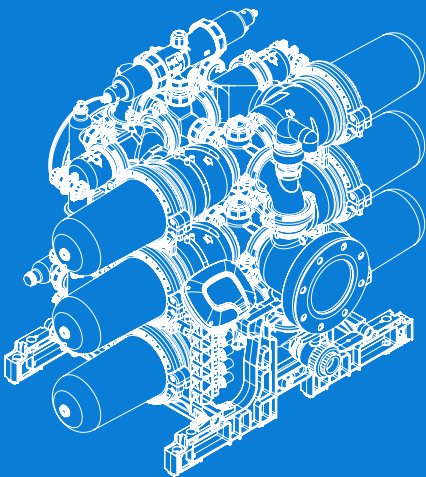
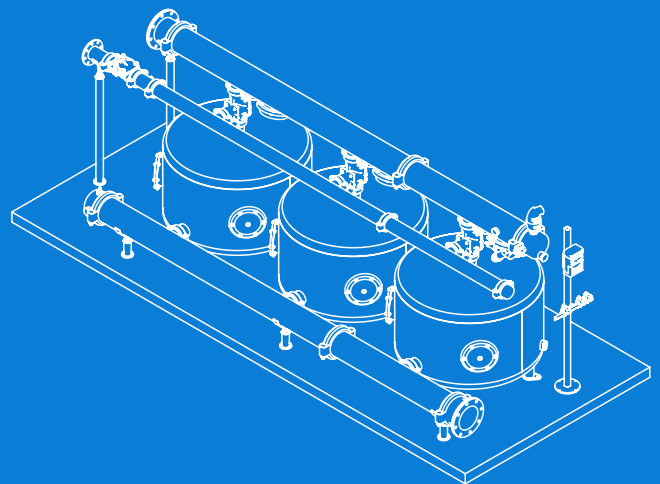
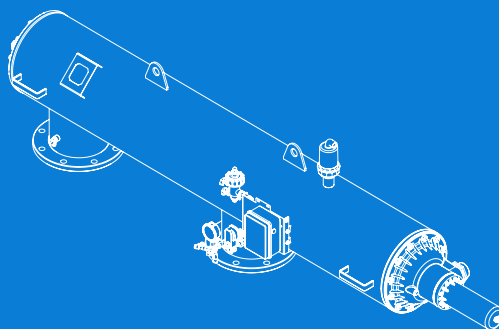


Filtration Flow Rate

2025 v001

/ Based on Water Quality



Precision
Agriculture



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Filtration is critical in any drip irrigation system. Effective filtration is essential for proper irrigation system operation and long-term performance, as it prevents the irrigation water from clogging the drippers.

Water Quality Definitions

Excellent	Excellent Water Quality is Municipal Water Quality classification with negligible to no detectable contaminants. This quality is typical water found in testing laboratories to determine friction loss targets for manufacturers. Published flow rates with excellent water quality are the extreme upper limit of a products published flow rate capabilities.
Good	Good Water Quality is normal well water with minimal to no measurable amounts of sand, silt, or clay. Good Water Quality will also only have trace amounts of minerals and/or biological material. This fits typical clean well water classification.
Average	Average Water Quality is well water with mild amounts of measurable sand (<2 ppm) and / or light loads of debris in surface water. Average Water Quality will have increased debris loads of minerals and biological activity. This fits more applications of properly maintained surface water (reservoirs, canals, lakes, ponds) classification.
Poor	Poor Water Quality is well water with moderate to excessive amounts of measurable sand (up to 10 ppm) or surface water in hot climates with increased biological growth and / or no chemical treatment. This fits more applications of poorly maintained surface water (reservoirs, canals, lakes, ponds) classification.
Very Poor	Very Poor Water Quality is well water with extreme amounts of sand greater than 10 ppm as well as rivers, muddy canals, lakes and ponds with severe run off deposits and / or raw municipal wastewater. This fits most applications of municipal and / or animal wastewater classification.

Water Quality Tables

As the different filtration technologies function differently with sand, silts, organics and other particles. It is important we address each technology differently with regards to water quality. Therefore, each Filtration Technology will have a separate table which applies to it's abilities to handle various water conditions. The tables are built based on historical filtration test for filtration velocity, filtration efficiency and particle handling. The tables are also Typo, influenced by worldwide observations of filters used in a wide range of applications.

Disc Filtration		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Micron	200	100%	90%	80%	70%	60%
	130	100%	87.5%	75%	62.5%	50%
	100	100%	85%	70%	55%	40%

Sand Media Systems		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Micron	200	100%	95%	90%	85%	80%
	130	100%	92%	85%	77.5%	70%
	100	100%	90%	80%	70%	60%

Screen Filtration		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Micron	200	100%	85%	75%	65%	55%
	130	100%	80%	67.5%	55%	42.5%
	100	100%	75%	60%	45%	30%

Example: A pump that deliver 220 m³/h with 100 Micron discs and considered 'AVERAGE' water quality would have a maximum recommended flow rate of 70% of 'EXCELLENT' which equals 160 m³/h **

** Note: Maximum Recommended flow rate depends on water quality.

Disc Filtration

Disc filters are used with surface water systems, wells or municipal water sources.

These filters are comprised of a series of grooved plastic discs stacked together with a total equivalent screen size ranging from 75 to 400 Micron.

These filters enable deep three-dimensional filtering (e.g. allow entrapping of more particles as water passes through the pores created by the grooves in the surfaces of the filtering discs stacked together in the filter). Having more surface area than screen filters, disc filters are better suited for higher flow rates.



Disc Filtration		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Micron	200	100%	90%	80%	70%	60%
	130	100%	87.5%	75%	62.5%	50%
	100	100%	85%	70%	55%	40%

→ Compact™ (m³/h)

Standard	200	130	100
Excellent	18	18	17
Good	16	15	14
Average	15	14	12
Poor	13	12	10
Very Poor	12	10	8

Low Flow	200	130	100
Excellent	11	11	10
Good	10	9	8
Average	9	8	7
Poor	8	7	6
Very Poor	7	6	5



→ 2" SpinKlin™ (m³/h)

2"x2	200	130	100
Excellent	36	36	36
Good	33	32	31
Average	29	27	25
Poor	25	23	20
Very Poor	22	18	15

2"x3	200	130	100
Excellent	54	54	54
Good	49	48	46
Average	44	41	38
Poor	38	34	30
Very Poor	33	27	22

2"x4	200	130	100
Excellent	73	73	73
Good	65	64	62
Average	58	54	51
Poor	51	45	40
Very Poor	44	36	29



→ 3" Spinklin™ (m³/h)

3"x3	200	130	100
Excellent	109	109	109
Good	98	95	93
Average	87	82	76
Poor	76	68	60
Very Poor	65	54	44

3"x4	200	130	100
Excellent	145	145	145
Good	131	127	123
Average	116	109	102
Poor	102	91	80
Very Poor	87	73	58

3"x5	200	130	100
Excellent	182	182	182
Good	163	159	154
Average	145	136	127
Poor	127	114	100
Very Poor	109	91	73



→ Apollo™ (m³/h)

Apollo™ 3	200	130	100
Excellent	270	270	270
Good	243	236	229
Average	216	202	189
Poor	189	169	148
Very Poor	162	135	108

Apollo™ 4	200	130	100
Excellent	360	360	360
Good	324	315	306
Average	288	270	252
Poor	252	225	198
Very Poor	216	180	144

Apollo™ 5	200	130	100
Excellent	450	450	450
Good	405	393	382
Average	360	337	315
Poor	315	281	247
Very Poor	270	225	180

Apollo™ 6	200	130	100
Excellent	540	540	540
Good	485	472	459
Average	432	405	378
Poor	378	337	297
Very Poor	324	270	216

Apollo™ 7	200	130	100
Excellent	630	630	630
Good	566	550	535
Average	503	472	440
Poor	440	393	346
Very Poor	378	315	252

Apollo™ 8	200	130	100
Excellent	719	719	719
Good	647	629	611
Average	575	539	503
Poor	503	449	395
Very Poor	432	360	288



→ AlphaDisc™ (m³/h)

AD 3	200	130	100
Excellent	50	50	50
Good	45	44	42
Average	40	37	35
Poor	35	31	27
Very Poor	30	25	20

AD 3XL	200	130	100
Excellent	80	80	80
Good	72	70	68
Average	64	60	56
Poor	56	50	44
Very Poor	48	40	32

AD DUO XL	200	130	100
Excellent	218	218	218
Good	196	191	185
Average	174	163	153
Poor	153	136	120
Very Poor	131	109	87

AD TRIO XL	200	130	100
Excellent	327	327	327
Good	294	286	278
Average	262	245	229
Poor	229	204	180
Very Poor	196	163	131

AD 4XL	200	130	100
Excellent	110	110	110
Good	98	95	93
Average	87	82	76
Poor	76	68	60
Very Poor	65	54	44



→ Alphapollo™ (m³/h)

AP 3X10"	200	130	100
Excellent	327	327	327
Good	294	286	278
Average	262	245	229
Poor	229	204	180
Very Poor	196	163	131

AP 4X10"	200	130	100
Excellent	436	436	436
Good	392	381	370
Average	349	327	305
Poor	305	272	240
Very Poor	262	218	174

AP 5X10"	200	130	100
Excellent	545	545	545
Good	490	477	463
Average	436	409	381
Poor	381	341	300
Very Poor	327	272	218

AP 6X10"	200	130	100
Excellent	654	654	654
Good	588	572	556
Average	523	490	458
Poor	458	409	360
Very Poor	392	327	262

AP 7X10"	200	130	100
Excellent	763	763	763
Good	686	667	648
Average	610	572	534
Poor	534	477	419
Very Poor	458	381	305

AP 8X10"	200	130	100
Excellent	872	872	872
Good	785	763	741
Average	697	654	610
Poor	610	545	479
Very Poor	523	436	350

AP 8X12"	200	130	100
Excellent	872	872	872
Good	785	763	741
Average	697	654	610
Poor	610	545	479
Very Poor	523	436	349

AP 9X12"	200	130	100
Excellent	981	981	981
Good	883	858	834
Average	785	735	686
Poor	686	613	539
Very Poor	588	490	392

AP 10X12"	200	130	100
Excellent	1090	1090	1090
Good	981	953	926
Average	872	817	763
Poor	763	681	599
Very Poor	654	545	436

Not recommended, High Velocity in manifolds



Gravel Media Filtration

Media filters (gravel or sand) are necessary for any surface water source and especially so for wastewater. They consist of a metal or plastic enclosure incorporating small gravel stones or sand, which traps the dirt. This filter includes a flushing system for washing the gravel or sand and returning the dirt to the water source.



Gravel Media Systems	Water Quality				
	Excellent	Good	Average	Poor	Very Poor
Basalt 1 / Silica 1	100%	92.5%	85%	77.5%	70%

→ SandStorm™ (16",20",24") (m³/h)

water quality	Basalt 1 / Silica 1				
	2X16"	2X20"	3X20"	2X24"	3X24"
Excellent	18	30	45	45	65
Good	17	28	42	40	60
Average	16	25	38	37	56
Poor	15	23	35	34	51
Very Poor	14	21	32	30	46



→ SandStorm™ (30"- 36") (m³/h)

water quality	Basalt 1 / Silica 1					
	2X30"	3X30"	4X30"	2X36"	3X36"	4X36"
Excellent	64	95	127	94	141	188
Good	60	90	120	90	135	180
Average	54	81	108	80	120	160
Poor	49	74	99	76	114	152
Very Poor	44	67	89	72	108	144



→ SandStorm™ (48") (m³/h)

water quality	Basalt 1 / Silica 1							
	2X48"	3X48"	4X48"	5X48" *	6X48" *	7X48" *	8X48" *	10X48" *
Excellent	174	261	348	435	522	609	696	870
Good	160	240	320	400	480	560	640	800
Average	148	222	296	370	444	518	592	740
Poor	136	204	272	340	408	476	544	680
Very Poor	126	189	252	315	378	441	504	630

* Do Not Exceed 4 tanks on a Manifold Leg

→ SandStorm™ NC (36") (m³/h)

water quality	Basalt 1 / Silica 1		
	NC 2X36"	NC 3X36"	NC 4X36"
Excellent	94	141	188
Good	90	135	180
Average	80	120	160
Poor	76	114	152
Very Poor	72	108	144



→ SandStorm™ NC (48") (m³/h)

water quality	Basalt 1 / Silica 1							
	NC 2X48"	NC 3X48"	NC 4X48"	NC 5X48" *	NC 6X48" *	NC 7X48" *	NC 8X48" *	NC 10X48" *
Excellent	174	261	348	435	522	609	696	870
Good	160	240	320	400	480	560	640	800
Average	148	222	296	370	444	518	592	740
Poor	136	204	272	340	408	476	544	680
Very Poor	126	189	252	315	378	441	504	630

* Do Not Exceed 4 tanks on a Manifold Leg

Screen Filtration

Screen filters are used mainly as secondary filters with surface water systems or as primary filters with well or municipal water sources. A screen filter is comprised of a cylinder with a net that traps the dirt. This filter is intended for relatively clean water; its use is less common with water from a reservoir or pumped water.



Screen Filtration		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Micron	200	100%	85%	75%	65%	55%
	130	100%	80%	67.5%	55%	42.5%
	100	100%	75%	60%	45%	30%

→ ScreenGuard™ Vertical (m³/h)

SGV 2"	200	130	100
Excellent	25	25	25
Good	21	20	19
Average	19	17	15
Poor	16	14	11
Very Poor	14	11	7

SGV 3"	200	130	100
Excellent	35	35	35
Good	30	28	26
Average	26	24	21
Poor	23	19	16
Very Poor	19	15	11

SGV 3"S	200	130	100
Excellent	50	50	50
Good	42	40	37
Average	37	34	30
Poor	32	27	22
Very Poor	27	21	15

SGV 4"	200	130	100
Excellent	75	75	75
Good	64	60	56
Average	56	51	45
Poor	49	41	34
Very Poor	41	32	22

SGV 4"S	200	130	100
Excellent	80	80	80
Good	68	64	60
Average	60	54	48
Poor	52	44	36
Very Poor	44	34	24

SGV 6"	200	130	100
Excellent	100	100	100
Good	85	80	75
Average	75	67	60
Poor	65	55	45
Very Poor	55	42	30



→ ScreenGuard™ Horizontal (m³/h)

SGH 4"	200	130	100
Excellent	79	79	79
Good	68	64	60
Average	60	54	48
Poor	52	44	36
Very Poor	44	34	24

SGH 4"S	200	130	100
Excellent	100	100	100
Good	85	80	75
Average	75	67	60
Poor	65	55	45
Very Poor	55	42	30

SGH 6"	200	130	100
Excellent	120	120	120
Good	102	96	90
Average	90	81	72
Poor	78	66	54
Very Poor	66	51	36

SGH 6"S	200	130	100
Excellent	150	150	150
Good	127	120	112
Average	112	101	90
Poor	97	82	67
Very Poor	82	64	45

SGH 8"	200	130	100
Excellent	250	250	250
Good	212	200	187
Average	187	169	150
Poor	162	137	112
Very Poor	137	106	75

SGH 10"	200	130	100
Excellent	300	300	300
Good	255	240	225
Average	225	202	180
Poor	195	165	135
Very Poor	165	127	90



→ ScreenGuard™ Twins (m³/h)

TWIN 8"	200	130	100
Excellent	500	500	500
Good	424	400	375
Average	375	337	300
Poor	325	275	225
Very Poor	275	212	150

TWIN 10"	200	130	100
Excellent	600	600	600
Good	509	479	449
Average	449	405	360
Poor	390	330	270
Very Poor	330	255	180



Filtration Using 200 Micron - Disc

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
Disc	Micron	200	100%	90%	80%	70%	60%

→ SpinKlin™ (m³/h)

200 Micron	2"X2	2"X3	2"X4	3"X3	3"X4	3"X5
Excellent	36	54	73	109	145	800
Good	33	49	65	98	131	720
Average	29	44	58	87	116	640
Poor	25	38	51	76	102	560
Very Poor	22	33	44	65	87	480

→ Apollo™ (m³/h)

200 Micron	Apollo™ 3	Apollo™ 4	Apollo™ 5	Apollo™ 6	Apollo™ 7	Apollo™ 8
Excellent	270	360	449	539	629	3168
Good	243	324	405	485	566	2851
Average	216	288	360	432	503	2534
Poor	189	252	315	378	440	2218
Very Poor	162	216	270	324	378	1901

→ AlphaDisc™ (m³/h)

200 Micron	AD 3	AD 3XL	AD 4XL	AD Duo XL	AD Trio XL
Excellent	50	80	109	218	327
Good	45	72	98	196	294
Average	40	64	87	174	262
Poor	35	56	76	153	229
Very Poor	30	48	65	131	196

→ Alphapollo™ 10" (m³/h)

200 Micron	AP 3X10"	AP 4X10"	AP 5X10"	AP 6X10"	AP 7X10"	AP 8X10"
Excellent	327	436	545	654	763	872
Good	294	392	490	588	686	785
Average	262	349	436	523	610	697
Poor	229	305	381	458	534	610
Very Poor	196	262	327	392	458	523



Not recommended, High Velocity in manifolds

→ Alphapollo™ 12" (m³/h)

AP 8X12"	AP 9X12"	AP 10X12"
872	981	1090
785	883	981
697	785	872
610	686	763
523	588	654

Filtration Using 200 Micron - Screen

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
ScreenGuard	Micron	200	100%	85%	75%	65%	55%

→ ScreenGuard™ Vertical (m³/h)

200 Micron	SGV 2"	SGV 3"	SGV 3"S	SGV 4"	SGV 4"S	SGV 6"
Excellent	25	35	50	75	79	100
Good	21	30	42	64	68	85
Average	19	26	37	56	60	75
Poor	16	23	32	49	52	65
Very Poor	14	19	27	41	44	55

→ ScreenGuard™ Horizontal (m³/h)

200 Micron	SGH 4"	SGH 4"S	SGH 6"	SGH 6"S	SGH 8"	SGH 10"
Excellent	79	100	120	150	250	300
Good	68	85	102	127	212	255
Average	60	75	90	112	187	225
Poor	52	65	78	97	162	195
Very Poor	44	55	66	82	137	165

→ ScreenGuard™ Twins (m³/h)

200 Micron	TWIN 8"	TWIN 10"
Excellent	500	600
Good	424	509
Average	375	449
Poor	325	390
Very Poor	275	330



Filtration Using 130 Micron - Disc

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
Disc	Micron	130	100%	87.5%	75%	62.5%	50%

→ SpinKlin™ (m³/h)

130 Micron	2"X2	2"X3	2"X4	3"X3	3"X4	3"X5
Excellent	36	54	73	109	145	182
Good	32	48	64	95	127	159
Average	27	41	54	82	109	136
Poor	23	34	45	68	91	114
Very Poor	18	27	36	54	73	91

→ Apollo™ (m³/h)

130 Micron	Apollo 3	Apollo 4	Apollo 5	Apollo 6	Apollo 7	Apollo 8
Excellent	270	360	449	539	629	719
Good	236	315	393	472	551	629
Average	202	270	337	405	472	539
Poor	169	225	281	337	393	449
Very Poor	135	180	225	270	315	360

→ AlphaDisc™ (m³/h)

130 Micron	AD 3	AD 3XL	AD 4XL	AD Duo XL	AD Trio XL
Excellent	50	80	109	218	327
Good	44	70	95	191	286
Average	37	60	82	163	245
Poor	31	50	68	136	204
Very Poor	25	40	54	109	163

→ Alphapollo™ 10" (m³/h)

130 Micron	AP 3X10"	AP 4X10"	AP 5X10"	AP 6X10"	AP 7X10"	AP 8X10"
Excellent	327	436	545	654	763	872
Good	286	381	477	572	667	785
Average	245	327	409	490	572	697
Poor	204	272	341	409	477	610
Very Poor	163	218	272	327	381	523

→ Alphapollo 12" (m³/h)

AP 8X12"	AP 9X12"	AP 10X12"
872	981	1090
763	858	953
654	735	817
545	613	681
436	490	545

Not recommended, High Velocity in manifolds



Filtration Using Basalt 1/Silica 1 Media

Gravel Media Systems	Water Quality				
	Excellent	Good	Average	Poor	Very Poor
Basalt 1 / Silica 1	100%	92.5%	85%	77.5%	70%

→ SandStorm™ (16",20",24") (m³/h)

water quality	Basalt 1 / Silica 1				
	2X16"	2X20"	3X20"	2X24"	3X24"
Excellent	18	30	45	45	65
Good	17	28	42	40	60
Average	16	25	38	37	56
Poor	15	23	35	34	51
Very Poor	14	21	32	30	46

→ SandStorm™ (30" - 36") (m³/h)

water quality	Basalt 1 / Silica 1					
	2X30"	3X30"	4X30"	2X36"	3X36"	4X36"
Excellent	64	95	127	94	141	188
Good	60	90	120	90	135	180
Average	54	81	108	80	120	160
Poor	49	74	99	76	114	152
Very Poor	44	67	89	72	108	144

→ SandStorm™ (48") (m³/h)

water quality	Basalt 1 / Silica 1							
	2X48"	3X48"	4X48"	5X48" *	6X48" *	7X48" *	8X48" *	10X48" *
Excellent	174	261	348	435	522	609	696	870
Good	160	240	320	400	480	560	640	800
Average	148	222	296	370	444	518	592	740
Poor	136	204	272	340	408	476	544	680
Very Poor	126	189	252	315	378	441	504	630



→ SandStorm™ NC (36") (m³/h)

water quality	Basalt 1 / Silica 1		
	NC 2X36"	NC 3X36"	NC 4X36"
Excellent	94	141	188
Good	90	135	180
Average	80	120	160
Poor	76	114	152
Very Poor	72	108	144

→ SandStorm™ NC (48") (m³/h)

water quality	Basalt 1 / Silica 1							
	NC 2X48"	NC 3X48"	NC 4X48"	NC 5X48" *	NC 6X48" *	NC 7X48" *	NC 8X48" *	NC 10X48" *
Excellent	174	261	348	435	522	609	696	870
Good	160	240	320	400	480	560	640	800
Average	148	222	296	370	444	518	592	740
Poor	136	204	272	340	408	476	544	680
Very Poor	126	189	252	315	378	441	504	630

* Do Not Exceed 4 tanks on a Manifold Leg



Filtration Using 130 Micron - Screen

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
ScreenGuard	Micron	130	100%	80%	67.5%	55%	42.5%

→ ScreenGuard™ Vertical (m³/h)

130 Micron	SGV 2"	SGV 3"	SGV 3"S	SGV 4"	SGV 4"S	SGV 6"
Excellent	25	35	50	75	79	100
Good	20	28	40	60	64	80
Average	17	24	34	51	54	67
Poor	14	19	27	41	44	55
Very Poor	11	15	21	32	34	42

→ ScreenGuard™ Horizontal (m³/h)

130 Micron	SGH 4"	SGH 4"S	SGH 6"	SGH 6"S	SGH 8"	SGH 10"
Excellent	79	100	120	150	250	300
Good	64	80	96	120	200	240
Average	54	67	81	101	169	202
Poor	44	55	66	82	137	165
Very Poor	34	42	51	64	106	127

→ ScreenGuard™ Twins (m³/h)

130 Micron	TWIN 8"	TWIN 10"
Excellent	500	600
Good	400	480
Average	337	405
Poor	275	330
Very Poor	212	255



Filtration Using 100 Micron - Disc

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
Disc	Micron	100	100%	85%	70%	55%	40%

→ SpinKlin™ (m³/h)

100 Micron	2"X2	2"X3	2"X4	3"X3	3"X4	3"X5
Excellent	36	54	73	109	145	182
Good	31	46	62	93	123	154
Average	25	38	51	76	102	127
Poor	20	30	40	60	80	100
Very Poor	15	22	29	44	58	73

→ Apollo™ (m³/h)

100 Micron	Apollo 3	Apollo 4	Apollo 5	Apollo 6	Apollo 7	Apollo 8
Excellent	270	360	449	539	629	719
Good	229	306	382	459	535	611
Average	189	252	315	378	440	503
Poor	148	198	247	297	346	395
Very Poor	108	144	180	216	252	288

→ AlphaDisc™ (m³/h)

100 Micron	AD 3	AD 3XL	AD 4XL	AD Duo XL	AD Trio XL
Excellent	50	80	109	218	327
Good	42	68	93	185	278
Average	35	56	76	153	229
Poor	27	44	60	120	180
Very Poor	20	32	44	87	131

→ Alphapollo™ 10" (m³/h)

100 Micron	AP 3X10"	AP 4X10"	AP 5X10"	AP 6X10"	AP 7X10"	AP 8X10"
Excellent	327	436	545	654	763	872
Good	278	370	463	556	648	741
Average	229	305	381	458	534	610
Poor	180	240	300	360	419	479
Very Poor	131	174	218	262	305	349

→ Alphapollo™ 12" (m³/h)

AP 8X12"	AP 9X12"	AP 10X12"
872	981	1090
741	834	926
610	686	763
479	539	599
349	392	436

Not recommended, High Velocity in manifolds



Filtration Using 100 Micron - Screen

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
ScreenGuard	Micron	100	100%	75%	60%	45%	30%

→ ScreenGuard™ Vertical (m³/h)

100 Micron	SGV 2"	SGV 3"	SGV 3"S	SGV 4"	SGV 4"S	SGV 6"
Excellent	25	35	50	75	80	100
Good	19	26	37	56	60	75
Average	15	21	30	45	48	60
Poor	11	16	22	34	36	45
Very Poor	7	11	15	22	24	30

→ ScreenGuard™ Horizontal (m³/h)

100 Micron	SGH 4"	SGH 4"S	SGH 6"	SGH 6"S	SGH 8"	SGH 10"
Excellent	80	100	120	150	250	300
Good	60	75	90	112	187	225
Average	48	60	72	90	150	180
Poor	36	45	54	67	112	135
Very Poor	24	30	36	45	75	90

→ ScreenGuard™ Twins (m³/h)

100 Micron	TWIN 8"	TWIN 10"
Excellent	500	600
Good	375	449
Average	300	360
Poor	225	270
Very Poor	150	180





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