



Precision
Agriculture



Filtration Flow Rate

/ Based on Water
Quality





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 its 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 influenced by worldwide observations of filter used in a wide range of applications.

Disc Filtration		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Mesh	80	100.00%	90.00%	80.00%	70.00%	60.00%
	120	100.00%	87.50%	75.00%	62.50%	50.00%
	140	100.00%	85.00%	70.00%	55.00%	40.00%

Sand Media Systems		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Mesh	80	100.00%	95.00%	90.00%	85.00%	80.00%
	120	100.00%	92.50%	85.00%	77.50%	70.00%
	150	100.00%	90.00%	80.00%	70.00%	60.00%

Screen Filtration		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Mesh	80	100.00%	85.00%	75.00%	65.00%	55.00%
	120	100.00%	80.00%	67.50%	55.00%	42.50%
	150	100.00%	75.00%	60.00%	45.00%	30.00%

** Note: Maximum Recommended flow rate depends on water quality. Example: A pump that deliver 1000 gpm with 140 mesh discs and considered 'AVERAGE' water quality would have a maximum recommended flow rate of 70% of 'EXCELLENT' which equals 700 gpm **

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 40 to 400mesh. 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
Mesh	80	100.00%	90.00%	80.00%	70.00%	60.00%
	120	100.00%	87.50%	75.00%	62.50%	50.00%
	140	100.00%	85.00%	70.00%	55.00%	40.00%

→ Compact (gpm)

Standard	80	120	140
Excellent	80	80	70
Good	72	70	60
Average	65	61	51
Poor	59	53	43
Very Poor	53	46	37

Low Flow	80	120	140
Excellent	50	50	40
Good	45	44	34
Average	41	39	29
Poor	37	34	25
Very Poor	33	30	21



→ 2" Disc Kleen (gpm)

DK 2x2	80	120	140
Excellent	160	160	160
Good	144	140	136
Average	128	120	112
Poor	112	100	88
Very Poor	96	80	64

DK 2x3	80	120	140
Excellent	240	240	240
Good	216	210	204
Average	192	180	168
Poor	168	150	132
Very Poor	144	120	96

DK 2x4	80	120	140
Excellent	320	320	320
Good	288	280	272
Average	256	240	224
Poor	224	200	176
Very Poor	192	160	128



→ 3" Disc Kleen (gpm)

DK 3x3	80	120	140
Excellent	480	480	480
Good	432	420	408
Average	384	360	336
Poor	336	300	264
Very Poor	288	240	192

DK 3x4	80	120	140
Excellent	640	640	640
Good	576	560	544
Average	512	480	448
Poor	448	400	352
Very Poor	384	320	256

DK 3x5	80	120	140
Excellent	800	800	800
Good	720	700	680
Average	640	600	560
Poor	560	500	440
Very Poor	480	400	320



→ Apollo (gpm)

Apollo 3	80	120	140
Excellent	1188	1188	1188
Good	1069	1040	1010
Average	950	891	832
Poor	832	743	653
Very Poor	713	594	475

Apollo 4	80	120	140
Excellent	1584	1584	1584
Good	1426	1386	1346
Average	1267	1188	1109
Poor	1109	990	871
Very Poor	950	792	634

Apollo 5	80	120	140
Excellent	1980	1980	1980
Good	1782	1733	1683
Average	1584	1485	1386
Poor	1386	1238	1089
Very Poor	1188	990	792

Apollo 6	80	120	140
Excellent	2376	2376	2376
Good	2138	2079	2020
Average	1901	1782	1663
Poor	1663	1485	1307
Very Poor	1426	1188	950

Apollo 7	80	120	140
Excellent	2772	2772	2772
Good	2495	2426	2356
Average	2218	2079	1940
Poor	1940	1733	1525
Very Poor	1663	1386	1109

Apollo 8	80	120	140
Excellent	3168	3168	3168
Good	2851	2772	2693
Average	2534	2376	2218
Poor	2218	1980	1742
Very Poor	1901	1584	1267

→ Alpha Disc (gpm)

AD 3	80	120	140
Excellent	220	220	220
Good	198	193	187
Average	176	165	154
Poor	154	138	121
Very Poor	132	110	88

AD 3XL	80	120	140
Excellent	352	352	352
Good	317	308	299
Average	282	264	246
Poor	246	220	194
Very Poor	211	176	141



AD DUO XL	80	120	140
Excellent	960	960	960
Good	864	840	816
Average	768	720	672
Poor	672	600	528
Very Poor	576	480	384

AD TRIO XL	80	120	140
Excellent	1440	1440	1440
Good	1296	1260	1224
Average	1152	1080	1008
Poor	1008	900	792
Very Poor	864	720	576

AD 4XL	80	120	140
Excellent	480	480	480
Good	432	420	408
Average	384	360	336
Poor	336	300	264
Very Poor	288	240	192



→ Alphapollo (gpm)

AP 310	80	120	140
Excellent	1440	1440	1440
Good	1296	1260	1224
Average	1152	1080	1008
Poor	1008	900	792
Very Poor	864	720	576

AP 410	80	120	140
Excellent	1920	1920	1920
Good	1728	1680	1632
Average	1536	1440	1344
Poor	1344	1200	1056
Very Poor	1152	960	768

AP 510	80	120	140
Excellent	2400	2400	2400
Good	2160	2100	2040
Average	1920	1800	1680
Poor	1680	1500	1320
Very Poor	1440	1200	960

AP 610	80	120	140
Excellent	2880	2880	2880
Good	2592	2520	2448
Average	2304	2160	2016
Poor	2016	1800	1584
Very Poor	1728	1440	1152

AP 710	80	120	140
Excellent	3360	3360	3360
Good	3024	2940	2856
Average	2688	2520	2352
Poor	2352	2100	1848
Very Poor	2016	1680	1344

AP 810	80	120	140
Excellent	3840	3840	3840
Good	3456	3360	3264
Average	3072	2880	2688
Poor	2688	2400	2112
Very Poor	2304	1920	1536

AP 812	80	120	140
Excellent	3840	3840	3840
Good	3456	3360	3264
Average	3072	2880	2688
Poor	2688	2400	2112
Very Poor	2304	1920	1536

AP 912	80	120	140
Excellent	4320	4320	4320
Good	3888	3780	3672
Average	3456	3240	3024
Poor	3024	2700	2376
Very Poor	2592	2160	1728

AP 1012	80	120	140
Excellent	4800	4800	4800
Good	4320	4200	4080
Average	3840	3600	3360
Poor	3360	3000	2640
Very Poor	2880	2400	1920

Not recommended, High Velocity in manifolds

Sand 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.



Sand Media Systems		Water Quality				
		Excellent	Good	Average	Poor	Very Poor
Mesh	80	100.00%	95.00%	90.00%	85.00%	80.00%
	120	100.00%	92.50%	85.00%	77.50%	70.00%
	150	100.00%	90.00%	80.00%	70.00%	60.00%

Mesh	Media Type
80	Crushed Silica 12
120	Crushed Silica 16
150	Crushed Silica 20



→ Sandstorm Double Chamber (16",20",24") (gpm)

DBL 216	80	120	150
Excellent	52	52	52
Good	49	48	47
Average	47	44	42
Poor	44	40	36
Very Poor	42	36	31

DBL 220	80	120	150
Excellent	132	132	132
Good	125	122	119
Average	119	112	106
Poor	112	102	92
Very Poor	106	92	79

DBL 320	80	120	150
Excellent	198	198	198
Good	188	183	178
Average	178	168	158
Poor	168	153	139
Very Poor	158	139	119

DBL 224	80	120	150
Excellent	192	192	192
Good	182	178	173
Average	173	163	154
Poor	163	149	134
Very Poor	154	134	115

DBL 324	80	120	150
Excellent	288	288	288
Good	274	266	259
Average	259	245	230
Poor	245	223	202
Very Poor	230	202	173



→ Sandstorm Single Chamber (30" - 36") (gpm)

SNG 230	80	120	150
Excellent	280	280	280
Good	266	259	252
Average	252	238	224
Poor	238	217	196
Very Poor	224	196	168

SNG 330	80	120	150
Excellent	420	420	420
Good	399	389	378
Average	378	357	336
Poor	357	326	294
Very Poor	336	294	252

SNG 430	80	120	150
Excellent	560	560	560
Good	532	518	504
Average	504	476	448
Poor	476	434	392
Very Poor	448	392	336

SNG 236	80	120	150
Excellent	420	420	420
Good	399	389	378
Average	378	357	336
Poor	357	326	294
Very Poor	336	294	252

SNG 336	80	120	150
Excellent	630	630	630
Good	599	583	567
Average	567	536	504
Poor	536	488	441
Very Poor	504	441	378

SNG 436	80	120	150
Excellent	840	840	840
Good	798	777	756
Average	756	714	672
Poor	714	651	588
Very Poor	672	588	504

→ Sandstorm Single Chamber (48") (gpm)

SNG 248	80	120	150
Excellent	750	750	750
Good	713	694	675
Average	675	638	600
Poor	638	581	525
Very Poor	600	525	450

SNG 348	80	120	150
Excellent	1125	1125	1125
Good	1069	1041	1013
Average	1013	956	900
Poor	956	872	788
Very Poor	900	788	675



SNG 448	80	120	150
Excellent	1500	1500	1500
Good	1425	1388	1350
Average	1350	1275	1200
Poor	1275	1163	1050
Very Poor	1200	1050	900

SNG 548*	80	120	150
Excellent	1875	1875	1875
Good	1781	1734	1688
Average	1688	1594	1500
Poor	1594	1453	1313
Very Poor	1500	1313	1125

SNG 648*	80	120	150
Excellent	2250	2250	2250
Good	2138	2081	2025
Average	2025	1913	1800
Poor	1913	1744	1575
Very Poor	1800	1575	1350

SNG 748*	80	120	150
Excellent	2625	2625	2625
Good	2494	2428	2363
Average	2363	2231	2100
Poor	2231	2034	1838
Very Poor	2100	1838	1575

SNG 848*	80	120	150
Excellent	3000	3000	3000
Good	2850	2775	2700
Average	2700	2550	2400
Poor	2550	2325	2100
Very Poor	2400	2100	1800

SNG 1048*	80	120	150
Excellent	3750	3750	3750
Good	3563	3469	3375
Average	3375	3188	3000
Poor	3188	2906	2625
Very Poor	3000	2625	2250



→ Sandstorm NC Single Chamber (36") (gpm)

NC 236	80	120	150
Excellent	396	396	396
Good	376	366	356
Average	356	337	317
Poor	337	307	277
Very Poor	317	277	238

NC 336	80	120	150
Excellent	594	594	594
Good	564	549	535
Average	535	505	475
Poor	505	460	416
Very Poor	475	416	356

NC 436	80	120	150
Excellent	792	792	792
Good	752	733	713
Average	713	673	634
Poor	673	614	554
Very Poor	634	554	475

→ Sandstorm NC Single Chamber (48") (gpm)

NC 248	80	120	150
Excellent	700	700	700
Good	665	648	630
Average	630	595	560
Poor	595	543	490
Very Poor	560	490	420

NC 348	80	120	150
Excellent	1050	1050	1050
Good	998	971	945
Average	945	893	840
Poor	893	814	735
Very Poor	840	735	630



NC 448	80	120	150
Excellent	1400	1400	1400
Good	1330	1295	1260
Average	1260	1190	1120
Poor	1190	1085	980
Very Poor	1120	980	840

NC 548*	80	120	150
Excellent	1750	1750	1750
Good	1663	1619	1575
Average	1575	1488	1400
Poor	1488	1356	1225
Very Poor	1400	1225	1050

NC 648*	80	120	150
Excellent	2100	2100	2100
Good	1995	1943	1890
Average	1890	1785	1680
Poor	1785	1628	1470
Very Poor	1680	1470	1260

NC 748*	80	120	150
Excellent	2450	2450	2450
Good	2328	2266	2205
Average	2205	2083	1960
Poor	2083	1899	1715
Very Poor	1960	1715	1470

NC 848*	80	120	150
Excellent	2800	2800	2800
Good	2660	2590	2520
Average	2520	2380	2240
Poor	2380	2170	1960
Very Poor	2240	1960	1680

NC 1048*	80	120	150
Excellent	3500	3500	3500
Good	3325	3238	3150
Average	3150	2975	2800
Poor	2975	2713	2450
Very Poor	2800	2450	2100

*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
Mesh	80	100.00%	85.00%	75.00%	65.00%	55.00%
	120	100.00%	80.00%	67.50%	55.00%	42.50%
	150	100.00%	75.00%	60.00%	45.00%	30.00%



→ Screenguard Vertical (gpm)

SGV2	80	120	150
Excellent	110	110	110
Good	94	88	83
Average	83	74	66
Poor	72	61	50
Very Poor	61	47	33

SGV3	80	120	140
Excellent	155	155	155
Good	132	124	116
Average	116	105	93
Poor	101	85	70
Very Poor	85	66	47

SGV3S	80	120	140
Excellent	220	220	220
Good	187	176	165
Average	165	149	132
Poor	143	121	99
Very Poor	121	94	66

SGV4	80	120	140
Excellent	330	330	330
Good	281	264	248
Average	248	223	198
Poor	215	182	149
Very Poor	182	140	99

SGV4S	80	120	140
Excellent	350	350	350
Good	298	280	263
Average	263	236	210
Poor	228	193	158
Very Poor	193	149	105

SGV6	80	120	140
Excellent	440	440	440
Good	374	352	330
Average	330	297	264
Poor	286	242	198
Very Poor	242	187	132



→ Screenguard Horizontal (gpm)

SGH4	80	120	150
Excellent	350	350	350
Good	298	280	263
Average	263	236	210
Poor	228	193	158
Very Poor	193	149	105

SGH4S	80	120	140
Excellent	440	440	440
Good	374	352	330
Average	330	297	264
Poor	286	242	198
Very Poor	242	187	132

SGH6	80	120	140
Excellent	530	530	530
Good	451	424	398
Average	398	358	318
Poor	345	292	239
Very Poor	292	225	159

SGH6S	80	120	140
Excellent	660	660	660
Good	561	528	495
Average	495	446	396
Poor	429	363	297
Very Poor	363	281	198

SGH8	80	120	140
Excellent	1100	1100	1100
Good	935	880	825
Average	825	743	660
Poor	715	605	495
Very Poor	605	468	330

SGH10	80	120	140
Excellent	1320	1320	1320
Good	1122	1056	990
Average	990	891	792
Poor	858	726	594
Very Poor	726	561	396



→ Screenguard Twins (gpm)

TWIN8	80	120	150
Excellent	2200	2200	2200
Good	1870	1760	1650
Average	1650	1485	1320
Poor	1430	1210	990
Very Poor	1210	935	660

TWIN10	80	120	140
Excellent	2640	2640	2640
Good	2244	2112	1980
Average	1980	1782	1584
Poor	1716	1452	1188
Very Poor	1452	1122	792

Filtration Using 80 Mesh - Disc

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
Disc	Mesh	80	100.00%	90.00%	80.00%	70.00%	60.00%

→ Disc-Kleen (gpm)

80 Mesh	DK 2X2	DK 2X3	DK 2X4	DK 3X3	DK 3X4	DK 3X5
Excellent	160	240	320	480	640	800
Good	144	216	288	432	576	720
Average	128	192	256	384	512	640
Poor	112	168	224	336	448	560
Very Poor	96	144	192	288	384	480

→ Apollo (gpm)

80 Mesh	Apollo3	Apollo4	Apollo5	Apollo6	Apollo7	Apollo8
Excellent	1188	1584	1980	2376	2772	3168
Good	1069	1426	1782	2138	2495	2851
Average	950	1267	1584	1901	2218	2534
Poor	832	1109	1386	1663	1940	2218
Very Poor	713	950	1188	1426	1663	1901

→ AlphaDisc (gpm)

80 Mesh	AD3	AD3XL	AD4XL	ADDuoXL	ADTrioXL
Excellent	220	352	480	960	1440
Good	198	317	432	864	1296
Average	176	282	384	768	1152
Poor	154	246	336	672	1008
Very Poor	132	211	288	576	864

→ Alphaspollo 10 (gpm)

80 Mesh	AP 310	AP 410	AP 510	AP 610	AP 710	AP 810
Excellent	1440	1920	2400	2880	3360	3840
Good	1296	1728	2160	2592	3024	3456
Average	1152	1536	1920	2304	2688	3072
Poor	1008	1344	1680	2016	2352	2688
Very Poor	864	1152	1440	1728	2016	2304

→ Alphaspollo 12 (gpm)

AP 812	AP 912	AP 1012
3840	4320	4800
3456	3888	4320
3072	3456	3840
2688	3024	3360
2304	2592	2880

 Not recommended, High Velocity in manifolds

Filtration Using 80 Mesh - Sand

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
SandStorm	Mesh	80	100.00%	95.00%	90.00%	85.00%	80.00%

→ Sandstorm Double Chamber (16",20",24")(gpm)

80 Mesh	DBL216	DBL220	DBL320	DBL224	DBL324
Excellent	52	132	198	192	288
Good	49	125	188	182	274
Average	47	119	178	173	259
Poor	44	112	168	163	245
Very Poor	42	106	158	154	230

→ Sandstorm Single Chamber (30" - 36")(gpm)

80 Mesh	SNG230	SNG330	SNG430	SNG236	SNG336	SNG436
Excellent	280	420	560	420	630	840
Good	266	399	532	399	599	798
Average	252	378	504	378	567	756
Poor	238	357	476	357	536	714
Very Poor	224	336	448	336	504	672



→ Sandstorm Single Chamber (48")(gpm)

80 Mesh	SNG248	SNG348	SNG448	SNG548*	SNG648*	SNG748*	SNG848*	SNG1048*
Excellent	750	1125	1500	1875	2250	2625	3000	3750
Good	713	1069	1425	1781	2138	2494	2850	3563
Average	675	1013	1350	1688	2025	2363	2700	3375
Poor	638	956	1275	1594	1913	2231	2550	3188
Very Poor	600	900	1200	1500	1800	2100	2400	3000

→ Sandstorm NC (36")(gpm) → Sandstorm NC (48") (gpm)

80 Mesh	NC236	NC336	NC436	NC248	NC348	NC448	NC548*	NC648*	NC748*	NC848*	NC1048*
Excellent	396	594	792	700	1050	1400	1750	2100	2450	2800	3500
Good	376	564	752	665	998	1330	1663	1995	2328	2660	3325
Average	356	535	713	630	945	1260	1575	1890	2205	2520	3150
Poor	337	505	673	595	893	1190	1488	1785	2083	2380	2975
Very Poor	317	475	634	560	840	1120	1400	1680	1960	2240	2800

*Do Not Exceed 4 tanks on a Manifold Leg

Filtration Using 80 Mesh - Screen

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
ScreenGuard	Mesh	80	100.00%	85.00%	75.00%	65.00%	55.00%

→ Screenguard Vertical (gpm)

80 Mesh	SGV2	SGV3	SGV3S	SGV4	SGV4S	SGV6
Excellent	110	155	220	330	350	440
Good	94	132	187	281	298	374
Average	83	116	165	248	263	330
Poor	72	101	143	215	228	286
Very Poor	61	85	121	182	193	242

→ Screenguard Horizontal (gpm)

80 Mesh	SGH4	SGH4S	SGH6	SGH6S	SGH8	SGH10
Excellent	350	440	530	660	1100	1320
Good	298	374	451	561	935	1122
Average	263	330	398	495	825	990
Poor	228	286	345	429	715	858
Very Poor	193	242	292	363	605	726

→ Screenguard Twins (gpm)

80 Mesh	TWIN8	TWIN10
Excellent	2200	2640
Good	1870	2244
Average	1650	1980
Poor	1430	1716
Very Poor	1210	1452



Filtration Using 120 Mesh - Disc

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
Disc	Mesh	120	100.00%	87.50%	75.00%	62.50%	50.00%

→ Disc-Kleen (gpm)

120 Mesh	DK 2X2	DK 2X3	DK 2X4	DK 3X3	DK 3X4	DK 3X5
Excellent	160	240	320	480	640	800
Good	140	210	280	420	560	700
Average	120	180	240	360	480	600
Poor	100	150	200	300	400	500
Very Poor	80	120	160	240	320	400



→ Apollo (gpm)

120 Mesh	Apollo3	Apollo4	Apollo5	Apollo6	Apollo7	Apollo8
Excellent	1188	1584	1980	2376	2772	3168
Good	1040	1386	1733	2079	2426	2772
Average	891	1188	1485	1782	2079	2376
Poor	743	990	1238	1485	1733	1980
Very Poor	594	792	990	1188	1386	1584



→ AlphaDisc (gpm)

120 Mesh	AD3	AD3XL	AD4XL	ADDuoXL	ADTrioXL
Excellent	220	352	480	960	1440
Good	193	308	420	840	1260
Average	165	264	360	720	1080
Poor	138	220	300	600	900
Very Poor	110	176	240	480	720

→ Alphapollo 10 (gpm)

120 Mesh	AP 310	AP 410	AP 510	AP 610	AP 710	AP 810
Excellent	1440	1920	2400	2880	3360	3840
Good	1260	1680	2100	2520	2940	3456
Average	1080	1440	1800	2160	2520	3072
Poor	900	1200	1500	1800	2100	2688
Very Poor	720	960	1200	1440	1680	2304

→ Alphapollo 12 (gpm)

AP 810	AP 812	AP 912	AP 1012
3840	3840	4320	4800
3360	3360	3780	4200
2880	2880	3240	3600
2400	2400	2700	3000
1920	1920	2160	2400

Not recommended, High Velocity in manifolds

Filtration Using 120 Mesh - Sand

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
SandStorm	Mesh	120	100.00%	92.50%	85.00%	77.50%	70.00%

→ Sandstorm Double Chamber (16",20",24") (gpm)

120 Mesh	DBL216	DBL220	DBL320	DBL224	DBL324
Excellent	52	132	198	192	288
Good	48	122	183	178	266
Average	44	112	168	163	245
Poor	40	102	153	149	223
Very Poor	36	92	139	134	202



→ Sandstorm Single Chamber (30" - 36") (gpm)

120 Mesh	SNG230	SNG330	SNG430	SNG236	SNG336	SNG436
Excellent	280	420	560	420	630	840
Good	259	389	518	389	583	777
Average	238	357	476	357	536	714
Poor	217	326	434	326	488	651
Very Poor	196	294	392	294	441	588

→ Sandstorm Single Chamber (48") (gpm)

120 Mesh	SNG248	SNG348	SNG448	SNG548*	SNG648*	SNG748*	SNG848*	SNG1048*
Excellent	750	1125	1500	1875	2250	2625	3000	3750
Good	694	1041	1388	1734	2081	2428	2775	3469
Average	638	956	1275	1594	1913	2231	2550	3188
Poor	581	872	1163	1453	1744	2034	2325	2906
Very Poor	525	788	1050	1313	1575	1838	2100	2625

→ Sandstorm NC (36") (gpm)

120 Mesh	NC236	NC336	NC436
Excellent	396	594	792
Good	366	549	733
Average	337	505	673
Poor	307	460	614
Very Poor	277	416	554

→ Sandstorm NC (48") (gpm)

NC248	NC348	NC448	NC548*	NC648*	NC748*	NC848*	NC1048*
700	1050	1400	1750	2100	2450	2800	3500
648	971	1295	1619	1943	2266	2590	3238
595	893	1190	1488	1785	2083	2380	2975
543	814	1085	1356	1628	1899	2170	2713
490	735	980	1225	1470	1715	1960	2450

*Do Not Exceed 4 tanks on a Manifold Leg

Filtration Using 120 Mesh - Screen

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
ScreenGuard	Mesh	120	100.00%	80.00%	67.50%	55.00%	42.50%

→ Screenguard Vertical (gpm)

120 Mesh	SGV2	SGV3	SGV3S	SGV4	SGV4S	SGV6
Excellent	110	155	220	330	350	440
Good	88	124	176	264	280	352
Average	74	105	149	223	236	297
Poor	61	85	121	182	193	242
Very Poor	47	66	94	140	149	187

→ Screenguard Horizontal (gpm)

120 Mesh	SGH4	SGH4S	SGH6	SGH6S	SGH8	SGH10
Excellent	350	440	530	660	1100	1320
Good	280	352	424	528	880	1056
Average	236	297	358	446	743	891
Poor	193	242	292	363	605	726
Very Poor	149	187	225	281	468	561

→ Screenguard Twins (gpm)

120 Mesh	TWIN8	TWIN10
Excellent	2200	2640
Good	1760	2112
Average	1485	1782
Poor	1210	1452
Very Poor	935	1122



Filtration Using 140 Mesh - Disc

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
Disc	Mesh	140	100.00%	85.00%	70.00%	55.00%	40.00%

→ Disc-Kleen (gpm)

140 Mesh	DK 2X2	DK 2X3	DK 2X4	DK 3X3	DK 3X4	DK 3X5
Excellent	160	240	320	480	640	800
Good	136	204	272	408	544	680
Average	112	168	224	336	448	560
Poor	88	132	176	264	352	440
Very Poor	64	96	128	192	256	320

→ Apollo (gpm)

140 Mesh	Apollo3	Apollo4	Apollo5	Apollo6	Apollo7	Apollo8
Excellent	1188	1584	1980	2376	2772	3168
Good	1010	1346	1683	2020	2356	2693
Average	832	1109	1386	1663	1940	2218
Poor	653	871	1089	1307	1525	1742
Very Poor	475	634	792	950	1109	1267



→ AlphaDisc (gpm)

140 Mesh	AD3	AD3XL	AD4XL	ADDuoXL	ADTrioXL
Excellent	220	352	480	960	1440
Good	187	299	408	816	1224
Average	154	246	336	672	1008
Poor	121	194	264	528	792
Very Poor	88	141	192	384	576

→ Alphapollo 10 (gpm)

140 Mesh	AP 310	AP 410	AP 510	AP 610	AP 710	AP 810
Excellent	1440	1920	2400	2880	3360	3840
Good	1224	1632	2040	2448	2856	3264
Average	1008	1344	1680	2016	2352	2688
Poor	792	1056	1320	1584	1848	2112
Very Poor	576	768	960	1152	1344	1536

→ Alphapollo 12 (gpm)

AP 812	AP 912	AP 1012
3840	4320	4800
3264	3672	4080
2688	3024	3360
2112	2376	2640
1536	1728	1920

Not recommended, High Velocity in manifolds

Filtration Using 150 Mesh - Sand

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
SandStorm	Mesh	150	100.00%	90.00%	80.00%	70.00%	60.00%

→ Sandstorm Double Chamber (16",20",24") (gpm)

150 Mesh	DBL216	DBL220	DBL320	DBL224	DBL324
Excellent	52	132	198	192	288
Good	47	119	178	173	259
Average	42	106	158	154	230
Poor	36	92	139	134	202
Very Poor	31	79	119	115	173



→ Sandstorm Single Chamber (30" - 36") (gpm)

150 Mesh	SNG230	SNG330	SNG430	SNG236	SNG336	SNG436
Excellent	280	420	560	420	630	840
Good	252	378	504	378	567	756
Average	224	336	448	336	504	672
Poor	196	294	392	294	441	588
Very Poor	168	252	336	252	378	504

→ Sandstorm Single Chamber (48") (gpm)

150 Mesh	SNG248	SNG348	SNG448	SNG548*	SNG648*	SNG748*	SNG848*	SNG1048*
Excellent	750	1125	1500	1875	2250	2625	3000	3750
Good	675	1013	1350	1688	2025	2363	2700	3375
Average	600	900	1200	1500	1800	2100	2400	3000
Poor	525	788	1050	1313	1575	1838	2100	2625
Very Poor	450	675	900	1125	1350	1575	1800	2250

→ Sandstorm NC (36")(gpm) → Sandstorm NC (48") (gpm)

150 Mesh	NC236	NC336	NC436	NC248	NC348	NC448	NC548*	NC648*	NC748*	NC848*	NC1048*
Excellent	396	594	792	700	1050	1400	1750	2100	2450	2800	3500
Good	356	535	713	630	945	1260	1575	1890	2205	2520	3150
Average	317	475	634	560	840	1120	1400	1680	1960	2240	2800
Poor	277	416	554	490	735	980	1225	1470	1715	1960	2450
Very Poor	238	356	475	420	630	840	1050	1260	1470	1680	2100

*Do Not Exceed 4 tanks on a Manifold Leg

Filtration Using 150 Mesh - Screen

Filtration Type			Water Quality				
			Excellent	Good	Average	Poor	Very Poor
ScreenGuard	Mesh	150	100.00%	75.00%	60.00%	45.00%	30.00%

→ Screenguard Vertical (gpm)

150 Mesh	SGV2	SGV3	SGV3S	SGV4	SGV4S	SGV6
Excellent	110	155	220	330	350	440
Good	83	116	165	248	263	330
Average	66	93	132	198	210	264
Poor	50	70	99	149	158	198
Very Poor	33	47	66	99	105	132

→ Screenguard Horizontal (gpm)

150 Mesh	SGH4	SGH4S	SGH6	SGH6S	SGH8	SGH10
Excellent	350	440	530	660	1100	1320
Good	263	330	398	495	825	990
Average	210	264	318	396	660	792
Poor	158	198	239	297	495	594
Very Poor	105	132	159	198	330	396

→ Screenguard Twins (gpm)

150 Mesh	TWIN8	TWIN10
Excellent	2200	2640
Good	1650	1980
Average	1320	1584
Poor	990	1188
Very Poor	660	792

