Special Features:

- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

3" Super Angle Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	50 m ³ /h
55 micron	35 m ³ /h
20 micron	18 m ³ /h
Filtration surface area	1,852 cm ²
Filtration volume	2,223 cm ³
Filter height - H	666 mm
Filter length - L	397 mm
Filter width - WØ	280 mm
Distance between end connections	A. 185 mm
	B. 145 mm
Weight - flanged	12.55 kg
Weight - victaulic, threaded	11.05 kg

4" Super Angle Technical Data

Max. pressure	10 bar
Flowrate: 400-100 micron (40-140 mesh)	60 m ³ /h
55 micron	40 m ³ /h
20 micron	20 m ³ /h
Filtration surface area	1,852 cm ²
Filtration volume	2,223 cm ³
Filter height - H	664 mm
Filter length - L	410 mm
Filter width - WØ	280 mm
Distance between end connections	A. 187 mm
	B. 145 mm
Weight - flanged	13.50 kg
Weight - victaulic, threaded	11.40 kg

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

Manual Disc Filters 4" - 6" Super Leader



4" Super Leader



6" Super Leader

Inlet/Outlet Connection

4" - 6"

Standard Features:

- Innovative filter design captures and retains large amounts of solids
- Operation is easy and requires no special tools
- Long life span

Special Features:

- The largest polypropylene disc filters.
- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

4" Super Leader Technical Data

Max. pressure	10 bar
Max. flowrate: 400-100 micron	110 m ³ /h
Filtration surface area	3,704 cm ²
Filtration volume	4,446 cm ³
Filter length - L	1,185 mm
Filter width - WØ	280 mm
Distance between end connections - A	445 mm
Weight - flanged	24.65 kg

6" Super Leader Technical Data

Max. pressure	10 bar
Max. flowrate: 400-100 micron	160 m ³ /h
Filtration surface area	3,704 cm ²
Filtration volume	4,446 cm ³
Filter length - L	1,185 mm
Filter width - WØ	280 mm
Distance between end connections - A	415 mm
Weight - flanged	26.40 kg

* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel.

PSA Series - Polymeric Semi-Automatic Screen Filters



3" - 4" Angle



4" - 6" Super Leader

Inlet/Outlet Connection

3" - 4" - 6"

Standard Features:

- High efficiency sand separation
- Long-term self-operated - minimal maintenance
- Corrosion resistant

Special Features:

- The largest polypropylene disc filters.
- Easy to open, clean and close.
- Suitable for all commonly used fertilizers and acids.
- Suitable for sea and brackish water, high and low pH 2-13.
- Polypropylene housing - excellent chemical resistance.

Model Number		Operations Pressure		Connection Size (inch)	Screen Area (cm ²)	Max. Flow Rate (m ³ /h)*	Weight (kg)
		Min. bar	Max. bar				
AKSP3LT	3" Threaded	1	10	3	1,250	60	12
AKSP3LV	3" VIC	1	10	3	1,250	60	12
AKSP3LF	3" Flange	1	10	3	1,250	60	13
AKSP4LV	4" VIC	1	10	4	1,250	90	13
AKSP4LF	4" Flange	1	10	4	1,250	90	14
AKSP4S	4" Twin Flange	1	10	4	2,500	110	26
AKSP6S	6" Twin Flange	1	10	6	2,500	140	28

AKSP = Arkal Semi Automatic Polypropylene

L = Angle filter connection

T = Threaded filter connection

V = Victaulic filter connection

F = Flanged filter connection

S = Super leader filter (inline filter connection)

* Flowrate data are for good quality water at filtration grade of 120 micron.

Sand Separator Systems



2" Sand Separator



2" Sand Separator Batteries

Inlet/Outlet Connection

**2" sand separator
Modular design
in batteries 3"-10"**

Special Features:

- Suitable for aquaculture and marine environment.

2" Sand Separator Technical Data

Max. pressure	10 bar
Flowrate	15-25 m ³ /h
Filter length - L	540 mm
Filter width - W	290 mm
Distance between end connections	A. 145 mm
	B. 85 mm
Weight	5.3 kg

2" Sand Separator Batteries Technical Data

	2 Units	3 Units	4 Units
Max. pressure	10 bar	10 bar	10 bar
Flowrate	30-50 m ³ /h	45-75 m ³ /h	60-100 m ³ /h
Battery length - L	605 mm	855 mm	1,105 mm
Battery height - H	1,220 mm	1,220 mm	1,220 mm
Battery width - W	556 mm	556 mm	556 mm
Weight	65 kg	115 kg	145 kg

Standard Features:

- High efficiency sand separation
- Long-term self-operated - minimal maintenance
- Corrosion resistant

A.G.F Media Filters and Batteries



48" AGF



48" AGF Batteries

Inlet/Outlet Connection

48" tank diameter
4" inlet/outlet diameter

Standard Features:

- High quality filtration of solid impurities
- Easy automated operation, requires no special tools

Special Features:

- All plastic media filter is completely corrosion resistant.
- Two large service ports allow for easy access and media maintenance.
- Lightweight - easy and quick installation.
- Unique internal nozzle design for maximum cleansing of filter media.
- Suitable for aquaculture and marine environment.

48" AGF Technical Data

Max. pressure	6 bar
Max. flowrate (single filter)	70 m ³ /h
Diameter inlet/outlet	4" (Victualic)
Filter diameter	48" (1,220 mm)
Distance between end connections - H	1,106 mm
Distance between two filters - L	1,320 mm
Weight	120 kg

48" AGF Batteries Technical Data

	2 Units	3 Units	4 Units	5 Units	6 Units
Max. pressure	6 bar	6 bar	6 bar	6 bar	6 bar
Flowrate	140 m ³ /h	210 m ³ /h	280 m ³ /h	350 m ³ /h	420 m ³ /h
Diameter connection	160 mm	160 mm	200 mm	200 mm	200 mm
Filtration surface area	2.32 m ²	3.48 m ²	4.64 m ²	5.80 m ²	6.96 m ²
Battery height	1,991 mm	1,991 mm	2,017 mm	2,017 mm	2,017 mm
Distance between end connections	2,630 mm	3,950 mm	5,270 mm	6,590 mm	7,910 mm

2" Compact SpinKlin® L.C.E.

Automatic Disc Filter



Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	10 m ³ /h	44 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data

Max. flowrate 400-130 µ	15 m ³ /h	66 gpm
Max. flowrate 100 µ	12 m ³ /h	53 gpm
Filtration surface area	880 cm ²	136.4 inch ²
Filtration volume	1148 cm ³	70 inch ³

2" SpinKlin® L.C.E.

Automatic Disc Filter



Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	10 m ³ /h	44 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	45 m ³ /h	60 m ³ /h	75 m ³ /h	90 m ³ /h
Max. flowrate 100 µ	36 m ³ /h	48 m ³ /h	60 m ³ /h	72 m ³ /h
Filtration surface area	2640 cm ²	3520 cm ²	4400 cm ²	5280 cm ²
Filtration volume	3444 cm ³	4592 cm ³	5740 cm ³	6888 cm ³

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	198 gpm	264 gpm	330 gpm	369 gpm
Max. flowrate 100 µ	158 gpm	211 gpm	264 gpm	317 gpm
Filtration surface area	409 inch ²	545 inch ²	628 inch ²	818 inch ²
Filtration volume	210 inch ³	280 inch ³	350 inch ³	420 inch ³

3" SpinKlin® L.C.E.

Automatic Disc Filter



Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	20 m ³ /h	88 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 μ	90 m ³ /h	120 m ³ /h	150 m ³ /h	180 m ³ /h
Max. flowrate 100 μ	72 m ³ /h	96 m ³ /h	120 m ³ /h	144 m ³ /h
Filtration surface area	5280 cm ²	7040 cm ²	8800 cm ²	10560 cm ²
Filtration volume	6888 cm ³	9184 cm ³	11480 cm ³	13776 cm ³

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 μ	396 gpm	528 gpm	660 gpm	792 gpm
Max. flowrate 100 μ	317 gpm	422 gpm	528 gpm	634 gpm
Filtration surface area	818 inch ²	1091 inch ²	1364 inch ²	1636 inch ²
Filtration volume	420 inch ³	560 inch ³	700 inch ³	840 inch ³

3" SpinKlin® Apollo Angle L.C.E. Automatic Disc Filter



Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	20 m ³ /h	88 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	120 m ³ /h	160 m ³ /h	200 m ³ /h	240 m ³ /h
Max. flowrate 100 µ	110m ³ /h	145 m ³ /h	180 m ³ /h	215 m ³ /h
Filtration surface area	7860 cm ²	10480 cm ²	13100 cm ²	15720 cm ²
Filtration volume	9426 cm ³	12568 cm ³	15710 cm ³	18852 cm ³

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	530 gpm	705 gpm	880 gpm	1.055 gpm
Max. flowrate 100 µ	485 gpm	639 gpm	793 gpm	947 gpm
Filtration surface area	1220 inch ²	1625 inch ²	2030 inch ²	2435 inch ²
Filtration volume	575 inch ³	767 inch ³	595 inch ³	1150 inch ³

4" SpinKlin®Apollo Twin L.C.E.

Automatic Disc Filter



Filter that can flush at:

1.5 bar - (22 psi)

Standard Features:

- Proven dept filtration technology
- Will flush at low pressure (1.5 bar-22 psi)
- Flushing at low pressure uses less energy and will save money
- Will increase profitability

Special Features:

- Surface water with algae and organic debris.
- Well water.
- For low pressure systems where higher pressures are not available or are too costly.

Technical Data

Max. operating pressure	6 bar	87 psi
Min. operating pressure	1 bar	14 psi
Min. backwash pressure (downstream backwash pressure)	1.5 bar	22 psi
Backwash flowrate per unit	40 m ³ /h	175 gpm
Max. temperature	60° C	140° F
pH	4-11	4-11

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	225 m ³ /h	300 m ³ /h	375 m ³ /h	450 m ³ /h
Max. flowrate 100 µ	215 m ³ /h	290 m ³ /h	360 m ³ /h	430 m ³ /h
Filtration surface area	15720 cm ²	20960 cm ²	26200 cm ²	31440 cm ²
Filtration volume	18852 cm ³	25136 cm ³	31420 cm ³	37704 cm ³

Technical Data

	3 Units	4 Units	5 Units	6 Units
Max. flowrate 400-130 µ	990 gpm	1320 gpm	1650 gpm	1980 gpm
Max. flowrate 100 µ	947 gpm	1227 gpm	1585 gpm	1894 gpm
Filtration surface area	2435 inch ²	3245 inch ²	4055 inch ²	4865 inch ²
Filtration volume	1150 inch ³	1534 inch ³	1917 inch ³	2301 inch ³



Municipal



Industry



Irrigation

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