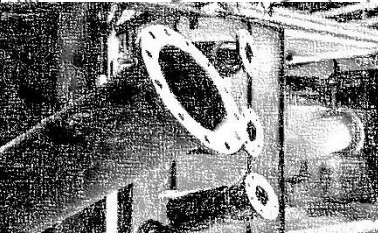


English



YAMIT
FILTRATION



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Manufacturing high quality water filtration and water treatment for the past 30 years , **YAMIT'S** filters are installed and operating in thousands of locations worldwide, filtering surface and underground water, seawater and wastewater in the most challenging environments such as seawater desalination plants, petrochemical plants, oil drilling platforms, coal mines, steel mills and municipal drinking and wastewater treatment plants among others.

With two manufacturing plants, 200 employees worldwide, and an expert technical team, **YAMIT Filtration & Water Treatment**, has been serving engineering firms, large industrial corporations and local governments around the world providing reliable, efficient, and optimized filtration solutions.

OUR STRENGTHS

Being a manufacturer, with a high level engineering foundation, we are able to offer:


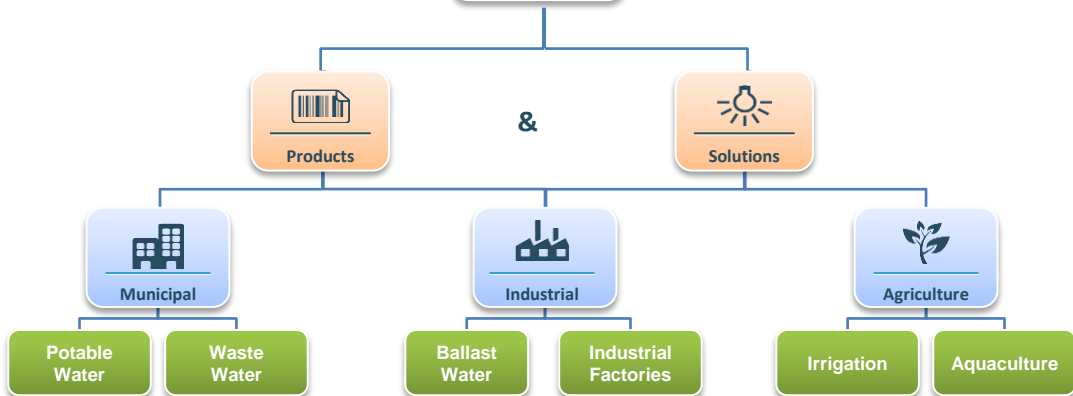
- An advanced and wide range of structural materials.
- From very coarse to very fine filtration grades
- Quick response and flexibility in product and system design
- Customized design and production as per customer's specific requirements.
- Fast and on-time delivery

OUR CUSTOMERS



- ❖ Production plant
- ❖ Regional office





Municipal, Industrial and Agriculture
We flow with the need of our customers!

PROJECTS: Automatic Filtration Applications



PROJECTS: Potable Water Applications

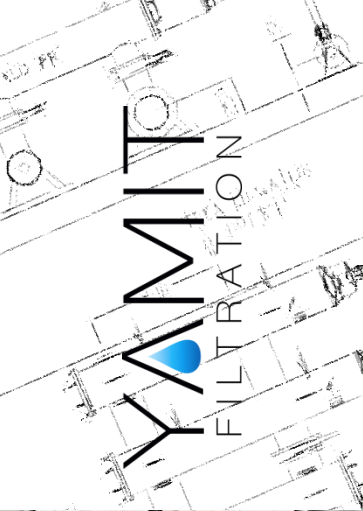


PROJECTS: Container Applications



PROJECTS: Mobile Applications





Manual Filters

MANUAL FILTERS – Series F100

Applications: Control filters with a 90° inlet/outlet

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder
- Available disc elements: 2", 3" & 4"
- **Available filtration grades:** from 80 micron
- **Filter housing construction material:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum pressure:** 10 bar (145 psi)
- **Maximum recommended working pressure:** up to 8 bar (116 psi).

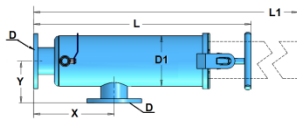


Operation:

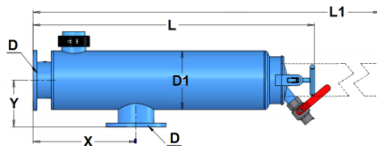
The filters are designed and built in accordance with the principle of water flow through the cylinder screen openings while solid particles are trapped by the screen. These particles can be easily removed by opening the cover and washing the screen manually. The drain valve is used for releasing pressure before opening for maintenance.

MANUAL FILTERS – Series F100

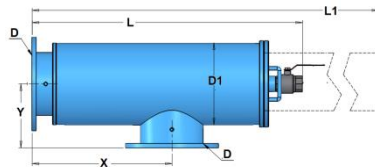
Model	In/Out ØD (in)	ØD1 (in)	X		Y		L		L 1		Shipping Weight		Packaging Volume LxWxH	
			(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(kg)	(lb)	(m)	(ft)
F115	1.5	4	220	8.7	97	3.8	455	17.9	600	23.6	8.6	19	0.49x0.19x0.19	1.61x0.62x0.62
F120	2	6	230	9.1	130	5.1	469	18.5	600	23.6	16.1	36	0.52x0.26x0.26	1.71x0.85x0.85
F122	2	6	255	10.0	130	5.1	719	28.3	1085	42.7	21.8	48	0.76x0.26x0.28	2.50x0.85x0.92
F130	3	6	270	10.6	140	5.5	729	28.7	1130	44.5	27.7	61	0.76x0.26x0.28	2.50x0.85x0.92
F140	4	8	325	12.8	190	7.5	855	33.7	1330	52.4	38.0	84	0.93x0.36x0.36	3.05x1.18x1.18
F160	6	10	480	18.9	217	8.5	1313	51.7	2250	88.6	76.0	168	1.27x0.31x0.42	4.12x1.02x1.38
F180	8	12	500	19.7	262	10.3	1104	43.5	1785	70.3	99.0	218	1.10x0.46x0.42	3.60x1.51x1.38
F110	10	14	610	24.0	278	10.9	1179	46.4	1950	76.8	115.0	254	1.10x0.46x0.42	3.60x1.51x1.38



Model F115-F140



Model F160



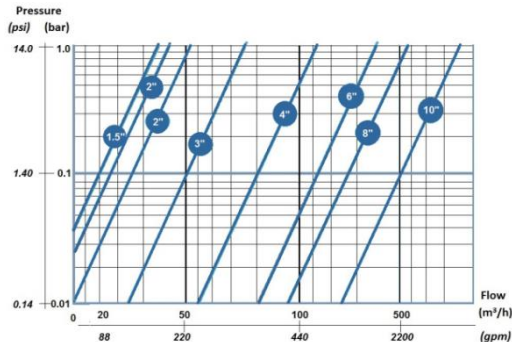
Model F180-F110

MANUAL FILTERS – Series F100

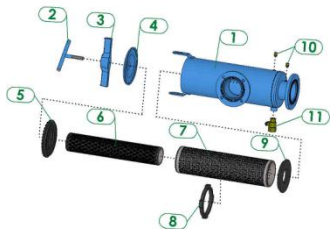
Model	In/Out ØD		Maximum Flow Rate		Screen area (cm ²) (in ²)	
	(mm)	(in)	(m ³ /h)	(GPM)		
F115	30	1.5	20	88	639	99
F120	50	2	25	110	994	154
F122	50	2	35	154	2023	314
F130	75	3	50	220	2023	314
F140	100	4	90	396	2890	448
F160	150	6	220	969	4104	636
F180	200	8	360	1585	4530	702
F110	250	10	500	2200	6371	988

* Maximum recommended Flow Rate - 120 micron in good quality water

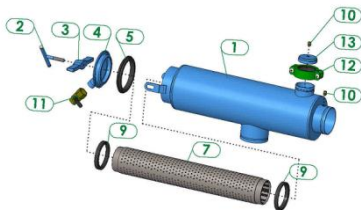
Pressure loss at 120 micron



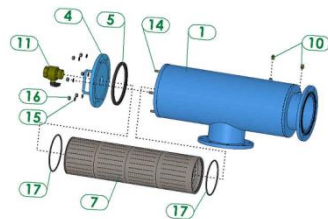
MANUAL FILTERS – Series F100



Model F115-F140



Model F160



Model F180-F110

MANUAL FILTERS – Series F100

Part Breakdown		Filter Model				
FILTER		F115 (4")	F120 (6")	F122 (6")	F130 (6")	F140 (8")
1	Filter body	N/A	N/A	N/A	N/A	N/A
2	Handle	E6020104000	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012004000-P	6012006000-P	6012006000-P	6012006000-P	6012108000-P
4	Cover	5320010400-P	5320200601-P	5320200601-P	5320200601-P	5320010801-P
5	Cover gasket	5312090600-010	5312140600-050	5312140600-050	5312060600-060	5312160600-150
6	Int. filter screen	W5001600400-01##	W5001600400-01##	W5001600401-01##	W5002600400-01##	W5002600401-01##
7	Ext. filter screen	-----	W5003600400-01##	W5003600402-01##	W5003600402-01##	W5004600400-01##
8	Centering gasket	-----	-----	-----	-----	5312160600-161
9	Screen gasket	5312090600-020	5312140600-080	5312140600-080	5312140600-100	5312160600-300
10	Pressure testing port	E5412023901-01	E5412023901-01	E5412023901-01	E5412023901-01	E5412023901-01
11	Ball valve	4504005100-01	4504007100-01	4504007100-01	4504007100-01	4504010100-01

MANUAL FILTERS – Series F100

Part Breakdown		Filter Model		
FILTER		F160 (10")	F180 (12")	F110 (14")
1	Filter body	N/A	N/A	N/A
2	Handle	E6020106000	-----	-----
3	Tightening bracket	6012108000-P	-----	-----
4	Cover	W5320010801-03P	W5331011004-01P	W5331011401-01P
5	Cover gasket	5312160600-135	5311250100	5311400100
6	Int. filter screen	-----	-----	-----
7	Ext. filter screen	E7004600404-01##	E7005604007-01##	E7006604003-01##
9	Screen gasket	5312160600-310	-----	-----
10	Pressure testing port	E5412023901-01	E5412023901-01	E5412023901-01
11	Ball valve	4504015100-01	4504020100-01	4504020100-01
12	Quick Coupling 4"	4150104000-03P	-----	-----
13	Cover 4" Victaulic	5320010402-P	-----	-----
14	Stud	-----	5292143001-048	5292143001-048
15	Washer	-----	4122140301	4122140301
16	Nut	-----	4112140301	4112140301
17	O-ring	-----	4081202100-445	4081266100-450

MANUAL FILTERS – Series F200

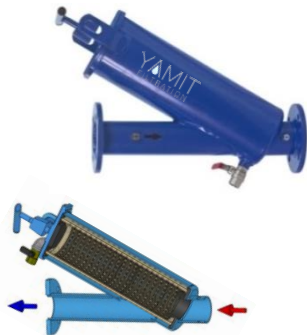
Applications: In-line control filters

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder
 - Available disc elements: 2", 3" & 4"
- **Available filtration grades:** from 80 micron
- **Filter housing construction material:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum pressure:** 10 bar (145 psi)
- **Maximum recommended working pressure:** up to 8 bar (116 psi).

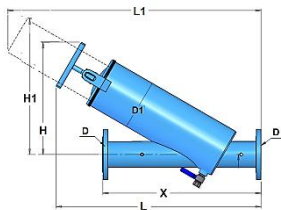
Operation:

The filters are designed and built in accordance with the principle of water flow through the cylinder screen openings while solid particles are trapped by the screen. These particles can be easily removed by opening the cover and washing the screen manually. The drain valve is used for releasing pressure before opening for maintenance.

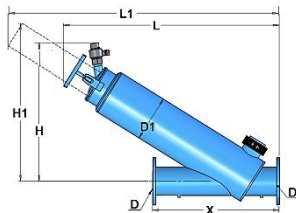


MANUAL FILTERS – Series F200

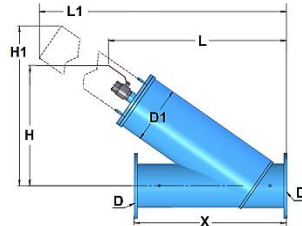
Model	In/Out ØD (in)	ØD1 (in)	X (mm) (in)		L (mm) (in)		L1 (mm) (in)		H (mm) (in)		H1 (mm) (in)		Shipping Weight (kg) (lb)		Packaging Volume LxWxH (m) (ft)	
F215	1.5	4	350	13.8	496	19.5	603	23.7	278	10.9	308	12.1	9.3	21	0.54x0.28x0.22	1.77x0.92x0.72
F220	2	6	480	18.9	504	19.9	587	23.1	295	11.6	308	12.1	16.2	36	0.55x0.32x0.29	1.80x1.05x0.95
F222	2	6	480	18.9	726	28.6	1040	40.9	427	16.8	590	23.2	22.8	50	0.67x0.55x0.28	2.20x1.80x0.92
F230	3	6	550	21.7	717	28.2	1032	40.6	398	15.7	539	21.2	31.9	70	0.67x0.55x0.28	2.20x1.80x0.92
F240	4	8	685	26.6	887	34.7	1275	50.2	487	19.2	688	27.1	43.8	97	0.84x0.64x0.32	2.76x2.10x1.05
F260	6	10	735	28.9	1264	49.8	2032	80.0	817	32.2	1207	47.5	79.2	175	1.37x0.77x0.35	4.49x2.53x1.15
F280	8	12	830	33.1	1072	42.2	1556	61.3	643	25.3	1178	46.4	108.8	240	1.20x0.73x0.35	3.94x2.40x1.15
F210	10	14	940	37.0	1103	43.4	1778	69.9	745	29.3	1165	45.8	135.0	298	Pallet 1.00x1.20	Pallet 3.28x3.94



Model F215-F240



Model F260



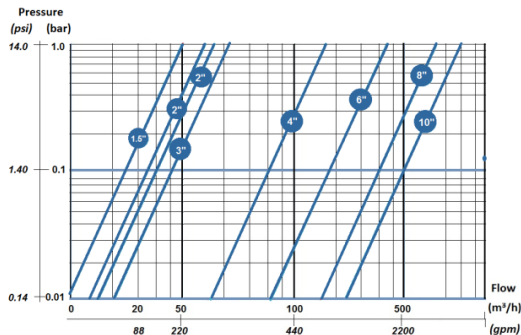
Model F280-F210

MANUAL FILTERS – Series F200

Model	In/Out ØD		Maximum Flow Rate		Screen area	
	(mm)	(in)	(m ³ /h)	(GPM)	(cm ²)	(in ²)
F215	30	1.5	15	66	639	99
F220	50	2	25	110	994	154
F222	50	2	30	132	2023	314
F230	75	3	40	176	2023	314
F240	100	4	80	352	2890	448
F260	150	6	180	793	4104	636
F280	200	8	300	1321	4530	702
F210	250	10	500	2200	6371	988

* Maximum recommended Flow Rate - 120 micron
in good quality water

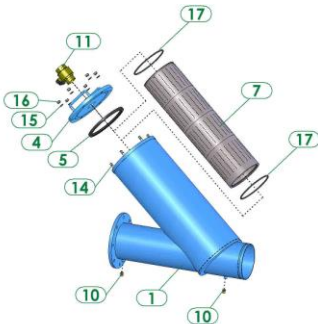
Pressure loss at 120 micron



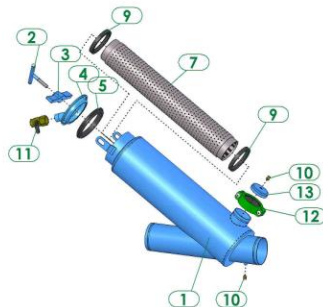
MANUAL FILTERS – Series F200



Model: F215-F240



Model: F280-F210



Model: F260

MANUAL FILTERS – Series F200

Part Breakdown		Filter Model				
FILTER		F215 (4")	F220 (6")	F222 (6")	F230 (6")	F240 (8")
1	Filter body	N/A	N/A	N/A	N/A	N/A
2	Handle	E6020104000	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012004000-P	6012006000-P	6012006000-P	6012006000-P	6012108000-P
4	Cover	5320010400-P	5320200601-P	5320200601-P	5320200601-P	5320010801-P
5	Cover gasket	5312090600-010	5312140600-050	5312140600-050	5312060600-060	5312160600-150
6	Int. filter screen	W5001600400-01##	W5001600400-01##	W5001600401-01##	W5002600400-01##	W5002600401-01##
7	Ext. filter screen	-----	W5003600400-01##	W5003600402-01##	W5003600402-01##	W5004600400-01##
8	Centering gasket	-----	-----	-----	-----	5312160600-161
9	Screen gasket	5312090600-020	5312140600-080	5312140600-080	5312140600-100	5312160600-300
10	Pressure testing port	E5412023901-01	E5412023901-01	E5412023901-01	E5412023901-01	E5412023901-01
11	Ball valve	4504005100-01	4504007100-01	4504007100-01	4504007100-01	4504010100-01

MANUAL FILTERS – Series F200

Part Breakdown		Filter Model		
FILTER		F260 (10")	F280 (12")	F210 (14")
1	Filter body	N/A	N/A	N/A
2	Handle	E6020106000	-----	-----
3	Tightening bracket	6012108000-P	-----	-----
4	Cover	W5320010801-03P	W5331011004-01P	W5331011401-01P
5	Cover gasket	5312160600-135	5311250100	5311400100
6	Int. filter screen	-----	-----	-----
7	Ext. filter screen	E7004600404-01##	E7005604007-01##	E7006604003-01##
8	Centering gasket	-----	-----	-----
9	Screen gasket	5312160600-310	-----	-----
10	Pressure testing port	E5412023901-01	E5412023901-01	E5412023901-01
11	Ball valve	4504015100-01	4504020100-01	4504020100-01
12	Quick Coupling 4"	4150104000-03P	-----	-----
13	Cover 4" Victaulic	5320010402-P	-----	-----
14	Stud	-----	5292143001-048	5292143001-048
15	Washer	-----	4122140301	4122140301
16	Nut	-----	4112140301	4112140301
17	O-ring	-----	4081202100-445	4081266100-450

BACK FLUSH FILTERS – Series F300

Applications: In-line back-up filter after sand/gravel filter

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316 mesh, supported by a PVC cylinder
- **Available filtration grades:** from 80 micron
- **Filter housing construction material:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum pressure:** 10 bar (145 psi)
- **Maximum recommended working pressure:** up to 8 bar (116 psi).

Operation:

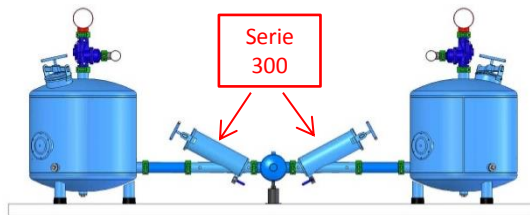
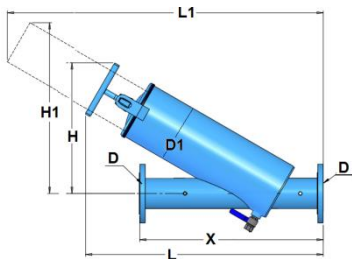
The filters are designed and built in accordance with the principle of water flow through the cylinder screen openings while solid particles are trapped by the screen. These particles can be removed by flushing through a drain valve or by opening the cover and washing the screen manually.

During back-flushing, the filtered water is reversed through the back-flush filter to the sand/gravel filter.



BACK FLUSH FILTERS – Series F300

Model	In/Out ØD (in)	ØD1 (in)	X (mm) (in)		L (mm) (in)		L1 (mm) (in)		H (mm) (in)		H1 (mm) (in)		Shipping Weight (kg) (lb)		Packaging Volume LxWxH (m) (ft)	
F320	2	6	480	19	504	18.9	587	23.1	295	11.6	308	12.1	15.7	35	0.6x0.3x0.3	1.8x1.05x0.9
F330	3	6	555	22	722	28.4	1032	40.6	398	15.7	539	21.2	30.5	67	0.7x0.6x0.3	2.2x1.05x0.9
F340	4	8	685	27	887	34.9	1275	50.2	487	19.2	688	27.1	41.8	92	0.8x0.6x0.3	2.8x2.10x0.9

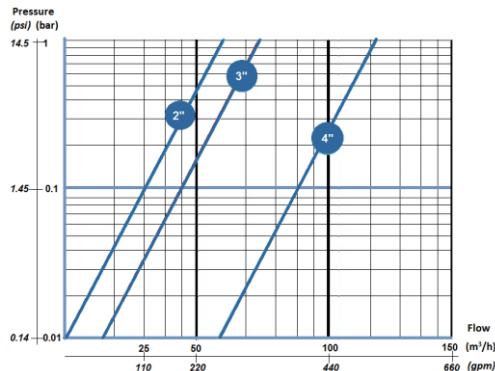


BACK FLUSH FILTERS – Series F300

Model	In/Out ØD		Maximum Flow Rate		Screen area	
	(mm)	(in)	(m ³ /h)	(GPM)	(cm ²)	(in ²)
F320	50	2	25	110	994	154
F330	75	3	40	176	2023	314
F340	100	4	80	352	2890	448

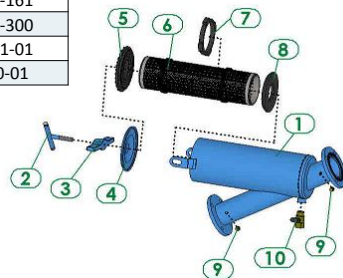
* Maximum recommended Flow Rate - 120 micron
in good quality water

Pressure loss at 120 micron



BACK FLUSH FILTERS – Series F300

Part Breakdown		Filter Model		
FILTER		F320 (6")	F330 (6")	F340 (8")
1	Filter body	N/A	N/A	N/A
2	Handle	E6020106000-P	E6020106000-P	E6020106000-P
3	Tightening bracket	6012006000-P	6012006000-P	6012108000-P
4	Cover	5320200601-P	5320200601-P	5320010801-P
5	Cover gasket	5312140600-050	5312060600-060	5312160600-150
6	Filter screen	E5003600400-01##-01	E5003600402-01##-01	E5004600400-01##-01
7	Screen Centering Gasket	-----	-----	5312160600-161
8	Screen Gasket	5312140600-080	5312140600-100	5312160600-300
9	Pressure testing port	E5412023901-01	E5412023901-01	E5412023901-01
10	Ball Valve	4504007100-01	4504007100-01	4504010100-01



AUTOMATIC CIRCULATING FILTERS – Series F400

Applications: In-line control filter

Standard Characteristics:

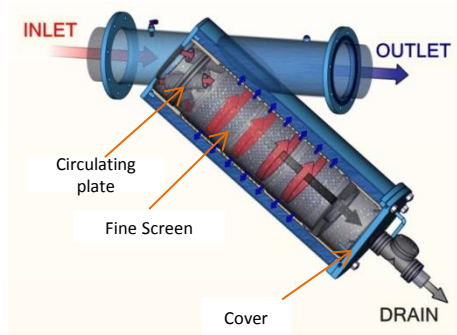
- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder
- **Available filtration grades:** from 80 micron
- **Filter housing construction material:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum pressure:** 10 bar (145 psi)
- **Maximum recommended working pressure:** up to 8 bar (116 psi).
- **Optional:** automatically controlled drainage valve (programmed by time)



AUTOMATIC CIRCULATING FILTERS – Series F400

Operation:

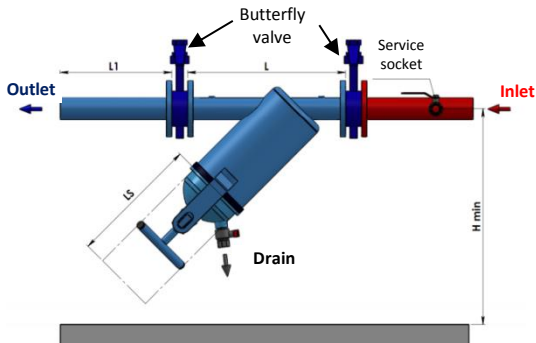
The water enters the filter through a plate with four or six (4 or 6) angular holes, directing the flow in a circular pattern along the length of the filter element. The water flows through the element screen openings while solid particles are collected at the lower section of the filter. These particles can be easily removed by opening the drain valve for a short period of time. The filters are supplied with 4-6 plugs enabling the user to adjust the number of holes to suit the filtering flow rate.



Installation:

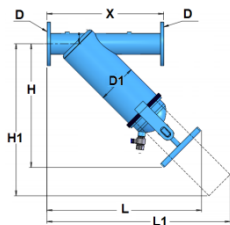
The filter body should point down, with the drain valve on the bottom.

- Install the filter in the correct direction according to the arrows.
- Install the air valve in front of the filter (optional)
- Install butterfly valves for easy maintenance (optional).
- In case of back flow (when the pump is stopped or the field is higher than the filter), install a non-return valve or wave anticipating valve.
- If more than one filters are installed, leave enough space between the units for easy maintenance and use only one controller for battery washing.
- If the pressure happens to rise above 8 bar, install a quick relief valve in front of the filter installation.

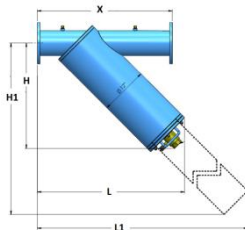


AUTOMATIC CIRCULATING FILTERS – Series F400

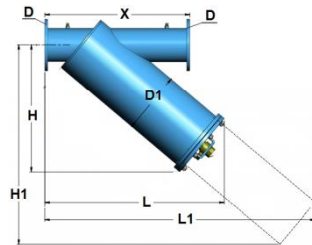
Model	In/Out ØD (in)	ØD1 (in)	X (mm) (in)		H (mm) (in)		H1 (mm) (in)		L (mm) (in)		L1 (mm) (in)		Shipping Weight (kg) (lb)		Packaging Vol. LxWxH (m3) (ft3)	
F415	1.5	6	360	14.2	419	16.5	426	16.8	520	20.5	528	20.8	14.5	32	0.6x0.4x0.3	2.1x1.4x0.9
F420	2	6	415	16.3	459	18.1	509	20.0	574	22.6	622	24.5	15.5	34	0.6x0.4x0.3	2.1x1.4x0.9
F430	3	6	490	21.3	519	20.4	638	25.1	641	25.3	765	30.1	29.9	66	0.7x0.6x0.3	2.2x1.8x0.9
F440	4	8	550	21.7	582	22.9	789	31.1	726	28.6	933	36.7	43.6	96	0.8x0.6x0.3	2.8x2.1x1.1
F460	6	12	910	35.8	782	30.8	1092	43.0	980	38.6	1397	55.0	117	258	1.2x0.8x0.4	4.1x2.5x1.5
F480	8	16	950	37.4	832	39.4	1407	55.4	1176	50.4	1893	74.5	190	419	1.3x0.9x0.7	4.1x3.1x2.1
F410	10	16	950	37.4	1110	43.7	1920	75.6	1365	53.7	2210	87.0	210	463	1.3x0.9x0.7	4.1x3.1x2.1



Model: F415 - F440



Model: F460



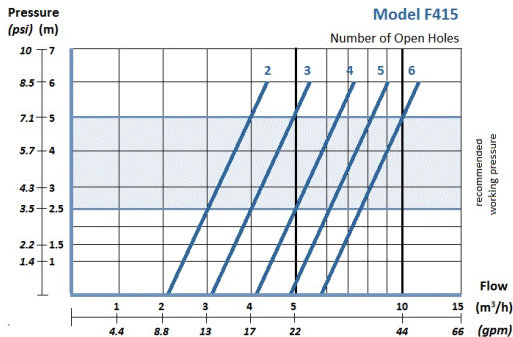
Model: F480-F410

AUTOMATIC CIRCULATING FILTERS – Series F400

Model	In/Out ØD		Maximum Flow Rate		Screen area	
	(mm)	(in)	(m ³ /h)	(GPM)	(cm ²)	(in ²)
F415	1.5	30	3-10	13-44	549	85
F420	2	50	11-28	48-123	896	139
F430	3	75	12-39	53-172	1188	184
F440	4	100	18-70	80-308	1734	269
F460	6	150	31-210	136-925	3707	575
F480	8	200	163-299	720-1320	4778	741
F410	10	250	270-500	1189-2202		

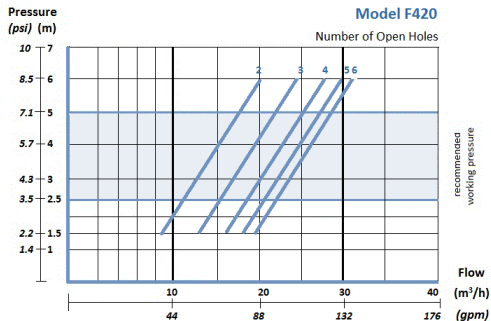
* Maximum recommended Flow Rate - 120 micron in good quality water

Model 415 - Pressure loss at 120 micron

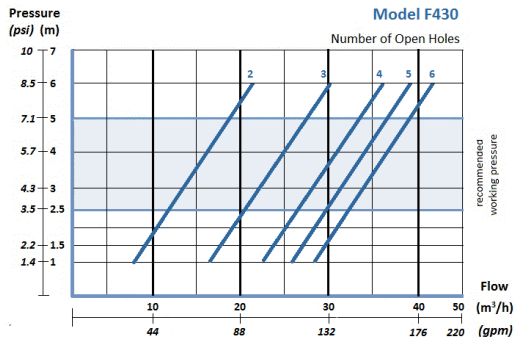


AUTOMATIC CIRCULATING FILTERS – Series F400

Model 420 - Pressure loss at 120 micron

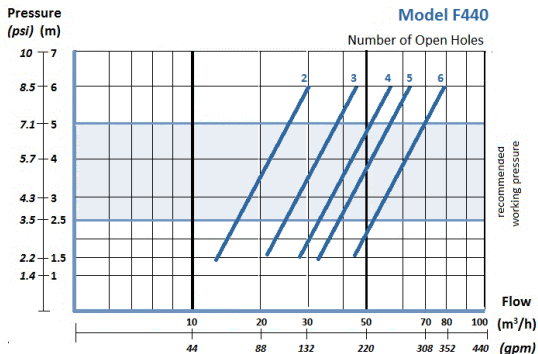


Model 430 - Pressure loss at 120 micron

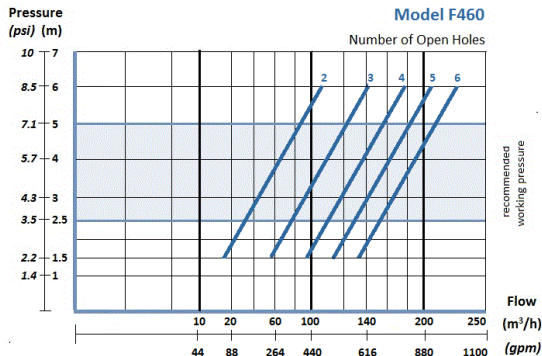


AUTOMATIC CIRCULATING FILTERS – Series F400

Model 440 - Pressure loss at 120 micron

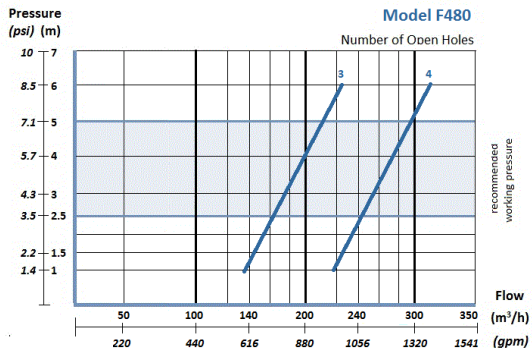


Model 460 - Pressure loss at 120 micron

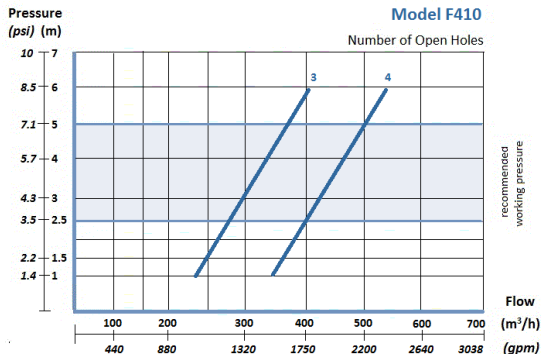


AUTOMATIC CIRCULATING FILTERS – Series F400

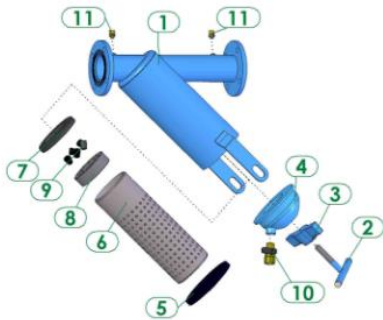
Model 480 - Pressure loss at 120 micron



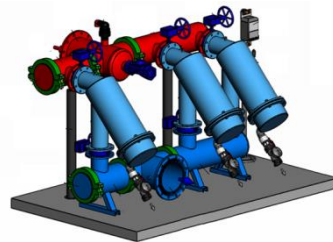
Model 410 - Pressure loss at 120 micron



AUTOMATIC CIRCULATING FILTERS – Series F400



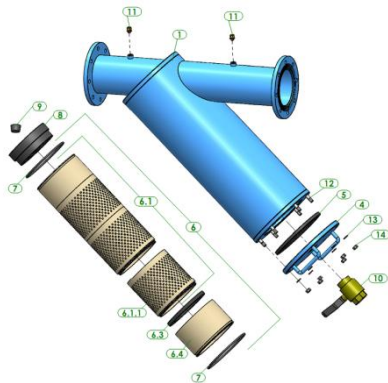
Model: F415, F420, F430, F140



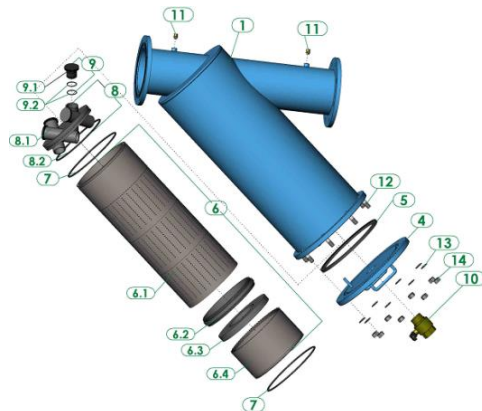
AUTOMATIC CIRCULATING FILTERS – Series F400

Part Breakdown		Filter Model			
FILTER		F415 (1.5")	F420 (2")	F430 (3")	F440 (4")
1	Filter body	N/A	N/A	N/A	N/A
2	Tightening handle	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012006000-P	6012006000-P	6012006000-P	6012108000-P
4	Cover	W5234202001-01P	W5234202001-01P	W5234202001-01P	W5320010800-01P
5	Cover gasket	5312140600-180	5312140600-180	5312140600-180	5312160600-170
6	Fine screen	W5002600402-01##	W5003600404-01##	W5003600405-01##	W5004600403-01##
7	Screen gasket	5312140600-290	5312140600-190	5312140600-190	5312160600-160
8	Circulating plate	5024610200	5024610300	5024610300	5024610400
9	Rubber plug for circulating plate	5312010600-220	5312021600-230	5312021600-230	5312023600-240
10	Ball valve	4504007100-01	4504007100-01	4504007100-01	4504007100-01
11	Pressure testing port	E5412023901-01	E5412023901-01	E5412023901-01	E5412023901-01

AUTOMATIC CIRCULATING FILTERS – Series F400



Model: F460



Model: F480 – F410

AUTOMATIC CIRCULATING FILTERS – Series F400

Part Breakdown		Filter Model	
FILTER		F460 (6")	F480 (8")
4	Cover	W5331011200-01P	W5331011603-01P
5	Cover gasket	5312225600-433	5311450100
6	Fine screen	W5005600402-01##	E7007603000-01##-01
6.1	Fine screen PVC	---	E5007600300-01##-01
6.1.1	Fine screen middle section PVC225	W5005600300-01##	
6.2	Flushing chamber adaptor	---	5007601001
6.3	Flushing chamber plate	---	5023610700
6.4	Flushing chamber	---	E5007601100-01
7	Screen gasket	5312225600-434	4081291100-452
8	Circulating plate	5024610500	E5024610700-01
8.1	Circulating plate PVC	---	W5024610700-01
8.2	O-Ring	---	4081266100-450
9	Rubber plug for circulating plate	5312000600-430	E6076204900-01
9.1	Plug for circulating plate	---	6076204900
9.2	O-Ring	---	4081040100-223
10	Ball valve	4504020100-01	4504020100-01
11	Pressure testing port	E5412023901-01	E5412023901-01
12	Bolt	4102160301-070	5292183007-073
13	Washer	4122160301	4122180402
14	Nut	4112160301	4112180301

Applications: Protection for water meter or hydrometer, and for decrease of suspended solids level in the water.

Standard Characteristics:

- **Filter element:** Single perforated screen Stainless Steel AISI 316
- **Available filtration grade:** 3000 micron and coarser
- **Filter housing construction material:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatically oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).

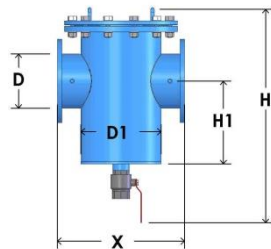
Operation:

The filters are designed and built in accordance with the principle of water flow through the screen openings while solid particles are collected at the lower section of the filter. These particles can be easily removed by drainage through a relatively large drain valve or by opening the cover and washing the screen manually.



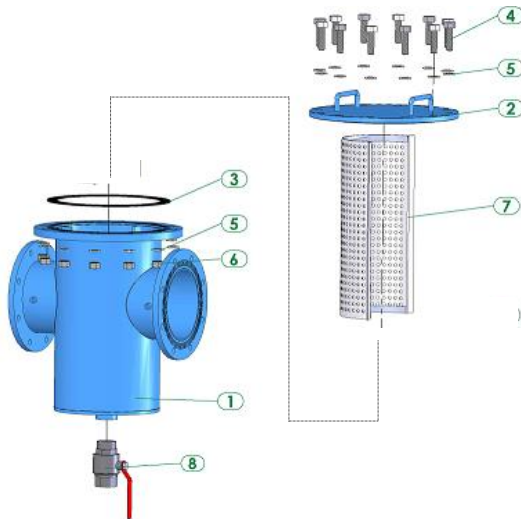
PRE-FILTRATION – Series F2000

Model	ØD In/Outlet (mm) (in)		ØD1 (in)	X (mm) (in)		H (mm) (in)		H1 (mm) (in)		Weight (Kg) (lb)	
F2002	50	2	6	330	13.0	292	11.5	560	22	35	80
F2003	80	3	6	330	13.0	292	11.5	560	22	40	90
F2004	100	4	6	330	13.0	292	11.5	580	23	45	100
F2006	150	6	8	420	16.5	292	11.5	610	24	65	145
F2008	200	8	10	515	20.3	294	11.5	665	26	95	210
F2010	250	10	12	565	22.3	334	13.2	715	28	120	265
F2012	300	12	14	655	25.8	336	13.2	795	31	170	375
F2014	350	14	16	710	28.0	378	14.9	825	33	220	485
F2016	400	16	18	760	30.0	400	15.7	870	34	275	605
F2018	450	18	20	810	32.0	392	15.5	890	35	350	770
F2020	500	20	24	980	38.5	417	16.4	950	38	575	1270
F2024	600	24	28	1080	42.5	503	19.8	1115	44	670	1480



PRE-FILTRATION – Series F2000

Part Breakdown	
1	Filter body
2	Cover
3	Cover gasket
4	Bolt
5	Washer
6	Nut
7	Screen
8	Flushing valve



PRE-FILTRATION – Series F2000

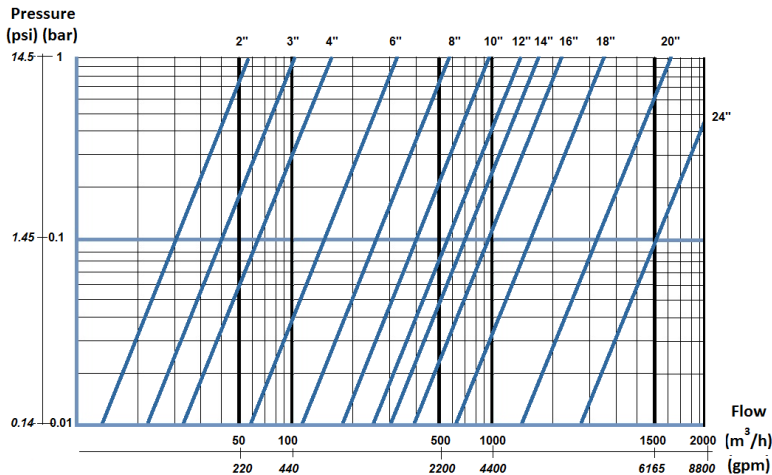
Model	In/Out ØD		Max. Flow Rate	
	(mm)	(in)	(m ³ /h)	(gpm)
F2002	50	2	20	88
F2003	75	3	40	176
F2004	100	4	65	286
F2006	150	6	150	660
F2008	200	8	260	1145
F2010	250	10	400	1761
F2012	300	12	580	2554
F2014	350	14	700	3082
F2016	400	16	880	3875
F2018	450	18	1150	5064
F2020	500	20	1450	6385
F2024	600	24	2000	8806

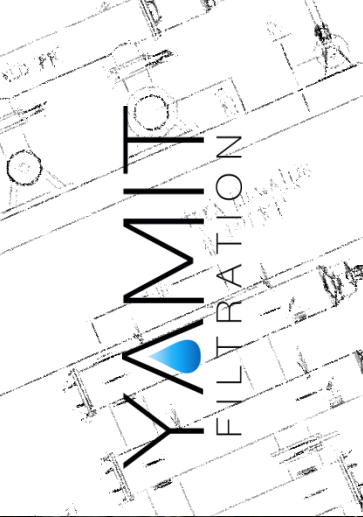
- Maximum recommended Flow Rate - 120 micron in good quality water



PRE-FILTRATION – Series F2000

Pressure loss at 3000 micron





Media Filters

MEDIA FILTRATION SYSTEM – Series F600

Applications: provide high quality filtration solutions for water with high contamination of organic material and algae

Standard Characteristics:

- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum recommended working pressure:** 8 bars (116 psi).
- Equipped with “mushroom” diffusers with vertical openings
- Diffusion protection for screws, nuts & washers

Operation:

Water enters the filter via the inlet and spreads evenly onto the media.

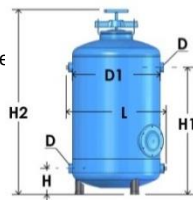
Solids and organic materials are trapped within the media. The clean water passes through the media and flows out via the nozzles. The back flushing process is done by shutting the inlet of the filter and allowing the water to enter from the bottom, lifting the media and releasing the solids that exit the filter through the back flush manifold. This process can be controlled automatically.



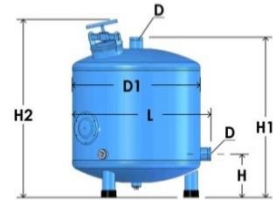
MEDIA FILTRATION SYSTEM – Series F600

Model	In/Out ØD (in)	ØD1 (in)	H (mm) (in)	H1 (mm) (in)	H2 (mm) (in)	L (mm) (in)	Weight of unit (kg) (lb)	No. of gravel bags of 25 kg (55 lb)
F605	1	12	150 5.91	785 30.91	1160 45.65	445 17.52	45 99	2
F610	1 ½	16	180 7.09	870 34.25	1175 46.23	457 17.99	48 106	3
F620	2	20	180 7.09	880 34.65	1280 50.4	548 21.57	60 132	5
F630	3	20	180 7.09	880 34.65	1280 50.4	617 24.29	60 132	5
F635	2	24	180 7.09	880 34.65	1285 50.6	696 27.4	85 187	7
F636	3	24	180 7.09	880 34.65	1285 50.6	750 29.53	85 187	7
F640	3	30	300 11.81	1070 42.13	1197 47.12	864 34.02	130 287	12
F650	3	36	300 11.81	1110 43.7	1242 48.9	1010 39.76	170 375	16
F655	3	42	300 11.81	1110 43.7	1224 48.19	1166 45.91		21
F660	4	48	330 11.81	1110 43.7	1189 46.81	1338 52.69	246 542	23

Note: Standard connection 12"- 25" threaded
30"- 48" Victaulic/Flange



Model F605 – F635

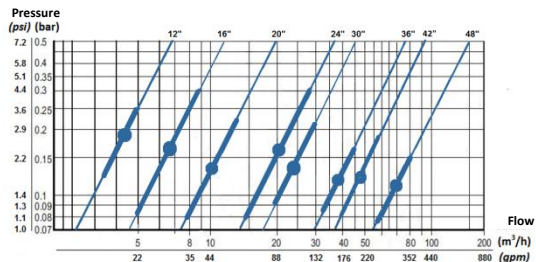


Model F640 – F660

MEDIA FILTRATION SYSTEM – Series F600

Model	In/out ØD (in)	Body Diameter (mm) in)	Recom. Flow rate (m ³ /h) (gpm)	Recom. Backwash Flow rate (m ³ /h)(gpm)	Filtration area (m ²) (ft ²)
F605	1	323 12	3.5-5 15-22	6 26	0.07 0.75
F610	1.5	390 16	5.3-9 23-39	10 44	0.12 1.29
F620	2	480 20	8-13.5 35-59	17 75	0.20 2.15
F630	3	480 20	8-13.5 35-59	17 75	0.20 2.15
F635	2	610 24	13.5-20 59-88	25 110	0.29 3.12
F636	3	610 24	13.5-20 59-88	25 110	0.29 3.12
F640	3	762 30	20-30 88-132	38 167	0.44 4.73
F650	3	900 36	32-44 140-193	55 242	0.64 6.89
F655	3	1050 42	39-57 171-250	74 326	0.87 9.36
F660	4	1200 48	55-79 242-348	96 423	1.13 12.16

Pressure loss at 120 micron



● Average point – Headloss/Flow Rate

MEDIA FILTRATION SYSTEM – Series F600

Recommendation table for gravel system

Model	In/Outlet ØD (in)	Max. Flow rate (m3/h)	Configuration	Screen (*)
F635-02-130	3	40	2*24"	1*F130 (3")
F635-03-140	4	60	3*24"	1*F140 (4")
F635-04-140	4	80	4*24"	1*F140 (4")
F635-05-140	4	100	5*24"	1*F140 (4")
F635-06-160	6	120	6*24"	1*F160 (6")
F650-04-160	6	160	4*36"	1*F160 (6")
F650-05-160	6	200	5*36"	1*F160 (6")
F650-06-160	6	250	6*36"	1*F160 (6")
F650-07-180	8	300	7*36"	1*F180 (8")
F650-08-180	8	340	8*36"	1*F180 (8")
F660-05-180	8	350	5*48"	1*F180 (8")
F660-06-110	10	420	6*48"	1*F110 (10")
F660-07-110	10	500	7*48"	1*F110 (10")
F660-08-110	10	570	8*48"	2*F180 (8")
F660-09-110	10	630	9*48"	2*F180 (8")
F660-10-110	12	700	10*48"	2*F180 (8")

* The standard screen of the control filter is 400 micron.

The system includes: back flushing valve, limit flow rate valve, back flushing controller, gravel, pipes & accessories.



Sodium Hypochlorite for Chlorination

Chlorine treatment process

1. Empty the tank until it is half filled with water.
2. Apply the quantities of liquid sodium hypo-chloride into the filter tanks, as per the table.
3. Refill each tank with water allowing no flow through the tanks.
4. Close the cover of the filter and wait 30 to 60min.
5. Wash the filter again, 2-3 times consecutively.

Model	Filter diameter		Quantity of Sodium Hypochlorite Domestic liquid - 3% concentration		Quantity of Sodium Hypochlorite Technical liquid - 10% concentration	
	(in)	(mm)	(litros)	(gallons)	(litros)	(gallons)
F605	12	300	0.27	0.07	0.06	0.016
F610	16	400	0.50	0.13	0.10	0.026
F620	20	500	0.80	0.21	0.16	0.042
F630	20	500	0.80	0.21	0.16	0.042
F635	24	610	1.20	0.32	0.24	0.063
F636	24	610	1.20	0.32	0.24	0.063
F640	30	750	1.73	0.46	0.35	0.092
F650	36	900	2.48	0.65	0.50	0.132
F655	42	1050	3.45	0.91	0.70	0.185
F660	48	1200	4.50	1.19	0.90	0.238

MEDIA FILTRATION SYSTEM – Series F600

Victaulic Connector



Victaulic Adaptor Flanged



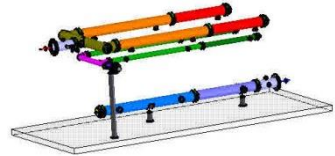
Victaulic adaptor Threaded female



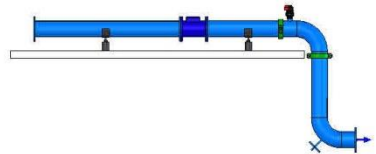
Victaulic adaptor Threaded male



Steel Manifold



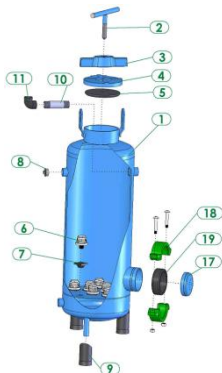
Manifold water meter 10D, 5D + Foot Drop to the Ground



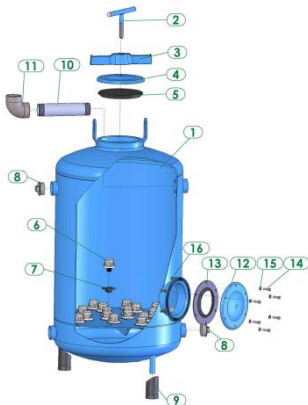
Support legs



MEDIA FILTRATION SYSTEM – Series F600



Model: F605



Model: F610-F635



Model: F640-F660

MEDIA FILTRATION SYSTEM – Series F600

Part breakdown		Filter Model			
FILTER		F605 (12"*1")	F610 (16" *1.5")	F620 (20"*2")	F630 (20"*3")
1	Filter body	N/A	N/A	N/A	N/A
2	Handle	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012006000-P	6012108000-P	6012108000-P	6012108000-P
4	Cover	5320200601-P	5320010800-P	5320010800-P	5320010800-P
5	Cover gasket	5311150600-040	5311200600-120	5311200600-120	5311200600-120
6	Filter nozzle	4000016500	4000016500	4000016500	4000016500
7	Gasket for filter nozzle	5312000600-280	5312000600-280	5312000600-280	5312000600-280
8	Plug	4180100300	4180150300	4180200300	4180200300
9	Rubber base for leg	5312007600-069	5312007600-069	5312007600-068	5312007600-068
10	Riser	4240106000-120	4240156000-150	4240206000-200	-
11	Elbow	4170106501	4170156501	4170206501	6226002000
12	Service hole cover	-----	5320010600-P	5320010600-P	5320010600-P
13	Hydraulic gasket f/cover	-----	5311150600-045	5311150600-045	5311150600-045
14	Bolt	-----	4102110401-030	4102110401-030	4102110401-030
15	Washer	-----	4122110401	4122110401	4122110401
16	Nut	-----	4112110401	4112110401	4112110401
17	Cover	5320010401-P	-----	-----	-----
18	Quick coupling	4150104000-03P	-----	-----	-----
19	Quick coupling gasket	4084040200	-----	-----	-----

MEDIA FILTRATION SYSTEM – Series F600

Part breakdown		Filter Model				
FILTER		F635 (24"*2)	F636 (24"*3")	F640 (30"*3")	F650 (36"*3")	F660 (48"*4")
1	Filter body	N/A	N/A	N/A	N/A	N/A
2	Handle	E6020106000	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012108000-P	6012108000-P	6012108000-P	6012108000-P	6012108000-P
4	Cover	5320010800-P	5320010800-P	5320010800-P	5320010800-P	5320010800-P
5	Cover gasket	5311200600-120	5311200600-120	5311200600-120	5311200600-120	5311200600-120
6	Filter nozzle	4000016500	4000016500	4000016500	4000016500	4000016500
7	Gasket for filter nozzle	5312000600-280	5312000600-280	5312000600-280	5312000600-280	5312000600-280
8	Plug	4180200300	4180200300	4180200300	4180200300	4180200300
9	Rubber base for leg	5312007600-069	5312007600-069	E5312030600-067	E5312030600-067	E5312030600-067
10	Riser	4240206000-250	---	---	---	---
11	Elbow	4170206501	6226003000	---	---	---
12	Service hole cover	5320010600-P	5320010600-P	5320010600-P	5320010600-P	5320010600-P
13	Hydraulic gasket f/cover	5311150600-045	5311150600-045	5311150600-045	5311150600-045	5311150600-045
14	Bolt	4102110401-030	4102110401-030	4102110401-030	4102110401-030	4102110401-030
15	Washer	4122110401	4122110401	4122110401	4122110401	4122110401
16	Nut	4112110401	4112110401	4112110401	4112110401	4112110401

MEDIA FILTRATION SYSTEM: Series F600



MEDIA FILTRATION SYSTEM: Single Chamber Series F660IVL

Application:

The Stainless Steel / Carbon Steel Single Chamber Media Filters are designed to provide quality filtration solutions for water containing high level of organic matter and algae contamination. The high quality materials and manufacturing combined with a large efficient open area operation of the filtration and backwash mechanisms ensure consistent and long term clean water supply.

Special features and technical specifications

- **Filter housing material of construction:** **F600IVL** - Carbon Steel ST37.2
F600IVL-SS – Stainless Steel ST304
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Maximum recommended working pressure:** 6 bars (87 psi)
- Only one grade of sand media is necessary with any Yamit's system

Operation principles

Water enters the filter via the inlet and spreads equally on the media. Dirt particles and organic matter is trapped on and in the media. Water passes through the media and flows out via the filter elements free of dirt. The cleaning backwash process is carried out by shutting off the inlet of the filter with a 3-way backwash valve and turning open the flush water outlet.

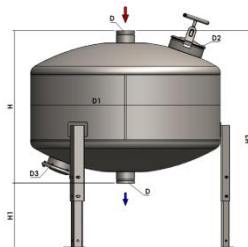
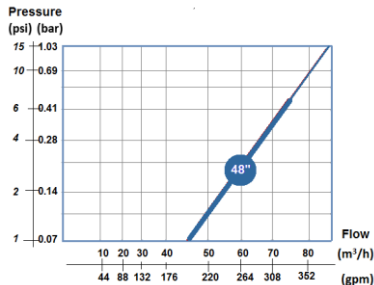


MEDIA FILTRATION SYSTEM: Single Chamber Series F660IVL

Model	D		D1		D2		D3		H		H1		H2	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
F660IVL	4	100	48	1200	8	200	6	150	37.8	960	16.1	410	53.9	1370

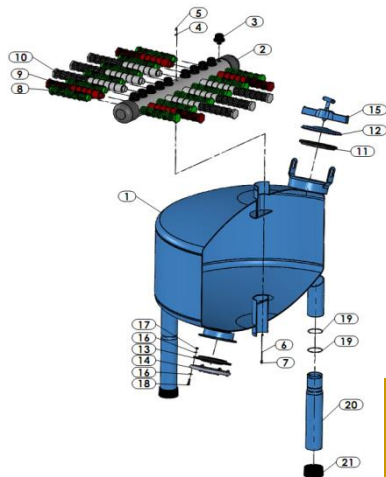
Model	D1		Filtration area		Flow Rate Range		Required Media		Tank Weight	
	(in)	(mm)	(ft ²)	(m ²)	(gpm)	(m ³ /h)	(lb)	(kg)	(lb)	(kg)
F660IVL	48	1200	12.16	1.13	198-330	45-75	1488	675	364	165

No of Filters/Size	Flow Rate Range	
	(gpm)	(m ³ /h)
2 - 48"	396-660	90-150
3 - 48"	594-990	135-225
4 - 48"	792-1320	180-300
5 - 48"	990-1650	225-375
6 - 48"	1188-1980	270-450
8 - 48"	1584-2640	360-600



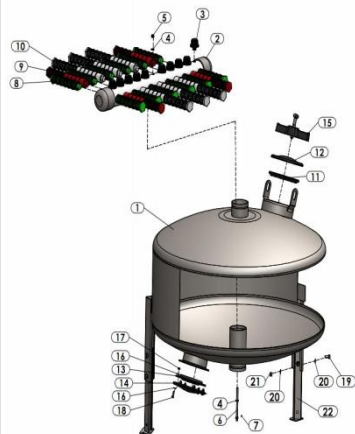
MEDIA FILTRATION SYSTEM: Series F660IVL – Carbon Steel

Part	Part Breakdown	Catalog No.
1	Body gravel filter 48"*4"VIC IL single Chamber C.S	NA
2	Diffuser body PVC110 F660LV single chamber	W6216111002-02
3	Filter nozzles PP [P2](0.25) L=20/20 15/16"	4000026500
4	Washer 3/8" SS304	4122123001
5	Nut NYLOCK 3/8" SS304	4112123002
6	Rod 3/8"NC*190 F660LV	W6243001200-190-01
7	Pin 3*16" SS304	4112123001
8	Filtering Arm 0.25 SF-237 M30X2 PP	4000046500
9	Filtering Arm 0.25 SFC-347 M30X2PP 5 Blinded head	4000046501
10	Filtering Arm 0.25 SFC-456 M30X2PP 6 Blinded head	4000046502
11	Hydraulic gasket f/service hole 8" F500, F610-680	5311200600-120
12	Cover 8" F500, F610-680 PNT	5320010800-02-P
13	Hydraulic gasket f/service hole 6" F610-660,FT060	5311150600-045
14	Service hole cover F610-660,FT060 PNT	5320010600-01-P
15	Kit tightening bracket 8"+ handle PNT	ES6012108000-01-P
16	Washer 5/16" hot galvanized	4122110401
17	Nut 5/16"NC hot galvanized	4112110401
18	Bolt hex. head5/16"NC*35 hot galvanized	4102110401-035
19	O-Ring 230 NBR	4081063100-230
20	Extension leg F48"	5421010300-P
21	Rubber base NR for leg F640-660	E5312030600-067



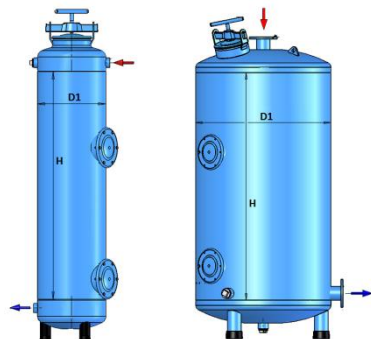
MEDIA FILTRATION SYSTEM: Series F660IVL – Stainless Steel

Part	Part Breakdown	Catalog No.
1	Body gravel filter 48" x 4" VIC IL Single chamber SST304	NA
2	Diffuser body PVC 110 F660LV Single chamber	W6216111002-02
3	Filter nozzles PP [P2](0.25) L=20/20 15/16"	4000026500
4	Washer 3/8" SS304	4122123001
5	Nut Nylock 3/8" SS304	4112123002
6	Comp Rod 3/8" NC*190 F660LV	E6243001200-190-01
7	Pin C 3*16 SS304	4132033001
8	Filtering Arm 0.25 SF-237 M30X2 PP	4000046500
9	Filtering Arm 0.25 SFC-347 M30X2PP 5BLINDED HEAD	4000046501
10	Filtering Arm 0.25 SFC-456 M30X2PP 6BLINDED HEAD	4000046502
11	Hydraulic Gasket f/service hole 8" F500,F610-680	5311200600-120
12	Cover 8" F500,F610-680 PNT	5320010800-02-P
13	Hydraulic Gasket f/service hole 6" F610-660,FT060	5311150600-045
14	Service hole cover 6" F610-660,FT060 PNT	5320010600-01-P
15	Kit tightening bracket 8"+ handle PNT	ES6012108000-01-P
16	Washer 5/16" Hot galvanized	4122110401
17	NUT 5/16" NC Hot galvanized	4112110401
18	Bolt hex head 5/16" NC*30 Hot galvanized	4102110401-030
19	Bolt hex head 1/2" NC*1" SS304	4102143001-025
20	Washer 1/2" galvanized	4122140501
21	Nut 1/2" NC galvanized	4112140501
22	Leg body SS304 H=478.5 F660IVL	W5424300003-01



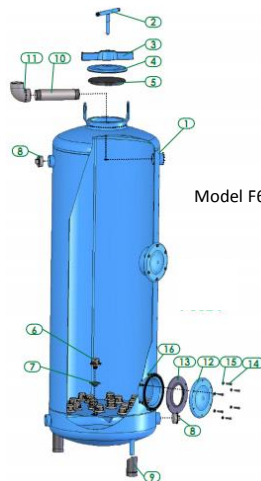
MEDIA FILTERS: Multimedia Series F6000

Model	ØD1 (mm) (in)		Filtration area (m ²) (ft ²)		H (mm) (in)		Weight (kg) (lb)	
F6016	250	16	0.12	1.29	1500	59.0		
F6020	500	20	0.20	2.15	1500	59.0	260	573
F6024	625	24	0.30	3.23	1500	59.0	330	727
F6030	750	30	0.44	4.73	1500	59.0		
F6036	900	36	0.64	6.46	1500	59.0	670	1477
F6048	1200	48	1.13	12.16	1500	59.0	960	2116
F6064	1600	64	2.00	21.52	1500	59.0	1750	3858
F6080	2000	80	3.14	33.79	1500	59.0	2500	5511
F6088	2200	88	3.80	40.90	1500	59.0	4100	9038
F6100	2500	100	4.90	52.70	1500	59.0	5100	11243
F6120	3000	120	7.00	75.60	1500	59.0	6700	14770



- Data refer to standard models
- Max. Working pressure : 6 Bar (option of higher pressures on request)
- Standard cylinder height (H) (optional on request)

MEDIA FILTERS – Multimedia Series F6000

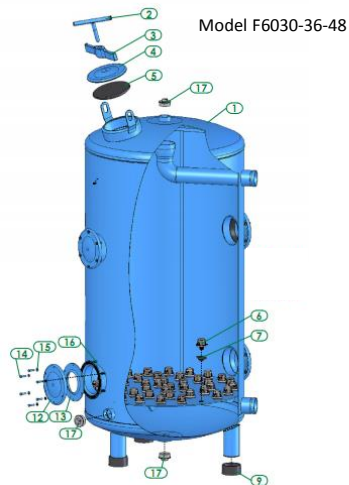


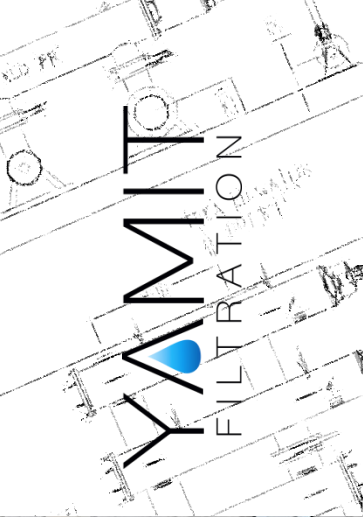
Model F6016-20-24

Part Breakdown		Filter Model		
FILTER		F6016	F6020	F6024
1	Filter body	N/A	N/A	N/A
2	Tightening Handle	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012108000-P	6012108000-P	6012108000-P
4	Cover	5320010800-P	5320010800-P	5320010800-P
5	Hyd. Gasket f/service hole	5311200600-120	5311200600-120	5311200600-120
6	Filter nozzle	4000016500	4000016500	4000016500
7	Gasket for filter nozzle	5312000600-280	5312000600-280	5312000600-280
8	Plug	4180150300	4180200300	4180200300
9	Rubber base for leg	5312007600-069	5312007600-068	5312007600-069
10	PVC riser	4240156000-150	4240206000-200	4240206000-250
11	Elbow	4170156501	4170206501	4170206501
12	Service hole cover	5320010600-P	5320010600-P	5320010600-P
13	Hydraulic gasket f/cover	5311150600-045	5311150600-045	5311150600-045
14	Bolt	4102110401-030	4102110401-030	4102110401-030
15	Washer	4122110401	4122110401	4122110401
16	Nut	4112110401	4112110401	4112110401
17	Plug	---	---	---

MEDIA FILTERS: Multimedia Series F6000

Part Breakdown		Filter Model		
FILTER		F6030	F6036	F6048
1	Filter body	N/A	N/A	N/A
2	Tightening Handle	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012108000-P	6012108000-P	6012108000-P
4	Cover	5320010800-P	5320010800-P	5320010800-P
5	Hyd. Gasket f/service hole	5311200600-120	5311200600-120	5311200600-120
6	Filter nozzle	4000016500	4000016500	4000016500
7	Gasket for filter nozzle	5312000600-280	5312000600-280	5312000600-280
8	Plug	---	---	---
9	Rubber base for leg	E5312030600-067	E5312030600-067	E5312040500-064
10	PVC riser	---	---	---
11	Elbow	---	---	---
12	Service hole cover	5320010600-P	5320010600-P	5320010600-P
13	Hydraulic gasket f/cover	5311150600-045	5311150600-045	5311150600-045
14	Bolt	4102110401-030	4102110401-030	4102110401-030
15	Washer	4122110401	4122110401	4122110401
16	Nut	4112110401	4112110401	4112110401
17	Plug	4180200300	4180200300	4180200300





Sand Separator Hydrocyclone

SAND SEPARATOR (Hydrocyclone): Series F700

Applications: sand separator for well applications

Standard Characteristics:

- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Male Threaded and Flange
- **Maximum recommended working pressure:** 10 bars (145 psi).
- Inlet is tangential to the body
- Equipped with anti- vacuum valve
- Conical rubber protection or expendable connection on the joint between hydrocyclone and the sedimentation tank

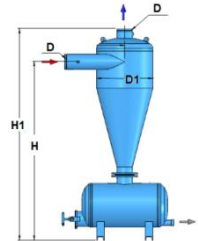


Operation:

Water enters the hydrocyclone via the tangential inlet which creates a spiral flow along the walls of the filter. The centrifugal force separates the waste and sand particles and pushes them towards the walls of the sand separator. Those particles gravitate downwards and into the sedimentation tank, while clean water moves upwards and exits through the top outlet. For the sand separator to operate correctly, the lead loss must remain between 2-5m. The separation efficiency is not affected by the accumulation of dirt in the sedimentation tank. The sedimentation tank is drained by opening a flush valve for a few seconds manually or automatically by timer.

SAND SEPARATORS (Hydrocyclone): Series F700

Model	In/out ØD (in)	ØD1 (in)	H (mm) (in)		H1 (mm) (in)		Shipping Weight (kg) (lb)		Packaging Volume LxWxH	
									(m)	(ft)
F710	3/4	3	475	18.7	380	14.9	8.3	18	0.31x0.31x0.19	1.02x1.02x0.62
F720	1	4	600	23.6	460	18.1	10.1	22	0.54x0.28x0.22	1.77x0.92x0.72
F730	1.5	6	740	29.1	594	23.4	15.5	34	0.55x0.32x0.28	1.80x1.05x0.92
F740	2	8	900	35.4	755	29.7	23.4	52	0.63x0.42x0.30	2.07x1.38x0.94
F750LF	3	8	930	36.6	765	30.1	32.5	72	0.67x0.55x0.28	2.20x1.80x0.92
F750	3	8	930	36.6	765	30.1	32.5	72	0.67x0.55x0.28	2.20x1.80x0.92
F755	3*4	12	1550	61.0	1285	50.6	75.0	165	1.37x0.77x0.22	4.49x2.53x0.72
F760	4	16	1765	69.5	1495	58.8	97.5	215	1.26x0.77x0.26	4.13x2.53x0.85
F770	6	20	1996	78.6	1671	65.8	187.0	412	1.40x1.20x1.00	4.60x3.94x3.28
F775	6	24	2300	90.5	1940	76.4	230.0	507	1.70x0.90x1.00 Cyclone 1.30x0.77x0.80 Tank	5.6x3.0x3.0 Cyclone 4.3x2.5x2.6 Tank
F780	8	30	2897	114.0	2492	98.1	328.0	723	2.10x0.95x1.15 Cyclone 1.40x0.77x1.00 Tank	6.9x3.1x3.8 Cyclone 4.6x2.5x3.3 Tank

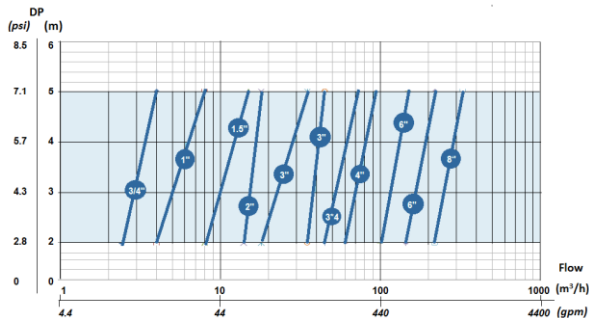


SAND SEPARATOR (Hydrocyclone): Series F700

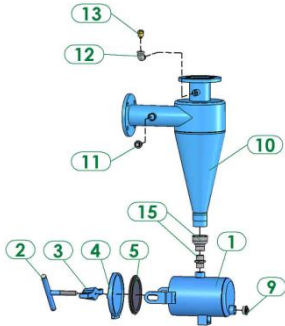
Model	In/out ØD (in)	Flow rate (m ³ /h) (GPM)		Sediment deposit (lt) (gal)	
F710	3/4	2.4 – 4	10.6 – 17.2	1.5	0.4
F720	1	3.5 – 6	15.4 – 26.4	2.5	0.6
F730	1.5	6.5 – 10	28.6 – 44	5	2.5
F740	2	11 – 19	48.4 – 83.6	5	2.5
F750LF	3	20 – 35	88 – 154	5	2.5
F750	3	29 – 45	127.6 – 198	5	2.5
F755	3*4	45 – 73	198 – 321	30	8
F760	4	60 – 93	264 – 409	60	16
F770	6	93 – 155	409 – 682	150	40 (60)*
F775	6	145 – 225	638 – 990	150(220*)	40 (60)*
F780	8	200 – 330	880 – 1452	300	60

* Optional

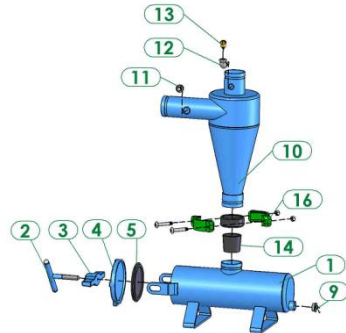
** Recommended headloss: 2- 5 m (2.84 – 7.11 psi)



SAND SEPARATORS (Hydrocyclone): Series F700



Model: F710-F755

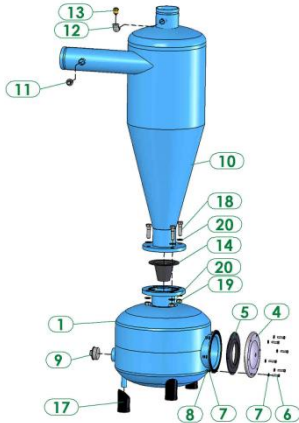


Model: F750LF

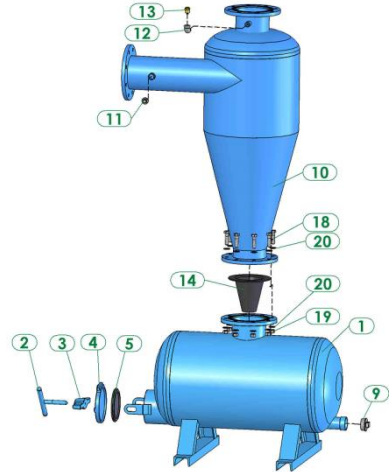
SAND SEPARATOR (Hydrocyclone): Series F700

Part Breakdown		Filter Model						
FILTER		F710#001M	F720#001M	F730#002M	F740#005M	F750LF#010V	F750#005M	F755#030M
Filter inlet/outlet		3/4"	1"	1 1/2"	2"	3"	3"	4"x 3"
Under flow chamber capacity Liter		1.5	1.5	2.5	5	10	5	30
Underflow chamber		FT001M	FT001M	FT002M	FT005M	FT010V	FT005M	FT030M
1	Chamber body	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Handle	E6020104000	E6020104000	E6020104000	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012004000-P	6012004000-P	6012004000-P	6012006000-P	6012006000-P	6012006000-P	6012108000-P
4	Cover	5320010400-P	5320010400-P	5320010400-P	5320200601-P	5320200601-P	5320200601-P	5320010801-P
5	Cover gasket	5312090600-010	5312090600-010	5312090600-010	5311150600-040	5311150600-040	5311150600-040	5312200600-151
9	Plug	4180056501	4180056501	4180056501	4180076501	4180106501	4180076501	4180156501
Separator		----	----	----	----	----	----	----
10	Hydrocyclone Body	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Plug	----	----	4180056501	4180076501	4180076501	4180076501	4180076501
12	Elbow	----	----	4170050300	4170050300	4170050300	4170050300	4170050300
13	Anti Vacuum valve	----	----	E5412013901	E5412013901	E5412013901	E5412013901	E5412013901
14	Rubber Insert	----	----	----	----	5312080600-450	----	----
15	Steel Insert	E4200100300	E4200100300	E4200150300	E4200200301	----	E4200200301	E4200200300
16	Quick Coupling	----	----	----	----	4150103000-01P	----	----

SAND SEPARATORS (Hydrocyclone): Series F700



Model: F760



Model: F770-F780

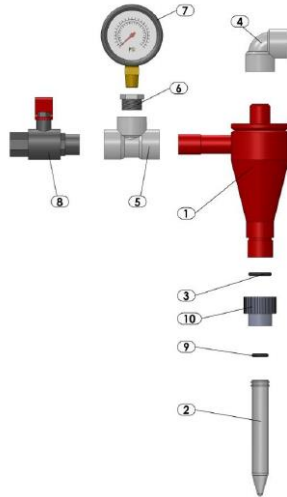
SAND SEPARATOR (Hydrocyclone): Series F700

Part Breakdown		Filter Model			
FILTER		F760#060F	F770#150F	F775#150F	F780#300F
Filter inlet/outlet		4"	6"	6"	8"
Chamber capacity Liter		60	150	150	300
Underflow chamber		FT060F	FT150F	FT150F	FT300F
2	Handle	----	E6020106000	E6020106000	E6020106000
3	Tightening bracket	----	6012006000-P	6012006000-P	6012006000-P
4	Cover	5320010600-P	5320200601-P	5320200601-P	5320200601-P
5	Cover gasket	5311150600-045	5311150600-040	5311150600-040	5311150600-040
6	Bolt	4102110401-030	----	----	----
7	Washer	4122110401	----	----	----
8	Nut	4112110401	----	----	----
9	Plug	4180206501	4180206501	4180206501	----
10	Hydrocyclone Body	N/A	N/A	N/A	N/A
11	Plug	4180076501	4180076501	4180076501	4180076501
12	Elbow	4170050300	4170050300	4170050300	4170050300
13	Anti Vacuum valve	E5412013901	E5412013901	E5412013901	E5412013901
14	Rubber Insert	5312100600	5312150600	5312150600	5312150600
17	Rubber Base for Legs	5312007600-068	----	----	----
18	Bolt	4102160301-070	4102160301-070	4102160301-070	4102160301-070
19	Nut	4112160301	4112160301	4112160301	4112160301
20	Washer	4122160301	4122160301	4122160301	4122160301

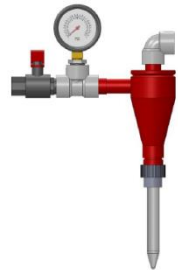
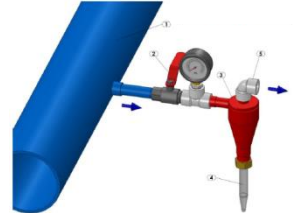


SAND SEPARATORS (Hydrocyclone): Series F700

Hydrocyclone tester



- 1 Body
- 2 Test tube
- 3 O-Ring
- 4 Outlet
- 5 T-connector
- 6 Adaptor
- 7 Pressure gauge
- 8 Ball valve
- 9 O-Ring
- 10 Test tube holder



SAND SEPARATOR (Hydrocyclone): Series F700

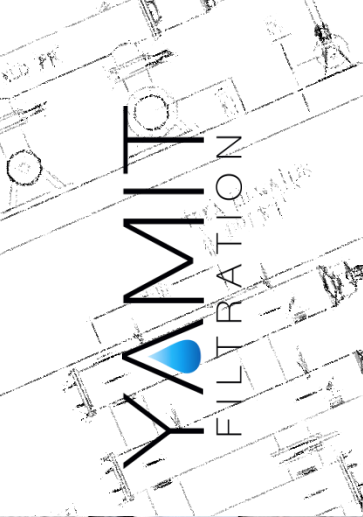
NEW
"HEAVY DUTY"

Hydrocyclone 3" "Heavy Duty"

Yamit has the pleasure to announce the new hydrocyclone filter 3" "Heavy Duty".

- Large rubber cone for maximum protection
- Compatible with the standard sedimentation tank
- Flow Rate: 20-35 m³/h





Semi-Automatic Filters

SEMI AUTOMATIC FILTERS – Series SA500C

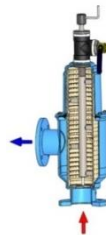
Applications: Semi-automatic compact suction filters with a 90° inlet/outlet.

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder .
- **Available filtration grades:** from 120 micron
- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).
- **Minimum operating working pressure during flushing:** 1 bar (14.5 psi)
- Equipped with a mechanical DP which indicates when the pressure difference of 5m is exceeded
- **Clean screen pressure loss:** up to 0.1 bar (1.45psi)

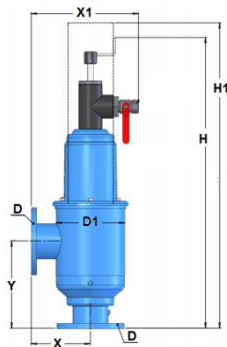
Operation:

Water flows through the inlet along and through the cylindrical screen trapping the solids on the screen. The filter can be manually cleaned while still pressurized and without removing the screen. The operator cleans the screen by opening the flush valve and turning the handle, fully up and then back down. As a result the suction nozzles traverse the entire screen removing trapped debris. The whole process takes a few seconds.



SEMI AUTOMATIC FILTERS – Series SA500C

Model	In/Out ØD (mm) (in)		ØD1 (in)	X (mm) (in)		X1 (mm) (in)		Y (mm) (in)		H (mm) (in)		H1 (mm) (in)		Shipping Weight (kg) (lb)		Packaging Volume (m) (ft)	
SA502C	50	2	6	123	4.83	270	10.62	174	6.9	590	23.2	637	25.1	12	26	0.3x0.3x0.6	1.0x1.0x2.0
SA503C	75	3	6	164	6.46	307	12.07	197	7.7	790	31.1	849	33.4	24	53	0.3x0.3x0.8	1.0x1.0x2.6
SA504C	100	4	8	190	7.46	343	13.90	280	11.0	933	36.7	980	38.6	30	66	0.35x0.35x1.0	1.1x1.1x3.2

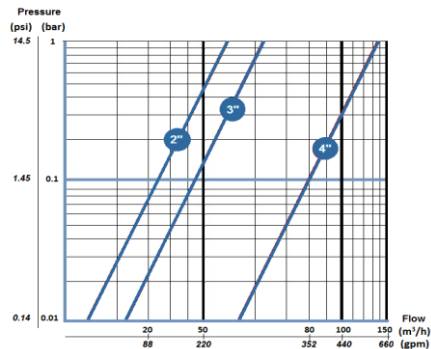


SEMI AUTOMATIC FILTERS – Series SA500C

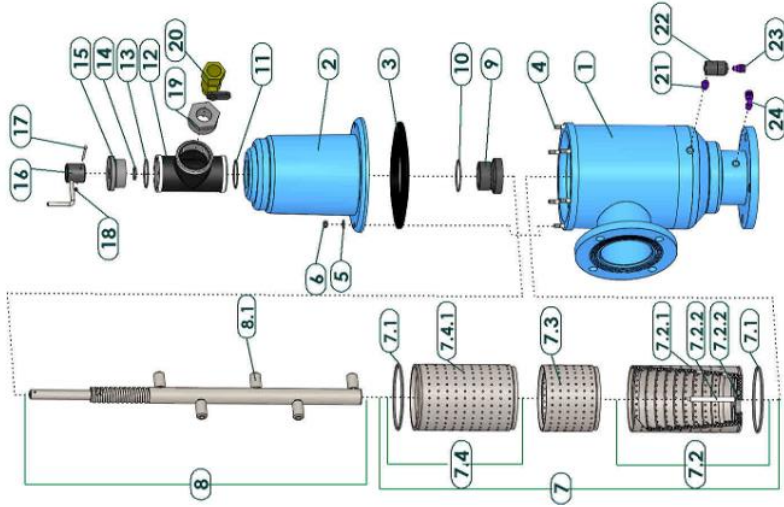
Model	In/Out ØD (mm) (in)		Maximum Flow Rate (m ³ /h) (GPM)		Flushing Flow rate (m ³ /h) (GPM)		Screen area (cm ²) (in ²)	
SA502C	50	2	25	110	6	26	740	115
SA503C	75	3	45	200	8	35	1480	229
SA504C	100	4	80	350	10	44	1480	229

* Maximum recommended Flow Rate - 120 micron in good quality water

Pressure loss at 120 micron



SEMI AUTOMATIC FILTERS – Series SA500C



SEMI AUTOMATIC FILTERS – Series SA500C

Part Breakdown		Filter Model		
FILTER		SA502C (2")	SA503C (3")	SA504C (4")
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	Gasket for body	5311150100	5311150100	5311150100
4	Bolt	4102113001-030	4102113001-030	5292113001-029
5	Washer	4121083001	4121083001	4121083001
6	Nut	4112110401	4112110401	4112110401
7	Fine screen	E7003601003-01##	E7003602004-01##	E7003603000-01##
7.1	O-Ring	4081126100-250	4081126100-250	4081126100-250
7.2	Fine screen upper section	----	E5003600101-01##-01	E5003600101-01##-01
7.2.1	Fine screen	W5003600406-01##	W5003600101-01##	W5003600101-01##
7.2.2	Screen wheel	5021610300	5021610300	5021610300
7.2.3	Centralize shaft f/dirt col.	5131301002	5131301002	5131301002
7.3	Fine screen middle sec.			W5003600301-01##
7.4	Fine screen lower section		E5003600201-01##-01	E5003600201-01##-01
7.4.1	Fine screen lower section		W5003600201-01##	W5003600201-01##
8	Dirt collector	E7101610202-01	E7101610401-01	E7101610501-01
8.1	Suction nozzle	5121610102	5121610102	5121610102
9	Spiral drive nut	6156102000	6156102000	6156102000

SEMI AUTOMATIC FILTERS – Series SA500C

Part Breakdown		Filter Model		
FILTER		SA502C (2")	SA503C (3")	SA504C (4")
10	O-Ring	4081063100-230	4081063100-230	4081063100-230
11	O-Ring	4081050100-226	4081050100-226	4081050100-226
12	Tee connector	4190206500	4190206500	4190206500
13	O-Ring	4081053100-138	4081053100-138	4081053100-138
14	O-Ring	4081020100-211	4081020100-211	4081020100-211
15	Upper plug	6076102000	6076102000	6076102000
16	Driving handle	E6043000001	E6043000001	E6043000001
17	Bolt	4101043001-045	4101043001-045	4101043001-045
18	Nut	4111043002	4111043002	4111043002
19	Bushing	4230206501	4230206502	4230206503
20	Ball valve	4504005100-01	4504007100-01	4504010100-01
21	Nipple	4640514182	4640514182	4640514182
22	Pressure indicator	E5412056300	E5412056300	E5412056300
23	Male connector	4640714085	4640714085	4640714085
24	Male elbow	4640614082	4640614082	4640614082

SEMI AUTOMATIC FILTERS – Series SA500B

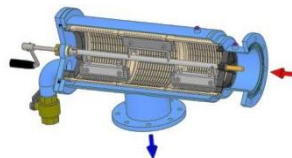
Applications: Semi –automatic brush filters

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder .
- **Available filtration grades:** from 300 micron
- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).
- **Minimum operating working pressure during flushing:** 1 bar (14.5 psi)
- **Clean screen pressure loss:** up to 0.1 bar (1.45psi)

Operation:

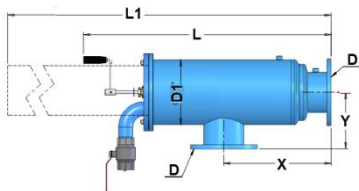
Water flows through the inlet and through the cylindrical screen trapping the solids on the screen. The filter can be manually cleaned while still pressurized and without removing the screen. The operator cleans the screen by opening the flush valve and turning the handle, fully up and then back down. As a result the brushes traverse the entire screen removing trapped debris. The entire process lasts for just a few seconds.



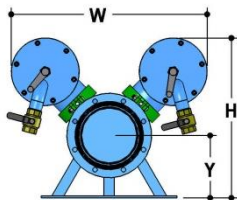
SEMI AUTOMATIC FILTERS – Series SA500B

Model	In/Out ØD (in)	ØD1 (in)	X (mm) (in)		Y (mm) (in)		L (mm) (in)		L1 (mm) (in)		H (mm) (in)		W (mm) (in)		Shipping Weight (kg) (lb)		Packaging Volume L x W x H (m) (ft)	
SA504B	4	10	350	13.8	237	9.3	833	32.8	1060	41.7					78	172	1.1x0.6x0.6	3.5x2.0x2.1
SA506B	6	10	450	17.7	237	9.3	1038	40.9	1460	57.5					93	205	1.1x0.6x0.6	3.5x2.0x2.1
SA508B	8	10	550	21.7	237	9.3	1236	48.7	1860	73.2					110	243	1.3x0.6x0.6	4.4x2.0x2.1
SA510B	10	10	1100	43.3	250	9.8	1293	50.9	1720	67.7	719	28.2	937	36.9	219	483	1.3x1.3x1.0	4.4x4.3x3.3
SA512B	12	12	1250	47.2	280	11.0	1765	59.7	2140	84.3	770	30.2	973	38.3	337	743	1.5x1.3x1.0	4.9x4.3x3.3
SA514B	14	14	1420	55.9	315	12.4	1735	68.3	2360	92.9	813	32.0	996	39.2	338	745	1.8x1.2x1.2	5.9x3.9x3.9

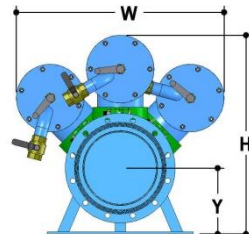
* Backwash flow: 176 gpm (40 m³/h)



Model SA504B-SA508B



Model SA510B - (2*506B)
Model SA512B - (2*508B)

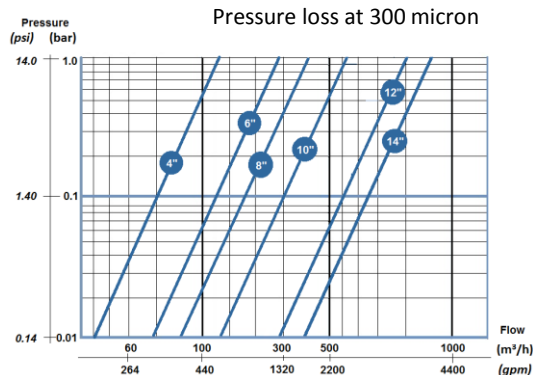


Model SA514B - (3*508B)

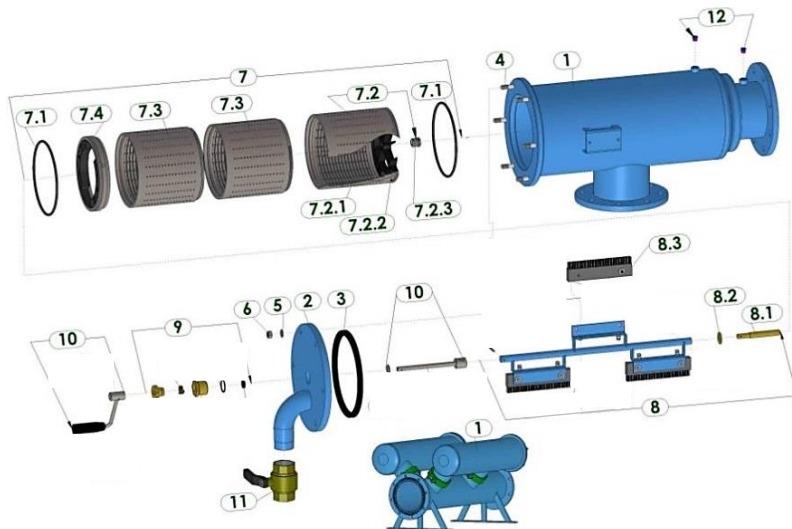
SEMI AUTOMATIC FILTERS – Series SA500B

Model	In/Outlet ØD (mm) (in)		Max. rec. Flow rate (m ³ /h) gpm)		Flushing Flow Rate (m ³ /h) gpm)		Screen Area (cm ²) (in ²)	
SA504B	100	4	80	352	30	132	2265	351
SA506B	150	6	150	660	30	132	3398	527
SA508B	200	8	250	1101	30	132	4530	702
SA510B	250	10	300	1320	30	132	6795	1053
SA512B	300	12	600	2642	30	132	9060	1404
SA514B	350	14	750	3302	30	132	13591	2107

* Minimum recommended Flow Rate – 300 micron in good quality water



SEMI AUTOMATIC FILTERS – Series SA500B



SEMI AUTOMATIC FILTERS – Series SA500B

Part Breakdown		Filter Model		
FILTER		SA504B (4")	SA506B (6")	SA508B (8")
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-048
5	Washer	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401
7	Fine screen	E7005602003-01##	E7005603002-01##	E7005604001-01##
7.1	O-Ring	4081202100-445	4081202100-445	4081202100-445
7.2	Fine screen upper sec	E5005600100-01##-01	E5005600100-01##-01	E5005600100-01##-01
7.2.1	Fine screen upper section	W5005600100-01##	W5005600100-01##	W5005600100-01##
7.2.2	Screen wheel	5021640500	5021640500	5021640500
7.2.3	Screen bearing for shaft	5172301700	5172301700	5172301700
7.3	Fine screen middle sec.	W5005600300-01##	W5005600300-01##	W5005600300-01##
7.4	Lower screen adaptor	E5005601002-02	E5005601002-02	E5005601002-02
7.4.1	Lower screen adaptor	E5005601002-01	E5005601002-01	E5005601002-01
8	Brush shaft w/brush units	E7152250201-01	E7152250301-01	E7152250401-01
8.1	Centralize shaft	5131391700	5131391700	5131391700
8.2	Washer	6143901400	6143901400	6143901400
8.3	Brush unit	5150640100	5150640100	5150640100

SEMI AUTOMATIC FILTERS – Series SA500B

Part Breakdown		Filter Model		
FILTER		SA504B (4")	SA506B (6")	SA508B (8")
8.4	Bolt	4101053001-035	4101053001-035	4101053001-035
8.5	Washer	4121053005	4121053005	4121053005
8.6	Nut	4111053002	4111053002	4111053002
8.7	Nut	4112103001	4112103001	4112103001
8.8	Bolt	4102103101-020	4102103101-020	4102103101-020
8.9	Bolt	4101053001-030	4101053001-030	4101053001-030
8.10	Pin	4132053001	4132053001	4132053001
9	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01
9.1	U-Ring	4082013100	4082013100	4082013100
9.2	O-Ring	4081030100	4081030100	4081030100
9.3	Sealing rope housing	5182391300	5182391300	5182391300
9.4	Sealing rope	5319000900	5319000900	5319000900
9.5	Tightening nut for sealing rope	5181391300	5181391300	5181391300
10	Driving handle + shaft	E5136301300-01	E5136301300-01	E5136301300-01
10.1	Connecting shaft	5136301300	5136301300	5136301300
10.2	Washer	4121143001	4121143001	4121143001
10.3	Driving handle	E6043000000	E6043000000	E6043000000
11	Ball valve	4504020100-02	4504020100-02	4504020100-02
12	Plug	4640314002	4640314002	4640314002

SEMI AUTOMATIC FILTERS – Series SA500B

Part Breakdown		Filter Model		
FILTER		SA510B (10")	SA512B (12")	SA514B (14")
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-048
5	Washer	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401
7	Fine screen	E7005603002-01##	E7005604001-01##	E7005604001-01##
7.1	O-Ring	4081202100-445	4081202100-445	4081202100-445
7.2	Fine screen upper section	E5005600100-01##-01	E5005600100-01##-01	E5005600100-01##-01
7.2.1	Fine screen upper section	W5005600100-01##	W5005600100-01##	W5005600100-01##
7.2.2	Screen wheel	5021640500	5021640500	5021640500
7.2.3	Screen bearing for shaft	5172301700	5172301700	5172301700
7.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##
7.4	Lower screen adaptor	E5005601002-02	E5005601002-02	E5005601002-02
7.4.1	Lower screen adaptor	E5005601002-01	E5005601002-01	E5005601002-01
8	Brush shaft w/brush units	E7152250301-01	E7152250401-01	E7152250401-01
8.1	Centralize shaft	5131391700	5131391700	5131391700
8.2	Washer	6143901400	6143901400	6143901400
8.3	Brush unit	5150640100	5150640100	5150640100

SEMI AUTOMATIC FILTERS – Series SA500B

Part Breakdown		Filter model		
FILTER		SA510B (10")	SA512B (12")	SA514B (14")
8.4	Bolt	4101053001-035	4101053001-035	4101053001-035
8.5	Washer	4121053005	4121053005	4121053005
8.6	Nut	4111053002	4111053002	4111053002
8.7	Nut	4112103001	4112103001	4112103001
8.8	Bolt	4102103101-020	4102103101-020	4102103101-020
8.9	Bolt	4101053001-030	4101053001-030	4101053001-030
8.10	Pin	4132053001	4132053001	4132053001
9	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01
9.1	U-Ring	4082013100	4082013100	4082013100
9.2	O-Ring	4081030100	4081030100	4081030100
9.3	Sealing rope housing	5182391300	5182391300	5182391300
9.4	Sealing rope	5319000900	5319000900	5319000900
9.5	Tightening nut for sealing rope	5181391300	5181391300	5181391300
10	Driving handle + shaft	E5136301300-01	E5136301300-01	E5136301300-01
10.1	Connecting shaft	5136301300	5136301300	5136301300
10.2	Washer	4121143001	4121143001	4121143001
10.3	Driving handle	E6043000000	E6043000000	E6043000000
11	Ball valve	4504020100-02	4504020100-02	4504020100-02
12	Plug	4640314002	4640314002	4640314002

SEMI AUTOMATIC FILTERS – Series SA500S

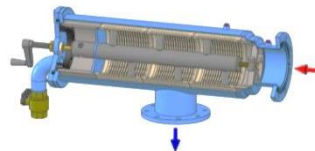
Applications: Semi-automatic suction filters

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder
- **Available filtration:** from 120 micron
- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).
- **Minimum operating working pressure during flushing:** 1 bar (14.5 psi)
- **Clean screen pressure loss:** up to 0.1 bar (1.45psi)

Operation:

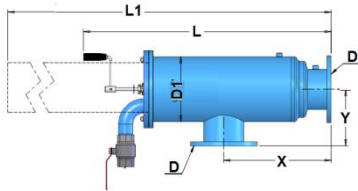
Water flows through the inlet along and through the cylindrical screen trapping the solids on the screen. The filter can be manually cleaned while still pressurized and without removing the screen. The operator cleans the screen by opening the flush valve and turning the handle, fully up and the back down. As a result the suction nozzles traverse the entire screen removing trapped debris. The whole process takes a few seconds.



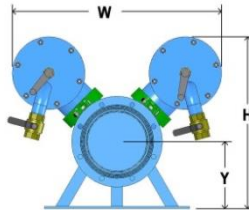
SEMI AUTOMATIC FILTERS – Series SA500S

Model	In/Out ØD (mm) (in)		ØD1 (in)	X (mm) (in)		Y (mm) (in)		L (mm) (in)		L1 (mm) (in)		H (mm) (in)		W (mm) (in)		Shipping Weight (kg) (lb)		Packaging Volume L x W x H (m) (ft)	
SA504S	100	4	10	350	13.8	237	9.3	958	37.7	1400	55.1					83	183	1.1x0.6x0.6	3.5x2.0x2.1
SA506S	150	6	10	450	17.7	237	9.3	1163	45.8	1800	70.9					102	225	1.3x0.6x0.6	4.4x2.0x2.1
SA508S	200	8	10	550	21.7	237	9.3	1361	53.6	2200	86.6					119	262	1.5x0.6x0.6	4.9x2.0x2.1
SA510S	250	10	10	1100	43.3	250	9.8	1421	55.9	2060	81.1	719	28.2	937	36.9	229	505	1.3x1.3x1.0	4.3x4.3x3.3
SA512S	300	12	12	1200	47.3	280	11.0	1641	64.6	2480	97.6	767	30.2	973	38.3	262	578	1.5x1.3x1.0	4.9x4.3x3.3
SA514S	350	14	14	1420	55.9	315	12.4	1861	73.3	2700	106.3	952	37.5	996	39.2	353	778	1.8x1.2x1.2	5.9x3.9x3.9

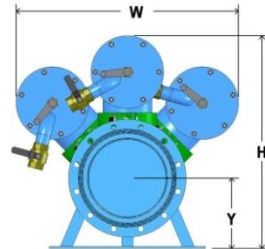
* Backwash flow: 176 gpm (40 m³/h)



Model SA504S-SA508S



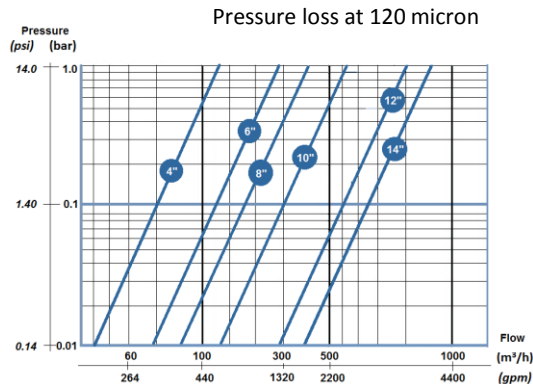
Model SA510S - (2*506S)
Model SA512S - (2*508S)



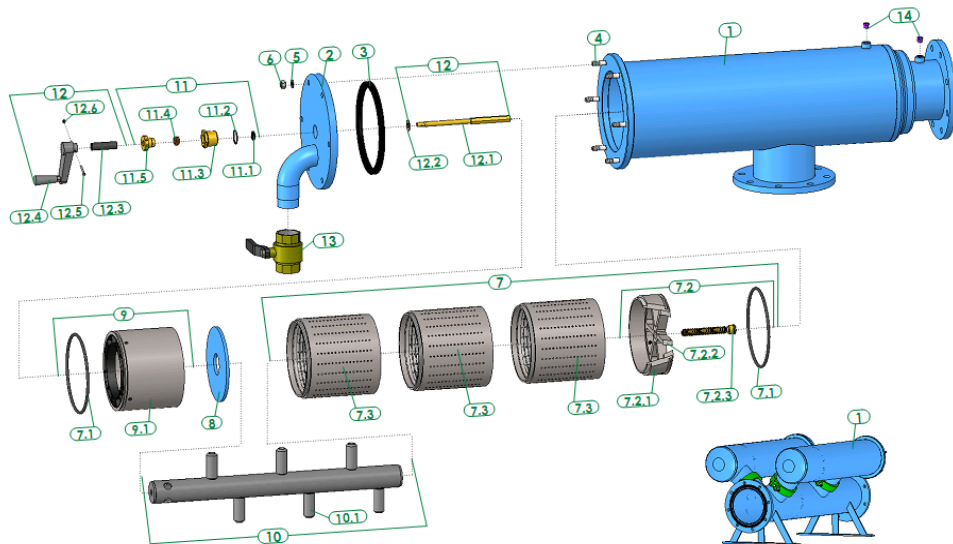
Model SA514S - (3*508S)

Model	In/Outlet ØD (mm) (in)		Max. rec. Flow rate (m ³ /h) (gpm)		Flushing Flow Rate (m ³ /h) (gpm)		Screen Area (cm ²) (in ²)	
SA504B	100	4	80	352	30	132	2265	351
SA506B	150	6	150	660	30	132	3398	527
SA508B	200	8	250	1101	30	132	4530	702
SA510B	250	10	300	1320	30	132	6795	1053
SA512B	300	12	600	2642	30	132	9060	1404
SA514B	350	14	750	3302	30	132	13591	2107

* Maximum recommended Flow Rate - 120 micron in good quality water



SEMI AUTOMATIC FILTERS – Series SA500S



SEMI AUTOMATIC FILTERS – Series SA500S

Part Breakdown		Filter Model		
FILTER		SA504S (4")	SA506S (6")	SA508S (8")
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-048
5	Washer	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401
7	Fine screen	E7005602002-01##	E7005603001-01##	E7005604000-01##
7.1	O-Ring	4081202100-445	4081202100-445	4081202100-445
7.2	Upper screen adaptor	E5005600901-01	E5005600901-01	E5005600901-01
7.2.1	Upper screen adaptor	5005600901	5005600901	5005600901
7.2.2	Screen wheel	5021600501	5021600501	5021600501
7.2.3	Spiral drive shaft	5134391500	5134391500	5134391500
7.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##
8	Flushing chamber plate	5023010502-P	5023010502-P	5023010502-P
9	Flushing chamber	E5005601100-02	E5005601100-02	E5005601100-02
9.1	Flushing chamber	E5005601100-01	E5005601100-01	E5005601100-01
10	Dirt collector	E7103610400-01	E7103610600-01	E7103610800-01
10.1	Suction nozzle	5121610301	5121610301	5121610301

SEMI AUTOMATIC FILTERS – Series SA500S

Part Breakdown		Filter Model		
FILTER		SA504S (4")	SA506S (6")	SA508S (8")
11	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01
11.1	U-Ring	4082013100	4082013100	4082013100
11.2	O-Ring	4081030100	4081030100	4081030100
11.3	Sealing rope housing	5182391300	5182391300	5182391300
11.4	Sealing rope	5319000900	5319000900	5319000900
11.5	Tightening nut for sealing rope	5181391300	5181391300	5181391300
12	Driving handle + shaft	E5130391601-01	E5130391601-01	E5130391601-01
12.1	Connecting shaft	5136391601	5136391601	5136391601
12.2	Washer	4121143001	4121143001	4121143001
12.3	Sleeve	6046100000	6046100000	6046100000
12.4	Driving handle	4820000000	4820000000	4820000000
12.5	Bolt	4101043001-035	4101043001-035	4101043001-035
12.6	Nut	4111043002	4111043002	4111043002
13	Ball valve	4504020100-02	4504020100-02	4504020100-02
14	Plug	4640314002	4640314002	4640314002

SEMI AUTOMATIC FILTERS – Series SA500S

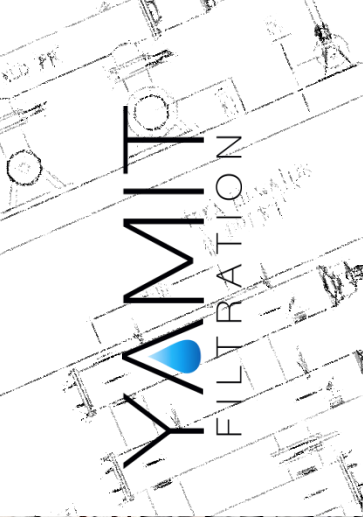
Part Breakdown		Filter Model		
FILTER		SA510S (10")	SA512S (12")	SA514S (14")
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-048
5	Washer	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401
7	Fine screen	E7005603001-01##	E7005604000-01##	E7005604000-01##
7.1	O-Ring	4081202100-445	4081202100-445	4081202100-445
7.2	Upper screen adaptor	E5005600901-01	E5005600901-01	E5005600901-01
7.2.1	Upper screen adaptor	5005600901	5005600901	5005600901
7.2.2	Screen wheel	5021600501	5021600501	5021600501
7.2.3	Spiral drive shaft	5134391500	5134391500	5134391500
7.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##
8	Flushing chamber plate	5023010502-P	5023010502-P	5023010502-P
9	Flushing chamber	E5005601100-02	E5005601100-02	E5005601100-02
9.1	Flushing chamber	E5005601100-01	E5005601100-01	E5005601100-01
10	Dirt collector	E7103610600-01	E7103610800-01	E7103610800-01
10.1	Suction nozzle	5121610301	5121610301	5121610301

SEMI AUTOMATIC FILTERS – Series SA500S

Part Breakdown		Filter Model		
FILTER		SA510S (10")	SA512S (12")	SA514S (14")
11	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01
11.1	U-Ring	4082013100	4082013100	4082013100
11.2	O-Ring	4081030100	4081030100	4081030100
11.3	Sealing rope housing	5182391300	5182391300	5182391300
11.4	Sealing rope	5319000900	5319000900	5319000900
11.5	Tightening nut for sealing rope	5181391300	5181391300	5181391300
12	Driving handle + shaft	E5130391601-01	E5130391601-01	E5130391601-01
12.1	Connecting shaft	5136391601	5136391601	5136391601
12.2	Washer	4121143001	4121143001	4121143001
12.3	Sleeve	6046100000	6046100000	6046100000
12.4	Driving handle	4820000000	4820000000	4820000000
12.5	Bolt	4101043001-035	4101043001-035	4101043001-035
12.6	Nut	4111043002	4111043002	4111043002
13	Ball valve	4504020100-02	4504020100-02	4504020100-02
14	Plug	4640314002	4640314002	4640314002

SEMI AUTOMATIC FILTERS – Series SA500S





Automatic Hydraulic Filters

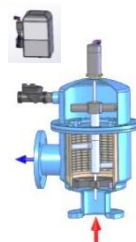
Applications: Compact screen filters with automatic back flushing

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder.
- **Available filtration grades:** 80 - 3000 microns
- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic, Threaded socket and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).
- **Minimum operating working pressure during flushing:** 2 bar (28.4 psi)
- Equipped with an electronic control system (6V DC, 12 V DC, 24V AC)

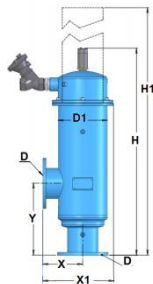
Operation:

Cleaning of the screen is performed automatically once the pressure loss (ΔP) across the filter has reached the preset value up to 0.5 bar (7psi). The flushing valve opens, pressure is released from the hydraulic piston, and debris laden water is discharged through the flushing valve. Pressure in the hydraulic motor chamber and the dirt collector is significantly lowered causing the dirt collector nozzles move along and rotate cleanings the whole internal screen surface. The flushing cycle takes 5 seconds. The flushing valve closes at the end of the cycle, pressure reapplied to the piston, moving the nozzles back to their rest position, and the filter is cleaned. During the whole process water supply is uninterrupted.



AUTOMATIC HYDRAULIC FILTERS – Series AF200

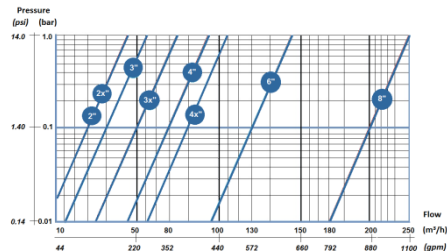
Model	In/Out ØD (mm) (in)		ØD1 (in)	X (mm) (in)		X1 (mm) (in)		Y (mm) (in)		H (mm) (in)		H1 (mm) (in)		Shipping Weight (kg) (lb)		Packing Volume L*W*H (m) (ft)	
AF202	50	2	10	220	8.7	465	18.3	197	7.8	507	19.9	475	18.7	43	95	0.6x0.6x0.8	1.9x1.9x2.5
AF202X	50	2	10	220	8.7	465	18.3	197	8.7	623	24.5	590	23.2	47	103	0.6x0.6x0.9	1.9x1.9x2.9
AF203	75	3	10	220	8.7	465	18.3	197	8.7	507	19.9	475	18.7	45	95	0.6x0.6x0.8	1.9x1.9x2.5
AF203X	75	3	10	220	8.7	465	18.3	210	8.3	641	25.2	590	23.2	48	105	0.6x0.6x0.9	1.9x1.9x2.9
AF204	100	4	10	220	8.7	465	18.3	210	8.3	641	25.2	610	24.0	50	110	0.6x0.6x0.9	1.9x1.9x2.9
AF204X	100	4	10	220	8.7	585	23.0	315	12.4	920	36.2	1145	45.1	70	154	0.7x0.7x1.2	2.2x2.2x4.0
AF206	150	6	10	220	8.7	585	23.0	400	15.8	1150	45.3	1575	62.0	90	198	0.7x0.7x1.4	2.2x2.2x4.3
AF208	200	8	16	303	11.9	642	25.3	450	17.7	1219	48.0	1700	66.9	150	331	0.8x0.8x1.4	2.9x2.7x4.7



AUTOMATIC HYDRAULIC FILTERS – Series AF200

Pressure loss at 120 micron

Model	In/Out ØD (mm) (in)		Max. Flow rate (m³/h) (gpm)		Screen Area (cm²) (in²)		Flushing Flow rate (m³/h) (gpm)		Flushing Vol. (5 sec) (m³) (gal)	
AF202	50	2	30	132	1100	170	6	26	0.0083	2.20
AF202X	50	2	30	132	1630	253	6	26	0.0083	2.20
AF203	75	3	40	176	1100	170	6	26	0.0083	2.20
AF203X	75	3	50	220	1630	253	6	26	0.0083	2.20
AF204	100	4	80	352	1630	253	6	26	0.0083	2.20
AF204X	100	4	90	396	2770	430	20	87	0.0278	7.34
AF206	150	6	130	572	4120	640	20	87	0.0278	7.34
AF208	200	8	200	880	5240	812	20	87	0.0278	7.34



* Maximum recommended Flow Rate - 120 micron in good quality water

AUTOMATIC HYDRAULIC FILTERS – Series AF200

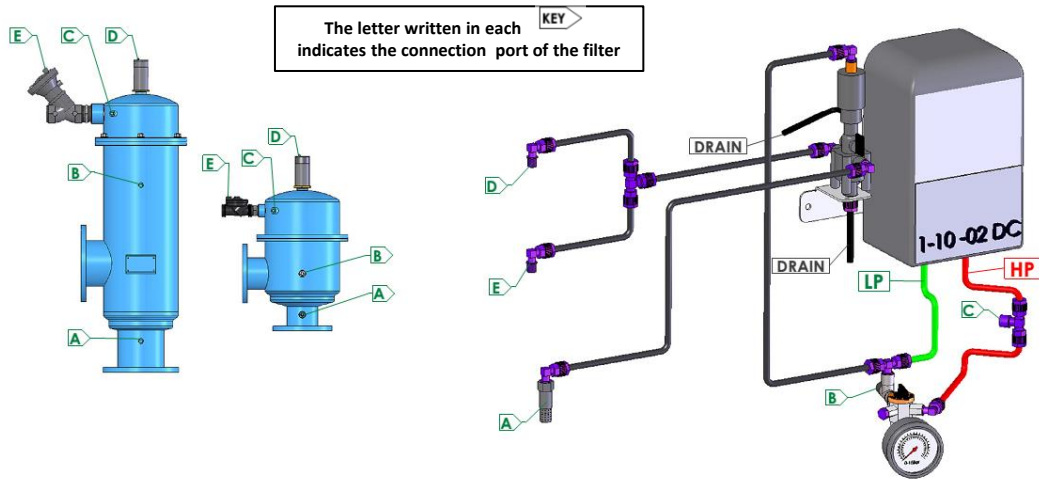
Maximum Flow (m³/h)

	Water quality	AF-202 2"	AF-202X 2"X	AF-203 3"	AF-203X 3"X	AF-204 4"	AF-204X 4"X	AF-206 6"	AF-208 8"
200μ	Good	25	30	40	50	80	90	130	200
	Regular	20	25	35	45	70	80	90	170
	Bad	15	20	25	35	40	50	70	130
100-150μ	Good	25	30	40	50	80	90	130	200
	Regular	15	20	25	35	40	50	70	150
	Bad	10	15	20	25	35	45	60	120

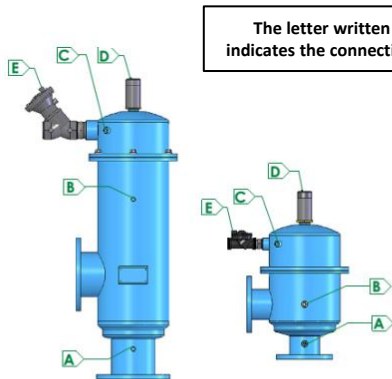
Water quality	ppm = mg/l
Good	< 15
Regular	15 – 50
Bad	50 – 100

AUTOMATIC HYDRAULIC FILTERS – Series AF200

AF200-DC Control System Setup

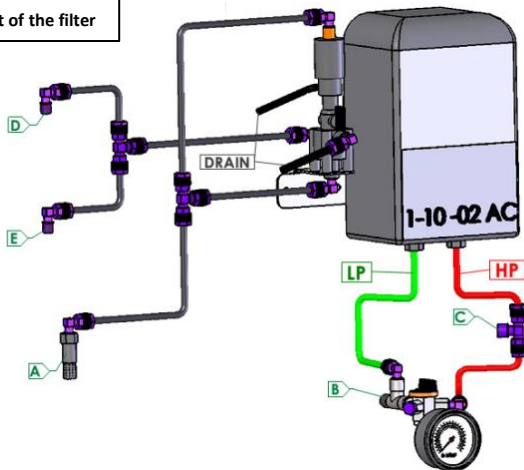


AUTOMATIC HYDRAULIC FILTERS – Series AF200

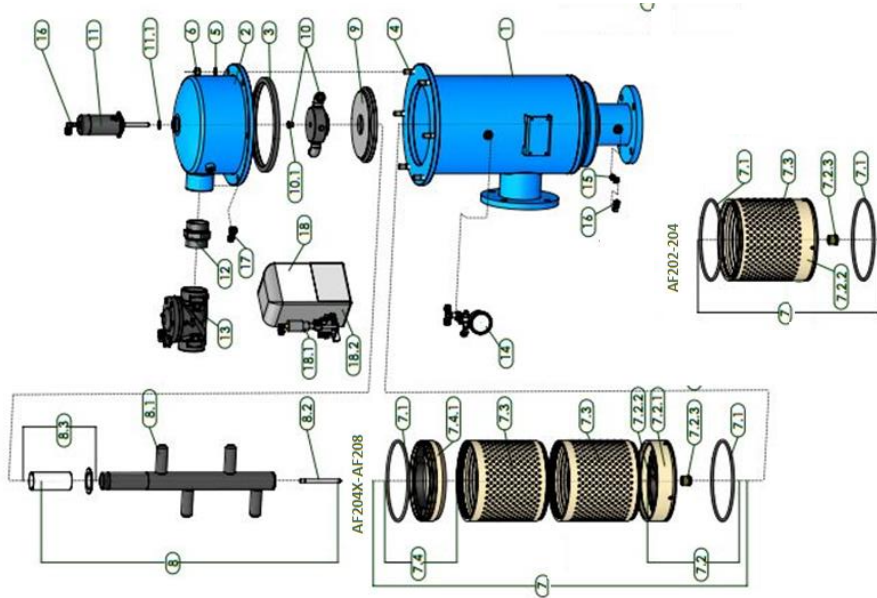


The letter written in each
indicates the connection port of the filter

KEY



AUTOMATIC HYDRAULIC FILTERS – Series AF200



AUTOMATIC HYDRAULIC FILTERS – Series AF200

Part Breakdown		Filter Model			
FILTER		AF202 (2")	AF202X (2")	AF203 (3")	AF203X (3")
1	Filter body	N/A	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100	5311250100
4	Stud	5292143001-043	5292143001-043	5292143001-043	5292143001-043
5	Washer	4121123001	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401	4112140401
7	Fine screen	E7005601000-01##	E7005601001-01##	E7005601000-01##	E7005601001-01##
7.1	O-Ring	4081202100-445	4081202100-445	4081202100-445	4081202100-445
7.2.2	Screen wheel	5021640500	5021640500	5021640500	5021640500
7.2.3	Screen bearing f/dirt collec	5172391000	5172391000	5172391000	5172391000
7.3	Fine screen	W5005600400-01##	W5005600401-01##	W5005600400-01##	W5005600401-01##
8	Dirt collector	E7101610200-01	E7101610201-01	E7101610200-01	E7101610201-01
8.1	Suction nozzle	5121610101	5121610101	5121610101	5121610101
8.2	Dirt collector shaft	5131300900	5131300901	5131300900	5131300901
8.3	Dirt collector sleeve	5171303301	5171303302	5171303301	5171303302
9	Flushing chamber	E5023010500-01	E5023010500-01	E5023010500-01	E5023010500-01

AUTOMATIC HYDRAULIC FILTERS – Series AF200

Part Breakdown		Filter Model			
FILTER		AF202 (2")	AF202X (2")	AF203 (3")	AF203X (3")
10	Hydraulic motor	E5141630200-01	E5141630200-01	E5141630200-01	E5141630200-01
10.1	Hydraulic motor bearing	5173360001	5173360001	5173360001	5173360001
11	Hydraulic piston*	E7160306300	E7160306302	E7160306300	E7160306302
11.1	O-Ring	4081020110	4081020110	4081020110	4081020110
12	Double nipple	4220106500	4220106500	4220106500	4220106500
13	Hydraulic valve	4510010004-1M	4510010004-1M	4510010004-1M	4510010004-1M
14	Pressure gauge	CS11010019	CS11010019	CS11010019	CS11010019
15	Finger filter	4470010000	4470010000	4470010000	4470010000
16	Elbow	4640618082	4640618082	4640618082	4640618082
17	Tee connector	4640214082	4640214082	4640214082	4640214082
18	Controller 1-10DC + Solenoid	CSD1100112100	CSD1100112100	CSD1100112100	CSD1100112100
18	Controller 1-10 AC + solenoid	CSA1100114100	CSA1100114100	CSA1100114100	CSA1100114100
18.1	Solenoid DC	4430010902	4430010902	4430010902	4430010902
18.1	Solenoid AC	4430030901	4430030901	4430030901	4430030901
18.2	Controller 1-10 DC	4440211002	4440211002	4440211002	4440211002
18.2	Controller 1-10 AC	4440311002	4440311002	4440311002	4440311002
18.2.1	Expansion card 1-10 DC contr.	4450110200	4450110200	4450110200	4450110200
18.2.1	Expansion card 1-10 AC contr	4450110300	4450110300	4450110300	4450110300

* See detail pg. 107

AUTOMATIC HYDRAULIC FILTERS – Series AF200

Part Breakdown		Filter Model			
FILTER		AF204 (4")	AF204X (4")	AF206 (6")	AF208 (8")
1	Filter body	N/A	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100	5311400100
4	Stud	5292143001-043	5292143001-043	5292143001-043	5292143001-043
5	Washer	4121123001	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401	4112140401
7	Fine screen	E7005601001-01##	E7005602001-01##	E7005603000-01##	E7006603000-01##
7.1	O-Ring	4081202100-445	4081202100-445	4081202100-445	4081266100-450
7.2	Upper screen adaptor		E5005600900-01	E5005600900-01	E5006600900-01
7.2.1	Upper screen adaptor		5005600900	5005600900	5006600900
7.2.2	Screen wheel	5021640500	5021640500	5021640500	5021010600-P
7.2.3	Screen bearing f/dirt collec	5172391000	5172391000	5172391000	5172391000
7.3	Fine screen	W5005600401-01##	W5005600300-01##	W5005600300-01##	W5006600300-01##
7.4	Lower screen adaptor		E5005601001-02	E5005601001-02	E5006601000-02
7.4.1	Lower screen adaptor		E5005601001-01	E5005601001-01	E5006601000-01
8	Dirt collector	E7101610201-01	E7102610400-01	E7102610600-01	E7102610601-01
8.1	Suction nozzle	5121610101	5121610201	5121610201	5121610202
8.2	Dirt collector shaft	5131300901	5131300901	5131300901	5131300902
8.3	Dirt collector sleeve	5171303302	5171305000	5171305000	E5171305001
9	Flushing chamber	E5023010500-01	E5023010501-01	E5023010501-01	E5023010600-01

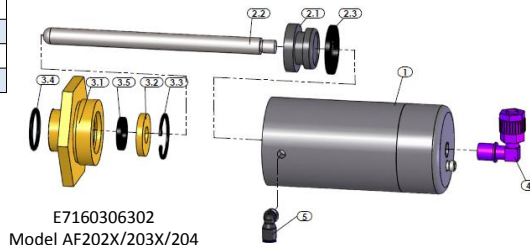
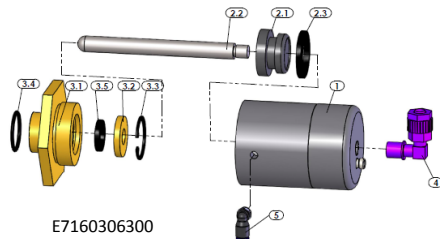
AUTOMATIC HYDRAULIC FILTERS – Series AF200

Part Breakdown		Filter Model			
FILTER		AF204 (4")	AF204X (4")	AF206 (6")	AF208 (8")
10	Hydraulic motor	E5141630200-01	E5142610202-01	E5142610203-01	E5142610203-01
10.1	Hydraulic motor bearing	5173360001	5173360001	5173360001	5173360001
11	Hydraulic piston*	E7160306302	E7160306303	E7160306303	E7160306307
11.1	O-Ring	4081020110	4081020110	4081020110	4081020110
12	Double nipple	4220106500	4220200300	4220200300	4220200300
13	Hydraulic valve	4510010004-1M	4510020003-06-1M	4510020003-06-1M	4510020003-06-1M
14	Pressure gauge	CS11010019	CS11010019	CS11010019	CS11010019
15	Finger filter	4470010000	4470010000	4470010000	4470010000
16	Elbow	4640618082	4640618082	4640618082	4640618082
17	Tee connector	4640214082	4640214082	4640214082	4640214082
18	Controller 1-10DC + Solenoid	CSD1100112100	CSD1100112100	CSD1100112100	CSD1100112100
18	Controller 1-10 AC + solenoid	CSA1100114100	CSA1100114100	CSA1100114100	CSA1100114100
18.1	Solenoid DC	4430010902	4430010902	4430010902	4430010902
18.1	Solenoid AC	4430030901	4430030901	4430030901	4430030901
18.2	Controller 1-10 DC	4440211002	4440211002	4440211002	4440211002
18.2	Controller 1-10 AC	4440311002	4440311002	4440311002	4440311002
18.2.1	Expansion card 1-10 DC contr.	4450110200	4450110200	4450110200	4450110200
18.2.1	Expansion card 1-10 AC contr	4450110300	4450110300	4450110300	4450110300

* See detail pg. 107-108

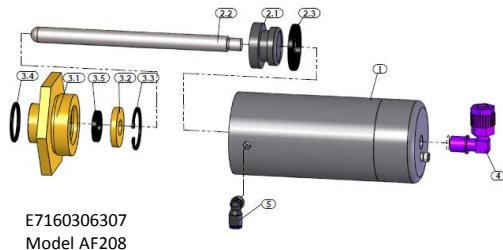
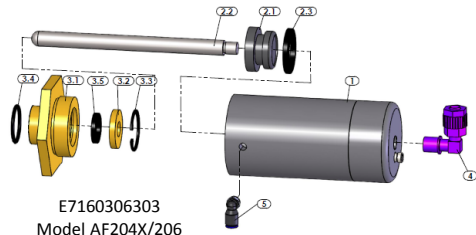
AUTOMATIC HYDRAULIC FILTERS – Series AF200

Filter Model		AF202/203	AF202X/203X /204
Hydraulic Piston		E7160306300	E7160306302
1	Piston 30 cylinder	E5161633001-01	E5161633002-01
2	Piston 30 head	E5163633001-01	E5163633001-02
2.1	Piston 30 head	5163633001	5163633001
2.2	Axis for piston	5132301001	5132301002
2.3	U-Ring	4082020101	4082020101
3	Piston 30 adaptor	E5164393001-01	E5164393001-01
3.1	Piston 30 adaptor metal	5164393001	5164393001
3.2	Piston 30 washer	6143901001	6143901001
3.3	Internal retaining ring	4133263200	4133263200
3.4	O-Ring	4081020110	4081020110
3.5	U-ring	4082010100	4082010100
4	Male elbow plastic	4640618082	4640618082
5	Elbow steel	4650605001	4650605001



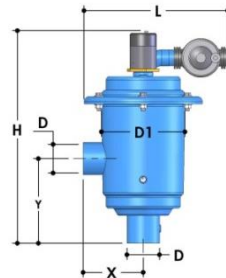
AUTOMATIC HYDRAULIC FILTERS – Piston AF200

Filter Model	AF204X/206	AF208
Hydraulic Piston	E7160306303	E7160306307
1 Piston 30 cylinder	E5161633002-02	E5161633003-01
2 Piston 30 head	E5163633001-03	E5163633001-03
2.1 Piston 30 head	5163633001	5163633001
2.2 Axis for piston	5132301003	5132301003
2.3 U-Ring	4082020101	4082020101
3 Piston 30 adaptor	E5164393001-01	E5164393001-01
3.1 Piston 30 adaptor metal	5164393001	5164393001
3.2 Piston 30 washer	6143901001	6143901001
3.3 Internal retaining ring	4133263200	4133263200
3.4 O-Ring	4081020110	4081020110
3.5 U-ring	4082010100	4082010100
4 Male elbow plastic	4640618082	4640618082
5 Elbow steel	4650605001	4650605001



AUTOMATIC HYDRAULIC FILTERS – Series AF100

Model	In/Out ØD (mm) (in)		ØD1 (in)	X (mm) (in)		Y (mm) (in)		H (mm) (in)		L (mm) (in)		Packaging Weight (kg) (lb)		Packaging Volume (m) (ft)	
AF102	50	2	6	123	4.9	174	6.9	431	17.0	287	11.3	18	40	0.60x0.32x0.43	1.9x1.05x1.4
AF103	80	3	6	123	4.9	174	6.9	470	18.5	295	11.6	18	40	0.60x0.32x0.43	1.9x1.05x1.4

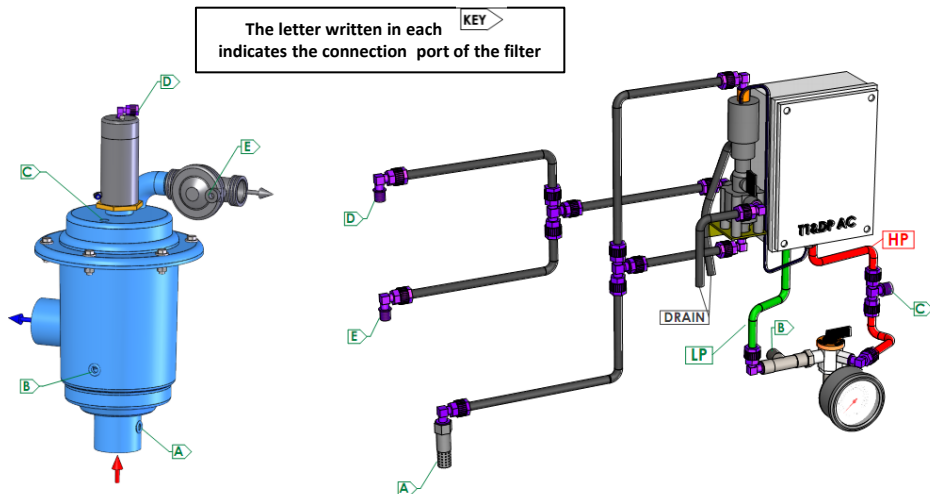


Automáticos Hidráulicos



AUTOMATIC HYDRAULIC FILTERS – Series AF100

AF100-AC Control System

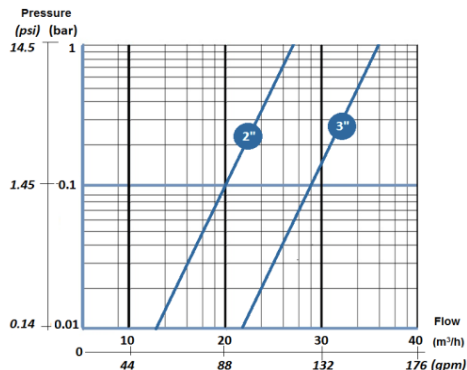


AUTOMATIC HYDRAULIC FILTERS – Series AF100

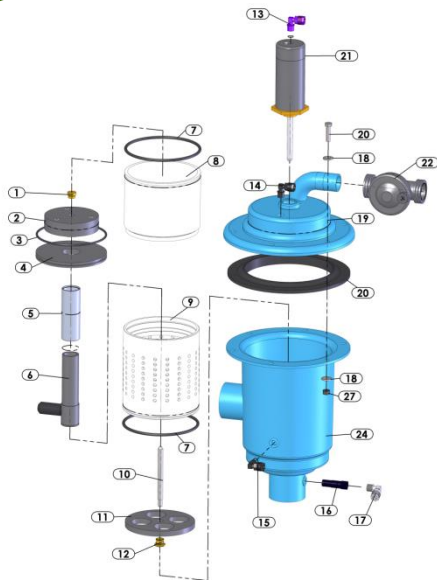
Model	In/Out ØD (mm) (in)		Max. Flow Rate* (m ³ /h) (GPM)		Screen dimension (cm ²) (in ²)		Flushing Flow rate (m ³ /h) (GPM)	
AF102	50	2	20	88	400	62	3.5	15.4
AF103	80	3	28	123	400	62	5.9	26.0

* Maximum recommended Flow Rate - 120 micron in good quality water

Pressure loss at 120 micron



AUTOMATIC HYDRAULIC FILTERS – Series AF100



IPB	Part Breakdown
1	BEARING BRONZE HEAD HYDRAULIC MOTOR 1/2"NF
2	HYDRAULIC MOTOR PVC AF100 W/O BEARING
3	O-RING 157 NBR
4	FLUSHING CHAMBER PLATE PVC AF102
5	BEARING DIRT COLLECTOR SLEEVE 1" AF100
6	COMP DIRT COLLECTOR PVC 33/ 1 NOZZLE AF102
7	O-RING 250 NBR
8	BODY FLUSHING CHAMBER PVC140*113 AF102
9 + 11	COMP FINE SCREEN PVC140 AF102 120mic
10	DIRT COLLECTOR AXIS SS304 10mm AF102
12	BEARING SCREEN BRASS F/AXIS DIRT COLLECTOR 8mm
13/14/15	MALE ELBOW 1/8"*8 PLASTIC
16	FINGER FILTER 1/4"*1/8" PLASTIC 100mic
17	MALE BRANCH T 8*1/8*8 PLASTIC
18	WASHER M8 SS304
19	Filter cover
20	GASKET FOR BODY 6" SA500C
21	PISTON 30 CYLINDER ASSM AF208
22	HYDRAULIC VALVE BERMAD 205 1"SOC
24	Filter body
27	NUT 5/16"NC HOT GALVANIZED

AUTOMATIC HYDRAULIC FILTERS – Series AF800

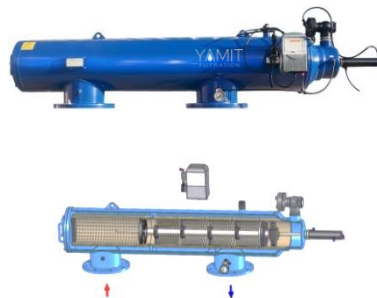
Applications: screen filter with automatic hydraulic back flushing

Standard Characteristics:

- **Filter element:** - ST.ST. screen AISI 316, supported by a PVC cylinder.
- **Available filtration grades:** 80-3000 micron
- **Filter housing material of construction:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder
Coating with a thickness of 150-200 micron
- **Connections:** Victaulic and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).
- **Minimum operating working pressure during flushing:** 2 bar (29 psi)
- Equipped with an electronic control system (6V DC, 12 V DC, 24V AC)

Operation:

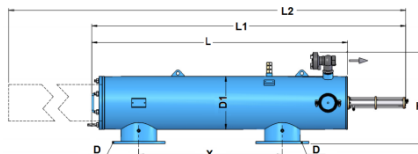
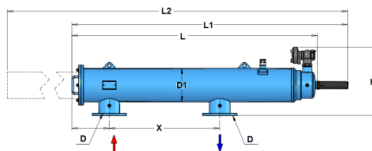
The filter is equipped with a coarse screen that protects the finer screen from stones and larger particles. The coarse screen can be periodically cleaned manually. Automatic flushing of the fine screen is activated once the pressure differential (ΔP) in the filter reaches pre-determined value (up to 0.5 bar). During the flushing cycle, the flushing valve opens, pressure is released from the hydraulic piston and debris laden water is discharged through the flushing valve. Pressure in the hydraulic motor chamber and the dirt collector is significantly lowered causing the dirt collector nozzles move along and rotate cleaning the whole internal screen surface. The flushing cycle takes 5 seconds. The flushing valve closes at the end of the cycle, pressure reapplied to the piston, moving the nozzles back to their rest position, and the filter is cleaned. During the whole process water supply is uninterrupted.



AUTOMATIC HYDRAULIC FILTERS – Series AF800

Model	In/Out ØD		ØD1 (in)	H (mm)(in)		X (mm) (in)		L (mm) (in)		L1 (mm) (in)		L2 (mm) (in)		Shipping weight (kg) (lb)		Packaging volume LxAxH (m) (ft)	
	(mm)	(in)		(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(kg)	(lb)	(m)	(ft)
AF803NL	75	3	10	545	21.4	450	17.7	1139	44.8	1386	54.6	2040	80.3	110	243	1.6x0.6x0.8	5.3x2.0x2.6
AF804NL	100	4	10	545	21.4	900	35.4	1535	60.4	1782	70.1	2820	111.0	135	298	2.0x0.6x0.8	6.6x2.0x2.6
AF804NX	100	4	10	545	21.4	900	35.4	1931	76.0	2178	85.7	3620	142.5	154	340	2.4x0.6x0.8	7.9x2.0x2.6
AF806NL	150	6	12	580	22.8	900	35.4	1605	63.2	1851	72.9	2890	113.8	147	324	2.0x0.6x0.8	6.6x2.0x2.6
AF806NX	150	6	10	555	21.8	900	35.4	2001	78.8	2247	88.5	3680	144.9	157	346	2.4x0.6x0.8	7.9x2.0x2.6
AF808NL	200	8	12	579	22.8	900	35.4	2190	86.2	2437	95.9	3870	152.4	187	412	2.6x0.6x0.8	8.5x2.0x2.6
AF810NL	250	10	14	595	23.4	900	35.4	2194	86.4	2437	96.1	3870	152.4	212	467	2.6x0.6x0.8	8.5x2.0x2.6
AF810X	250	10	16	720	28.4	1100	43.3	2700	106.3	3145	123.8	5420	213.4	405	893	3.4x0.8x1.0	11.2x2.6x3.2
AF812R	300	12	16	720	28.4	1100	43.3	2700	106.3	3145	123.8	5420	213.4	410	904	3.4x0.8x1.0	11.2x2.6x3.2
AF814R	350	14	18	770	30.3	1270	50.0	2700	106.3	3145	123.8	5420	213.4	482	1063	3.4x0.8x1.0	11.2x2.6x3.2
AF816R	400	16	18	770	30.3	1270	50.0	2700	106.3	3145	123.8	5420	213.4	500	1102	3.4x0.8x1.0	11.2x2.6x3.2
AF816X	400	16	24	925	36.4	1270	50.0	2705	106.5	3150	124.0	5420	213.4	695	1532	3.4x1.0x1.2	11.2x3.2x3.9

Flushing flow rate data is for minimum operational pressure (2 bar).



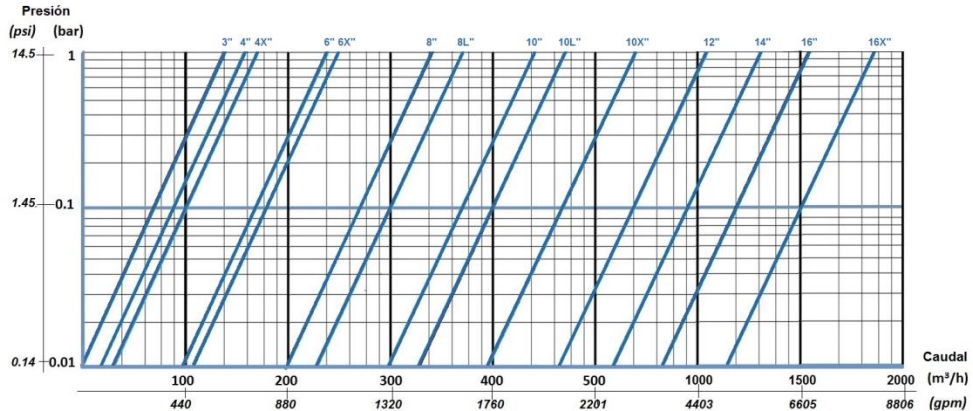
AUTOMATIC HYDRAULIC FILTERS – Series AF800

Model	In/Out ØD (mm) (in)		Maximum Flow Rate (m3/h) (gpm)		Screen area (cm ²) (in ²)		Flushing Flow rate (m3/h) (gpm)		Flushing volume (10 sec) (m ³) (gallon)	
AF803N	75	3	50	220	3220	500	30	132	0.083	22.01
AF804NL	100	4	80	350	5780	896	30	132	0.083	22.01
AF804NX	100	4	100	440	8410	1300	30	132	0.083	22.01
AF806NL	150	6	150	660	5780	896	30	132	0.083	22.01
AF806NX	150	6	160	700	8410	1300	30	132	0.083	22.01
AF808NL	200	8	300	1320	8410	1300	30	132	0.083	22.01
AF810NL	250	10	400	1760	8410	1300	30	132	0.083	22.01
AF810X	250	10	450	2000	11710	1815	90	396	0.250	66.04
AF812R	300	12	600	2640	11710	1815	90	396	0.250	66.04
AF814R	350	14	900	4000	12990	2015	90	396	0.250	66.04
AF816R	400	16	1100	4850	12990	2015	90	396	0.250	66.04
AF816X	400	16	1500	6600	17020	2640	90	396	0.250	66.04

* Maximum recommended Flow Rate - 120 micron in good quality water

AUTOMATIC HYDRAULIC FILTERS – Series AF800

Pressure loss at 120 micron



Maximum Flow Rate (m³/h)

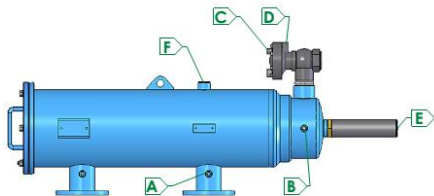
	Water quality	AF-803L 3"	AF-804L 4"	AF-804X 4"	AF-806L 6"	AF-806X 6"	AF-808L 8"	AF-810L 10"
200μ	Good	50	80	100	150	160	300	400
	Regular	30		60	90	100	180	240
	Bad	28		55	55	95	150	225
100-150μ	Good	50	80	100	150	160	300	400
	Regular	25		45	68	78	145	180
	Bad	22		42	54	74	130	170

Water quality	ppm = mg/l
Good	< 15
Regular	15 – 50
Bad	50 – 100

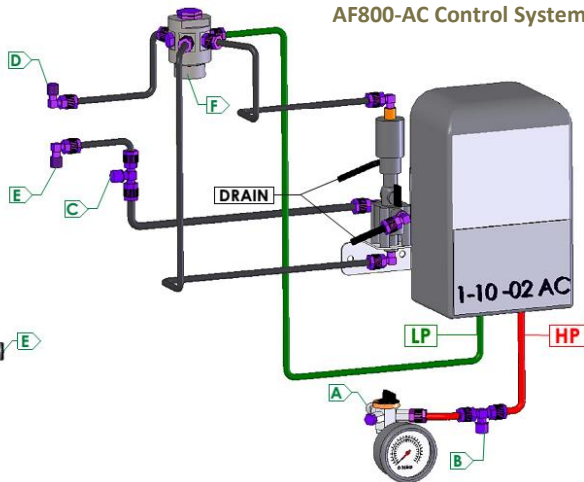
AUTOMATIC HYDRAULIC FILTERS – Series AF800

The letter written in each
indicates the connection port of the filter

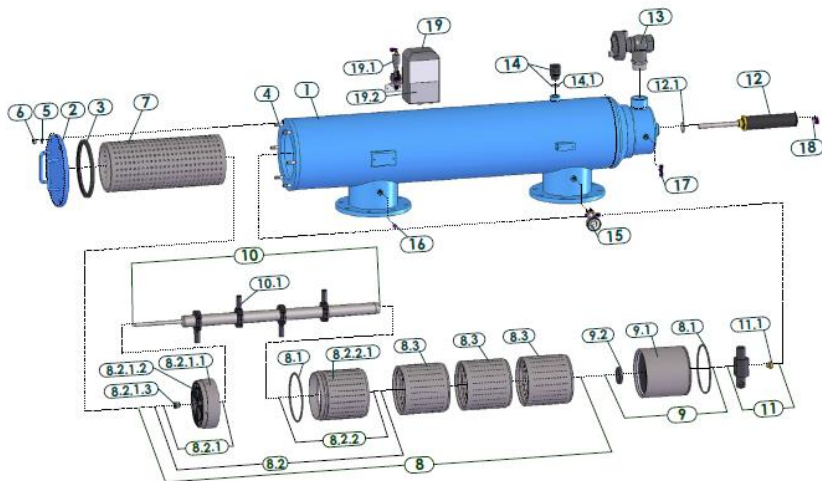
KEY



AF800-AC Control System Setup



AUTOMATIC HYDRAULIC FILTERS – Series AF800N (3"-10")



AUTOMATIC HYDRAULIC FILTERS – Series AF800N (3"-10")

Part Breakdown		Filter Model			
FILTER		AF803NL	AF804NL	AF804NX	AF806NL
1	Filter body	N/A	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-048	5292143001-048
5	Washer	4121123001	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401	4112140401
7	Coarse screen	E7005600100-01	E7005600100-01	E7005600100-01	E7005600102-01
8	Fine screen	E7005602005-01##	E7005604003-01##	E7005606000-01##	E7005604003-01##
8.1	O-Ring	4081202100-445	4081202100-445	4081202100-445	4081202100-445
8.2	Fine screen upper section	E5005600102-01##-02	E5005600102-01##-02	E5005600102-01##-02	E5005600102-01##-02
8.2.1	Upper screen adaptor	E5005600902-02	E5005600902-02	E5005600902-02	E5005600902-02
8.2.1.1	Fine screen upper section	W5005600102-01##	W5005600102-01##	W5005600102-01##	W5005600102-01##
8.2.1.2	Screen wheel	5021640500	5021640500	5021640500	5021640500
8.2.1.3	Screen bearing f/dirt collector	5172391500	5172391500	5172391500	5172391500
8.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##	W5005600300-01##
9	Flushing chamber	E5005601101-01	E5005601101-01	E5005601101-01	E5005601101-01
9.1	Flushing chamber	W5005601101-01	W5005601101-01	W5005601101-01	W5005601101-01
9.2	Bearing for dirt collector	5172635000	5172635000	5172635000	5172635000
10	Dirt collector	E7102300201-01	E7102300401-01	E7102300601-01	E7102300401-01
10.1	Suction nozzle	E5122670302	E5122670302	E5122670302	E5122670302

AUTOMATIC HYDRAULIC FILTERS – Series AF800N (3"-10")

Part Breakdown		Filter Model			
FILTER		AF803NL	AF804NL	AF804NX	AF806NL
11	Hydraulic motor	E5142610200-01	E5142610200-02	E5142610200-03	E5142610200-02
11.1	Head collector bearing	W5173390002-01	W5173390002-01	W5173390002-01	W5173390002-01
12	Hydraulic piston*	E7160406300	E7160406300	E7160406300	E7160406300
12.1	O-Ring	4081040100-223	4081040100-223	4081040100-223	4081040100-223
13	Hydraulic valve	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M
14	Short distributor	E5412036301-01	E5412036301-01	E5412036301-01	E5412036301-01
14.1	O-Ring	4081034100-126	4081034100-126	4081034100-126	4081034100-126
15	Pressure gauge	CS11010015	CS11010015	CS11010015	CS11010015
16	Plug	4640314002	4640314002	4640314002	4640314002
17	Male branch T	4640214082	4640214082	4640214082	4640214082
18	Male elbow	4640618082	4640618082	4640618082	4640618082
19	Controller 1-10 DC + solenoid	CSD1100112100	CSD1100112100	CSD1100112100	CSD1100112100
19	Controller 1-10 AC + solenoid	CSA1100114100	CSA1100114100	CSA1100114100	CSA1100114100
19.1	Solenoid DC	4430010902	4430010902	4430010902	4430010902
19.1	Solenoid AC	4430030901	4430030901	4430030901	4430030901
19.2	Controller 1-10 DC 2 ports	4440211002	4440211002	4440211002	4440211002
19.2	Controller 1-10 AC 2 ports	4440311002	4440311002	4440311002	4440311002
19.2.1	Expansion card controller 1-10 DC	4450110200	4450110200	4450110200	4450110200
19.2.1	Expansion card controller 1-10 AC	4450110300	4450110300	4450110300	4450110300

* See detail pg. 126

AUTOMATIC HYDRAULIC FILTERS – Series AF800N (3"-10")

Part Breakdown		Filter Model		
FILTER		AF806NX	AF808NL	AF810NL
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-055
5	Washer	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401
7	Coarse screen	E7005600102-01	E7005600104-01	E7005600104-01
8	Fine screen	E7005606000-01##	E7005606000-01##	E7005606000-01##
8.1	O-Ring	4081202100-445	4081202100-445	4081202100-445
8.2	Fine screen upper section	E5005600102-01##-02	E5005600102-01##-02	E5005600102-01##-02
8.2.1	Upper screen adaptor	E5005600902-02	E5005600902-02	E5005600902-02
8.2.1.1	Fine screen upper section	W5005600102-01##	W5005600102-01##	W5005600102-01##
8.2.1.2	Screen wheel	5021640500	5021640500	5021640500
8.2.1.3	Screen bearing f/dirt collector	5172391500	5172391500	5172391500
8.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##
9	Flushing chamber	E5005601101-01	E5005601101-01	E5005601101-01
9.1	Flushing chamber	W5005601101-01	W5005601101-01	W5005601101-01
9.2	Bearing for dirt collector	5172635000	5172635000	5172635000
10	Dirt collector	E7102300601-01	E7102300601-01	E7102300601-01
10.1	Suction nozzle	E5122670302	E5122670302	E5122670302

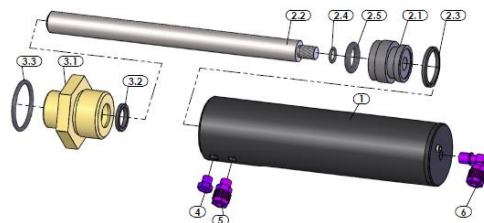
AUTOMATIC HYDRAULIC FILTERS – Series AF800N (3"-10")

Part Breakdown		Filter Model		
FILTER		AF806NX	AF808NL	AF810NL
11	Hydraulic motor	E5142610200-03	E5142610200-03	E5142610200-03
11.1	Head collector bearing	W5173390002-01	W5173390002-01	W5173390002-01
12	Hydraulic piston*	E7160406300	E7160406300	E7160406300
12.1	O-Ring	4081040100-223	4081040100-223	4081040100-223
13	Hydraulic valve	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M
14	Short distributor	E5412036301-01	E5412036301-01	E5412036301-01
14.1	O-Ring	4081034100-126	4081034100-126	4081034100-126
15	Pressure gauge	CS11010015	CS11010015	CS11010015
16	Plug	4640314002	4640314002	4640314002
17	Male branch T	4640214082	4640214082	4640214082
18	Male elbow	4640618082	4640618082	4640618082
19	Controller 1-10 DC + solenoid	CSD1100112100	CSD1100112100	CSD1100112100
19	Controller 1-10 AC + solenoid	CSA1100114100	CSA1100114100	CSA1100114100
19.1	Solenoid DC	4430010902	4430010902	4430010902
19.1	Solenoid AC	4430030901	4430030901	4430030901
19.2	Controller 1-10 DC 2 ports	4440211002	4440211002	4440211002
19.2	Controller 1-10 AC 2 ports	4440311002	4440311002	4440311002
19.2.1	Expansion card controller 1-10 DC	4450110200	4450110200	4450110200
19.2.1	Expansion card controller 1-10 AC	4450110300	4450110300	4450110300

* See detail pg. 126

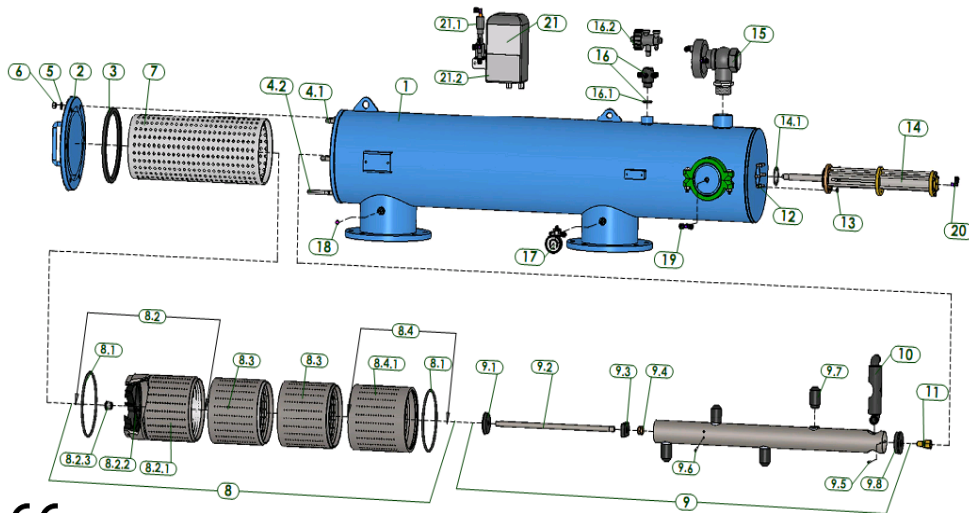
Piston for model for AF800N

Filter Model		AF800N
Hydraulic Piston		E7160406300
1	Piston 40 cylinder	E5161634001-01
2	Piston 40 head	E5163634001-01
2.1	Piston 40 head	5163634001
2.2	Axis for piston	5132302002
2.3	U-ring	4082030100
2.4	O-Ring	4081010100-013
2.5	O-Ring	4081018100-314
3	Piston 40 adaptor	E5164394001-01
3.1	Piston 40 adaptor metal	5164394001
3.2	U-Ring	4082020100
3.3	O-Ring	4081040100-223
4	Connector	4640318002
5	Male connector plastic	4640718085
6	Male elbow plastic	4640618082



E7160406300
Model AF800N

AUTOMATIC HYDRAULIC FILTERS – Series AF800 (10"-18")



AUTOMATIC HYDRAULIC FILTERS – Series AF800 (10"-18")

Part Breakdown		Filter Model		
FILTER		AF810X/812R	AF814R/816R	AF816X/818X
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311400100	5311450100	5311600100
4.1	Stud	5292183001-073	5292183001-073	5292183001-080
4.2	Stud	5292183001-130	5292183001-130	5292183001-130
5	Washer	4121203001	4121203001	4121203001
6	Nut	4112180401	4112180401	4112180401
7	Coarse screen	E7006600300-01	E7007600300-01	E7008600300-01
8	Fine screen	E7006606000-01##	E7007606000-01##	E7008606001-01##
8.1	O-Ring	4081266100-450	4081291100-452	4081380100-459
8.2	Fine screen upper section	E5006600100-01##-01	E5007600100-01##-01	E5008600100-01##-01
8.2.1	Fine screen upper section	W5006600100-01##	W5007600100-01##	W5008600100-01##
8.2.2	Screen wheel	5021010600-P	5021010700-P	5021010800-P
8.2.3	Screen bearing for shaft	5172301700	5172301700	5172301700
8.3	Fine screen middle section	W5006600300-01##	W5007600300-01##	W5008600300-01##
8.4	Fine screen lower section	E5005600201-01##-01	E5007600200-01##-01	E5008600200-01##-01
8.4.1	Fine screen lower section	W5006600200-01##	W5007600200-01##	W5008600200-01##

AUTOMATIC HYDRAULIC FILTERS – Series AF800 (10"-18")

Part Breakdown		Filter Model		
FILTER		AF810X/812R	AF814R/816R	AF816X/818X
9	Dirt collector	E7105300600-01	E7105300601-01	E7105300602-01
9.1	Dirt collector upper plug	5115610100	5115610100	5115610100
9.2	Dirt collector shaft	5131391702	5131391702	5131391702
9.3	Dirt collector middle plug	5115610300	5115610300	5115610300
9.4	Dirt collector shaft tightening nut	5110390400	5110390400	5110390400
9.5	Attachment screw	4102043003-019	4102043003-019	4102043003-019
9.6	Attachment screw	4102043002-019	4102043002-019	4102043002-019
9.7	Suction nozzle	5121610403	5121610404	5121610405
9.8	Dirt collector lower plug	5115610200	5115610200	5115610200
10	Hydraulic motor	W5145320201-01	W5145320201-01	W5145320201-01
11	Dirt collector head bearing	W5173390001-01	W5173390001-01	W5173390001-01
12	Stud	5293113007-029	5293113007-029	5293113007-029
13	Nut	4112113901	4112113901	4112113901
14	Hydraulic piston*	E7160503000	E7160503000	E7160503000
14.1	O-Ring	4081056100-331	4081056100-331	4081056100-331
15	Hydraulic valve	E4510020003-07	E4510020003-07	E4510020003-07
16	Distribuidor	E5412036302-01	E5412036302-01	E5412036302-01
16.1	O-ring	4081034100-126	4081034100-126	4081034100-126
16.2	Valve	4470030300	4470030300	4470030300

* See detail pg. 131

AUTOMATIC HYDRAULIC FILTERS – Series AF800 (10"-18")

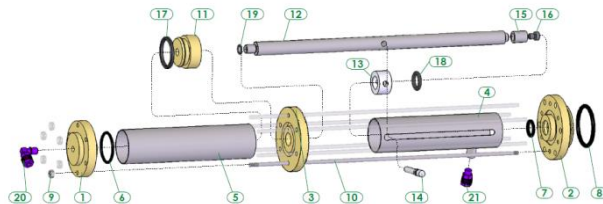
Part Breakdown		Filter Model		
FILTER		AF810X/812R	AF814R/816R	AF816X/818X
17	Pressure gauge	CS11010015	CS11010015	CS11010015
18	Plug	4640314002	4640314002	4640314002
19	Male branch T	4640214082	4640214082	4640214082
20	Male elbow	4640618082	4640618082	4640618082
21	Controller 1-10 DC + solenoid	CSD1100112100	CSD1100112100	CSD1100112100
21	Controller 1-10 AC + solenoid	CSA1100114100	CSA1100114100	CSA1100114100
21.1	Solenoid DC	4430010902	4430010902	4430010902
21.1	Solenoid AC	4430030901	4430030901	4430030901
21.2	Controller 1-10 DC 2 ports	4440211002	4440211002	4440211002
21.2	Controller 1-10 AC 2 ports	4440311002	4440311002	4440311002
21.2.1	Expansion card controller 1-10 DC	4450110200	4450110200	4450110200
21.2.1	Expansion card controller 1-10 AC	4450110300	4450110300	4450110300
22	Adapter Delrin 2" Nipple/Socket	6136302004	6136302004	6136302004
23	O-Ring 226	4081050100-226	4081050100-226	4081050100-226

AUTOMATIC HYDRAULIC FILTERS – Series AF800 (10"-18")

Filter Model		AF804-818
Hydraulic Piston		E7160503000
1	Piston 50 cylinder plug	5162395001
2	Piston 40/50 adaptor	5164395002
3	Piston 40/50 middle plug	5162395003
4	Piston 40/50 anti rotation pin housing	W5161305001-01
5	Piston 50 cylinder	5161305002
6	O-Ring 223	4081040100-223
7	U-ring 20*28*5	4082020100
8	O-Ring 331	4081056100-331
9	Nut ¼"	4112103001
10	Stud ¼"	5292103001-441
11	Piston 50 head	5163395001

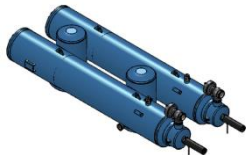
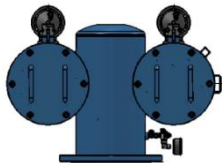
Filter Model		AF804-818
Hydraulic Piston		E7160503000
12	Axis 20mm for piston 40/50	5132305001
13	Piston 40/50 anti rotation pin bushing	5160315002
14	Piston 40/50 anti rotation pin	5160315001
15	Piston 40/50 axis piston bearing adaptor	5173300001
16	Piston 40/50 axis piston bearing	5173090002
17	U-Ring 40*50*7	4082040100
18	O-Ring 314	4081018100-314
19	O-Ring 11*2	4081010100-013
20	Male elbow 1/8*8	4640618082
21	Male connector 1/8*8	4640718085

E7160503000
Model AF804 / AF818

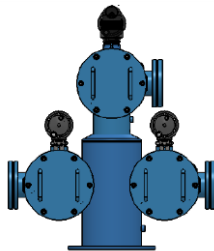


AUTOMATIC HYDRAULIC FILTERS – Special Configurations

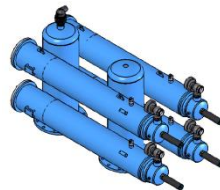
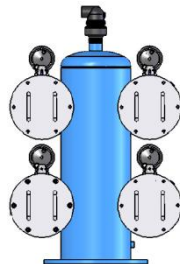
DOUBLE



TRIPLE



QUADRUPLE



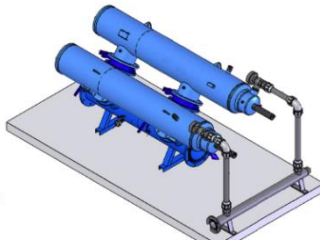
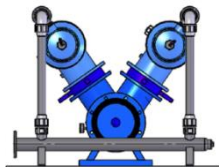
AUTOMATIC HYDRAULIC FILTERS – Special Configurations



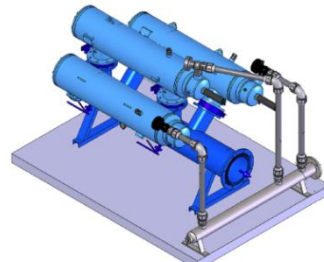
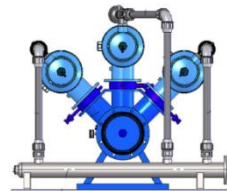
AUTOMATIC HYDRAULIC FILTERS – Special Configurations

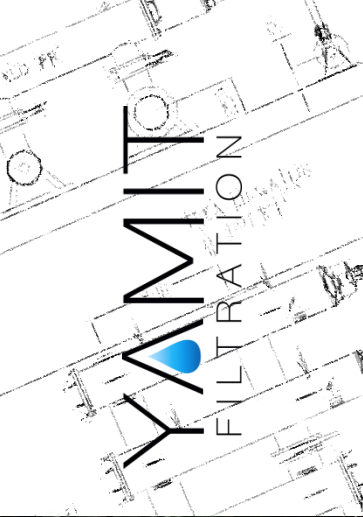


DOUBLE



TRIPLE





Automatic Electric Filters

AUTOMATIC ELECTRIC FILTERS – Series AF9800

Applications: screen filter with automatic electric flushing

Standard Characteristics:

- **Filter element:** - Stainless Steel screen AISI 316, supported by a PVC cylinder.
- **Available filtration grades :** 50-3000 micron
- **Filter housing and connections:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Victaulic and Flange
- **Maximum recommended working pressure:** up to 10 bar (145 psi).
- **Minimum operating working pressure during flushing:** 1.5 bar (21.8 psi)
- Equipped with an electronic control system 110V, 220V or 380-440V 3-phase, 0,25 HP

Operation:

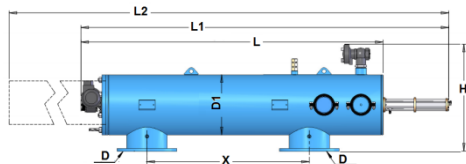
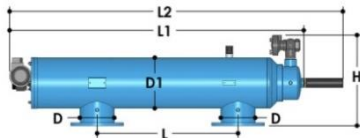
The flushing valve opens and pressure in the flushing chamber and the dirt collector is significantly lowered resulting in a suction process via the suction nozzles to the dirt collector and from there through the flushing valve discharge. The electric motor simultaneously rotates the dirt collector and moves it along its axis. The combination of the vertical movement and rotation guarantees that the suction nozzles will cover the entire internal screen surface, efficiently cleaning the screen. The whole process takes 10 seconds. During the whole process water supply is uninterrupted.



AUTOMATIC ELECTRIC FILTERS – Series AF9800

Model	In/Out ØD (mm) (in)		ØD1 (in)	H (mm) (in)		X (mm) (in)		L (mm) (in)		L1 (mm) (in)		L2 (mm) (in)		Packing Weight (kg) (lb)		Packing Volume L*W*H (m) (ft)	
AF9803NL	75	3	10	545	21.4	450	17.7	1227	48.3	1473	58.0	2040	80.3	128	282	1.6x0.6x0.8	5.3x2.0x2.6
AF9804NL	100	4	10	545	21.4	900	35.4	1623	63.9	1873	73.7	2820	111.0	153	337	2.0x0.6x0.8	6.6x2.0x2.6
AF9804NX	100	4	10	545	21.4	900	35.4	2019	79.5	2265	89.2	3620	142.6	172	379	2.4x0.6x0.8	7.9x2.0x2.6
AF9806NL	150	6	12	580	22.8	900	35.4	1692	66.6	1938	76.3	2890	113.8	165	364	2.0x0.6x0.8	6.6x2.0x2.6
AF9806NX	150	6	10	555	21.8	900	35.4	2089	82.2	2335	91.9	3680	144.9	175	386	2.4x0.6x0.8	7.9x2.0x2.6
AF9808NL	200	8	12	580	22.8	900	35.4	1740	68.5	2000	78.7	2900	114.3	205	452	2.6x0.6x0.8	8.5x2.0x2.6
AF9810NL	250	10	14	595	23.4	900	35.4	2282	89.8	2528	99.5	3870	152.4	230	507	2.8x0.6x1.0	8.5x2.0x2.6
AF9810X	250	10	16	720	28.4	1100	43.3	2787	109.7	3233	127.3	5420	213.4	423	932	2.6x0.6x0.8	11.2x2.6x3.2
AF9812R	300	12	16	655	25.8	1100	43.3	2787	109.7	3233	127.3	5420	213.4	428	944	3.4x0.8x1.0	11.2x2.6x3.2
AF9814R	350	14	18	770	30.3	1270	50.0	2787	109.7	3233	127.3	5420	213.4	500	1102	3.4x0.8x1.0	11.2x2.6x3.2
AF9816R	400	16	18	770	30.3	1270	50.0	2787	109.7	3233	127.3	5420	213.4	518	1142	3.4x0.8x1.0	11.2x2.6x3.2
AF9816X	400	16	24	925	36.4	1270	50.0	2787	109.7	3233	127.3	5420	213.4	713	1572	3.4x0.8x1.0	11.2x2.6x3.2

**flushing flow rate data is for minimum operational pressure 1.5 bares (21.8 psi).

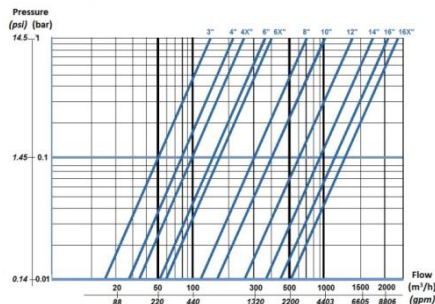


AUTOMATIC ELECTRIC FILTERS – Series AF9800

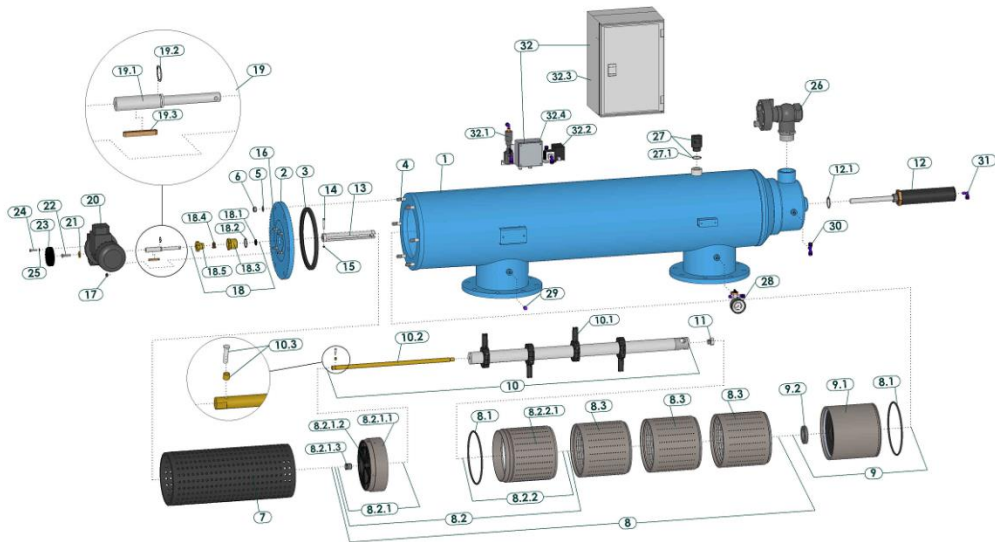
Model	Int/Outlet ØD (in)		Max. Flow Rate (m ³ /h) (gpm)		Screen area (cm ²) (in ²)		Flushing Flow rate (m ³ /h) (gpm)		Flushing Vol. (10 sec) (m ³) (gal)	
AF9803NL	80	3	50	220	3220	499	30	130	0.083	22.0
AF9804NL	100	4	80	440	5780	896	30	130	0.083	22.0
AF9804NX	100	4	100	440	8410	1304	30	130	0.083	22.0
AF9806NL	150	6	150	660	5780	896	30	130	0.083	22.0
AF9806NX	150	6	160	700	8410	1304	30	130	0.083	22.0
AF9808NL	200	8	300	1320	8410	1304	30	130	0.083	22.0
AF9810NL	250	10	400	1760	8410	1304	30	130	0.083	22.0
AF9810X	250	10	400	1760	8410	1304	30	130	0.083	22.0
AF9812R	300	12	600	2640	11710	1815	30	130	0.083	22.0
AF9814R	350	14	900	3960	12990	2013	30	130	0.083	22.0
AF9816R	400	16	1100	4850	12990	2013	30	130	0.083	22.0
AF9816X	400	16	1500	6600	17020	2638	30	130	0.083	22.0

* Maximum recommended Flow Rate - 120 micron in good quality water

Pressure loss at 120 micron



AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")



AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")

Part Breakdown		Filter Model			
FILTER		AF9803NL	AF9804NL	AF9804NX	AF9806NL
1	Filter body	N/A	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-048	5292143001-048
5	Washer	4121123001	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401	4112140401
7	Coarse screen	E7005600101-01	E7005600101-01	E7005600101-01	E7005600103-01
8	Fine screen	E7005602005-02##	E7005604003-02##	E7005604003-02##	E7005604003-02##
8.1	O-Ring	4081202100-445	4081202100-445	4081202100-445	4081202100-445
8.2	Fine screen upper section	E5005600102-01##-03	E5005600102-01##-03	E5005600102-01##-03	E5005600102-01##-03
8.2.1	Upper screen adaptor	E5005600902-03	E5005600902-03	E5005600902-03	E5005600902-03
8.2.1.1	Upper screen adaptor	5005600902	5005600902	5005600902	5005600902
8.2.1.2	Screen wheel	5021640500	5021640500	5021640500	5021640500
8.2.1.3	Screen bearing for shaft	5172301700	5172301700	5172301700	5172301700
8.2.2	Fine screen upper section	E5005600102-01##-01	E5005600102-01##-01	E5005600102-01##-01	E5005600102-01##-01
8.2.2.1	Fine screen upper section	W5005600102-01##	W5005600102-01##	W5005600102-01##	W5005600102-01##
8.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##	W5005600300-01##
9	Flushing chamber	E5005601101-01	E5005601101-01	E5005601101-01	E5005601101-01
9.1	Flushing chamber	W5005601101-01	W5005601101-01	W5005601101-01	W5005601101-01
9.2	Bearing for dirt collector	5172635000	5172635000	5172635000	5172635000

AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")

Part Breakdown		Filter Model			
FILTER		AF9803NL	AF9804NL	AF9804NX	AF9806NL
10	Dirt collector	E7102300200-01	E7102300400-01	E7102300600-01	E7102300400-01
10.1	Suction nozzle	E5122670302	E5122670302	E5122670302	E5122670302
10.2	Dirt collector shaft	5131391709	5131391709	5131391709	5131391710
10.3	Drive bolt	E6163101001-01	E6163101001-01	E6163101001-01	E6163101001-01
11	Head collector bearing	W5173390002-01	W5173390002-01	W5173390002-01	W5173390002-01
12	Hydraulic piston*	E7160406300	E7160406300	E7160406300	E7160406300
12.1	O-Ring	4081040100-223	4081040100-223	4081040100-223	4081040100-223
13	Drive tube	W6073001001-01	W6073001001-01	W6073001001-01	W6073001001-01
14	Bolt	6163100503	6163100503	6163100503	6163100503
15	Nut	4111053002	4111053002	4111053002	4111053002
16	Stud	5292113001-029	5292113001-029	5292113001-029	5292113001-029
17	Nut	4112113901	4112113901	4112113901	4112113901
18	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01	E5182391300-01
18.1	U-Ring	4082013100	4082013100	4082013100	4082013100
18.2	O-Ring	4081030100	4081030100	4081030100	4081030100
18.3	Sealing rope housing	5182391300	5182391300	5182391300	5182391300
18.4	Sealing rope	5319000900	5319000900	5319000900	5319000900
18.5	Tightening nut sealing rope	5181391300	5181391300	5181391300	5181391300
19	Gear drive shaft	E5133301901-01	E5133301901-01	E5133301901-01	E5133301901-01
19.1	Gear drive shaft	5133301901	5133301901	5133301901	5133301901

* See detail pg. 146

AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")

Part Breakdown		Filter Model			
FILTER		AF9803NL	AF9804NL	AF9804NX	AF9806NL
19.2	External retaining ring	4133205001	4133205001	4133205001	4133205001
19.3	Gear key	5203390602	5203390602	5203390602	5203390602
20	Motor 3 phase	E4060251000	E4060251000	E4060251000	E4060251000
21	Washer	6143902301	6143902301	6143902301	6143902301
22	Bolt	4102113001-020	4102113001-020	4102113001-020	4102113001-020
23	Motor cover	5331630001	5331630001	5331630001	5331630001
24	Bolt	4101063001-025	4101063001-025	4101063001-025	4101063001-025
25	Washer	4121063001	4121063001	4121063001	4121063001
26	Hydraulic valve	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M
27	Short distributor	E5412036301-01	E5412036301-01	E5412036301-01	E5412036301-01
27.1	O-Ring	4081034100-126	4081034100-126	4081034100-126	4081034100-126
28	Pressure gauge	CS11010015	CS11010015	CS11010015	CS11010015
29	Plug	4640314002	4640314002	4640314002	4640314002
30	Male branch T	4640214082	4640214082	4640214082	4640214082
31	Male elbow	4640618082	4640618082	4640618082	4640618082
32	Controller ELI-02	CSE0200114403	CSE0200114403	CSE0200114403	CSE0200114403
32.1	Solenoid AC	4430030901	4430030901	4430030901	4430030901
32.2	DP pressure switch unit	4410000004	4410000004	4410000004	4410000004
32.3	Control board ELI-02	8500010100-03	8500010100-03	8500010100-03	8500010100-03
32.4	Junction box for ELI-02	8500010801	8500010801	8500010801	8500010801

AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")

Part Breakdown		Filter Model		
FILTER		AF9806NX	AF9808NL	AF9810NL
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring for cover	5311250100	5311250100	5311250100
4	Stud	5292143001-048	5292143001-048	5292143001-055
5	Washer	4121123001	4121123001	4121123001
6	Nut	4112140401	4112140401	4112140401
7	Coarse screen	E7005600103-01	E7005600105-01	E7005600105-01
8	Fine screen	E7005606000-02##	E7005606000-02##	E7005606000-02##
8.1	O-Ring	4081202100-445	4081202100-445	4081202100-445
8.2	Fine screen upper section	E5005600102-01##-03	E5005600102-01##-03	E5005600102-01##-03
8.2.1	Upper screen adaptor	E5005600902-03	E5005600902-03	E5005600902-03
8.2.1.1	Upper screen adaptor	5005600902	5005600902	5005600902
8.2.1.2	Screen wheel	5021640500	5021640500	5021640500
8.2.1.3	Screen bearing for shaft	5172301700	5172301700	5172301700
8.2.2	Fine screen upper section	E5005600102-01##-01	E5005600102-01##-01	E5005600102-01##-01
8.2.2.1	Fine screen upper section	W5005600102-01##	W5005600102-01##	W5005600102-01##
8.3	Fine screen middle section	W5005600300-01##	W5005600300-01##	W5005600300-01##
9	Flushing chamber	E5005601101-01	E5005601101-01	E5005601101-01
9.1	Flushing chamber	W5005601101-01	W5005601101-01	W5005601101-01
9.2	Bearing for dirt collector	5172635000	5172635000	5172635000

AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")

Part Breakdown		Filter Model		
FILTER		AF9806NX	AF9808NL	AF9810NL
10	Dirt collector	E7102300600-01	E7102300600-01	E7102300600-01
10.1	Suction nozzle	E5122670302	E5122670302	E5122670302
10.2	Dirt collector shaft	5131391710	5131391711	5131391713
10.3	Drive bolt	E6163101001-01	E6163101001-01	E6163101001-01
11	Head collector bearing	W5173390002-01	W5173390002-01	W5173390002-01
12	Hydraulic piston*	E7160406300	E7160406300	E7160406300
12.1	O-Ring	4081040100-223	4081040100-223	4081040100-223
13	Drive tube	W6073001001-01	W6073001001-01	W6073001001-01
14	Bolt	6163100503	6163100503	6163100503
15	Nut	4111053002	4111053002	4111053002
16	Std	5292113001-029	5292113001-029	5292113001-029
17	Nut	4112113901	4112113901	4112113901
18	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01
18.1	U-Ring	4082013100	4082013100	4082013100
18.2	O-Ring	4081030100	4081030100	4081030100
18.3	Sealing rope housing	5182391300	5182391300	5182391300
18.4	Sealing rope	5319000900	5319000900	5319000900
18.5	Tightening nut for sealing rope	5181391300	5181391300	5181391300
19	Gear drive shaft	E5133301901-01	E5133301901-01	E5133301901-01

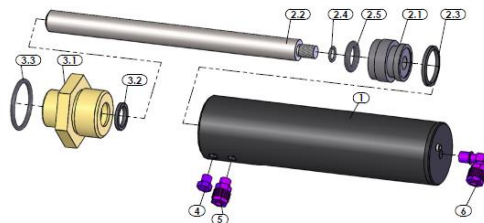
* See detail pg. 146

AUTOMATIC ELECTRIC FILTERS – Series AF9800N (3"-10")

Part Breakdown		Filter Model		
	FILTER	AF9806NX	AF9808NL	AF9810NL
19.1	Gear drive shaft	5133301901	5133301901	5133301901
19.2	External retaining ring	4133205001	4133205001	4133205001
19.3	Gear key	5203390602	5203390602	5203390602
20	Motor 3 phase	E4060251000	E4060251000	E4060251000
21	Washer	6143902301	6143902301	6143902301
22	Bolt	4102113001-020	4102113001-020	4102113001-020
23	Motor cover	5331630001	5331630001	5331630001
24	Bolt	4101063001-025	4101063001-025	4101063001-025
25	Washer	4121063001	4121063001	4121063001
26	Hydraulic valve	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M
27	Short distributor	E5412036301-01	E5412036301-01	E5412036301-01
27.1	O-Ring	4081034100-126	4081034100-126	4081034100-126
28	Pressure gauge	CS11010015	CS11010015	CS11010015
29	Plug	4640314002	4640314002	4640314002
30	Male branch T	4640214082	4640214082	4640214082
31	Male elbow	4640618082	4640618082	4640618082
32	Controller ELI-02	CSE0200114403	CSE0200114403	CSE0200114403
32.1	Solenoid AC	4430030901	4430030901	4430030901
32.2	DP pressure switch unit	4410000004	4410000004	4410000004
32.3	Control board ELI-02	8500010100-03	8500010100-03	8500010100-03
32.4	Junction box for ELI-02	8500010801	8500010801	8500010801

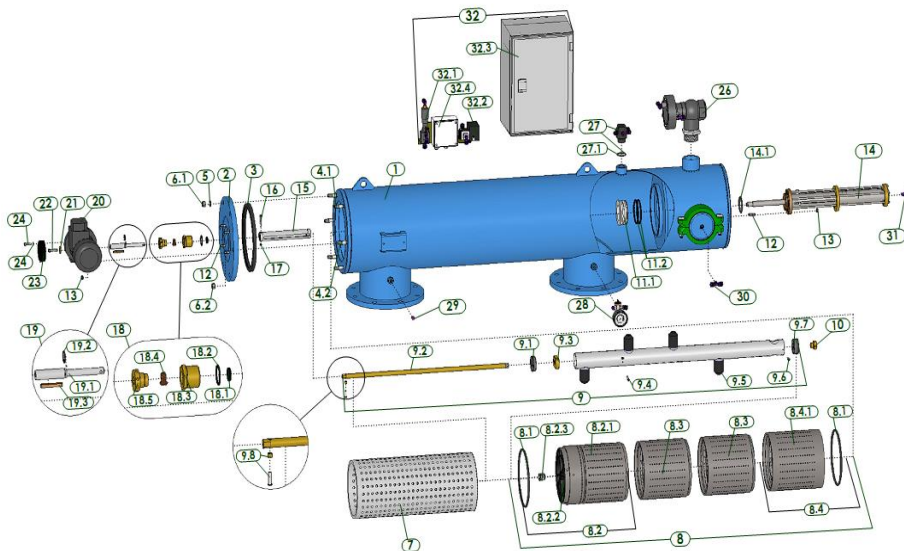
Piston for model for AF9800N

Filter Model		AF9800N
Hydraulic Piston		E7160406300
1	Piston 40 cylinder	E5161634001-01
2	Piston 40 head	E5163634001-01
2.1	Piston 40 head	5163634001
2.2	Axis for piston	5132302002
2.3	U-ring	4082030100
2.4	O-Ring	4081010100-013
2.5	O-Ring	4081018100-314
3	Piston 40 adaptor	E5164394001-01
3.1	Piston 40 adaptor metal	5164394001
3.2	U-Ring	4082020100
3.3	O-Ring	4081040100-223
4	Connector	4640318002
5	Male connector plastic	4640718085
6	Male elbow plastic	4640618082



E7160406300
model AF9800N

AUTOMATIC ELECTRIC FILTERS – Series AF9800 (10"-18")



AUTOMATIC ELECTRIC FILTERS – Series AF9800 (10"-18")

Part Breakdown		Filter Model		
FILTER		AF9810X/812R	AF9814R/816R	AF9816X/818X
1	Filter body	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A
3	U-Ring	5311400100	5311450100	5311600100
4.1	Stud	5292183001-073	5292183001-073	5292183001-080
4.2	Stud	5292183001-060	5292183001-060	5292183001-060
5	Washer	4121203001	4121203001	4121203001
6.1	Nut	4112180401	4112180401	4112180401
6.2	Half nut	4112180401-01	4112180401-01	4112180401-01
7	Coarse screen	E7006600301-01	E7007600301-01	E7008600301-01
8	Fine screen	E7006606000-02##	E7007606000-02##	E7008606001-02##
8.1	O-Ring	4081266100-450	4081291100-452	4081380100-459
8.2	Fine screen upper section	E5006600100-01##-02	E5007600100-01##-02	E5008600100-01##-02
8.2.1	Fine screen upper section	W5006600100-01##	W5007600100-01##	W5008600100-01##
8.2.2	Screen wheel	5021010600-P	5021010700-P	5021010800-P
8.2.3	Screen bearing for shaft	5172301700	5172301700	5172301700
8.3	Fine screen middle section	W5006600300-01##	W5007600300-01##	W5008600300-01##
8.4	Fine screen lower section	E5006600200-01##-01	E5007600200-01##-01	E5008600200-01##-01
8.4.1	Fine screen lower section	W5006600200-01##	W5007600200-01##	W5008600200-01##

AUTOMATIC ELECTRIC FILTERS – Series AF9800 (10"-18")

Part Breakdown		Filter Model		
FILTER		AF9810X/812R	AF9814R/816R	AF9816X/818X
9	Dirt collector	E7103300601-01	E7103300602-01	E7103300604-01
9.2	Dirt collector shaft	5131391708	5131391708	5131391708
9.3	Dirt collector middle plug	5113390301	5113390301	5113390301
9.4	Attachment screw	4102043002-019	4102043002-019	4102043002-019
9.5	Suction nozzle	5121610305	5121610305	5121610305
9.6	Attachment screw	4102043003-019	4102043003-019	4102043003-019
9.7	Dirt collector lower plug	5113610204	5113610204	5113610204
9.8	Drive bolt	E6163101001-01	E6163101001-01	E6163101001-01
10	Dirt collector head bearing	W5173390003-01	W5173390003-01	W5173390003-01
11	Collector bearing	E5172626002	E5172626002	E5172626002
11.1	Collector bearing	5172626002	5172626002	5172626002
11.2	O-Ring	4081081100-339	4081081100-339	4081081100-339
12	Stud	5292113001-029	5292113001-029	5292113001-029
13	Nut	4112113901	4112113901	4112113901
14	Hydraulic piston*	E7160403004	E7160403004	E7160403004
14.1	O-Ring	4081056100-331	4081056100-331	4081056100-331
15	Drive tube	W6073001001-01	W6073001001-01	W6073001001-01

* See detail pg. 152

AUTOMATIC ELECTRIC FILTERS – Series AF9800 (10”-18”)

Part Breakdown		Filter Model		
FILTER		AF9810X/812R	AF9814R/816R	AF9816X/818X
16	Bolt	6163100503	6163100503	6163100503
17	Nut	4111053002	4111053002	4111053002
18	Sealing rope housing	E5182391300-01	E5182391300-01	E5182391300-01
18.1	U-Ring	4082013100	4082013100	4082013100
18.2	O-Ring	4081030100	4081030100	4081030100
18.3	Sealing rope housing	5182391300	5182391300	5182391300
18.4	Sealing rope	5319000900	5319000900	5319000900
18.5	Tightening nut for sealing rope	5181391300	5181391300	5181391300
19	Gear drive shaft	E5133301901-01	E5133301901-01	E5133301901-01
19.1	Gear drive shaft	5133301901	5133301901	5133301901
19.2	External retaining ring	4133205001	4133205001	4133205001
19.3	Gear key	5203390602	5203390602	5203390602
20	Motor 3 phase	E4060251000	E4060251000	E4060251000
21	Washer	6143902301	6143902301	6143902301
22	Bolt	4102113001-020	4102113001-020	4102113001-020
23	Motor cover	5331630001	5331630001	5331630001
24	Bolt	4101063001-025	4101063001-025	4101063001-025
25	Washer	4121063001	4121063001	4121063001

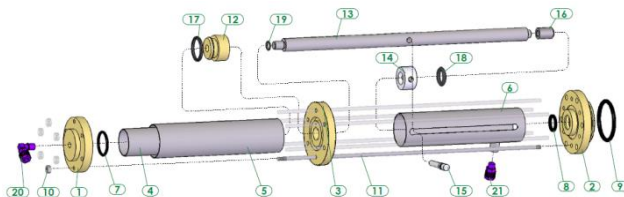
AUTOMATIC ELECTRIC FILTERS – Series AF9800 (10"-18")

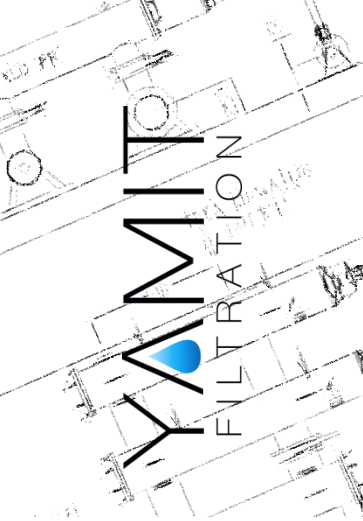
Part Breakdown		Filter Model		
FILTER		AF9810X/812R	AF9814R/816R	AF9816X/818X
26	Hydraulic valve	E4510020003-07-1M	E4510020003-07-1M	E4510020003-07-1M
27	Short distributor	E5412036301-01	E5412036301-01	E5412036301-01
27.1	O-ring	4081034100-126	4081034100-126	4081034100-126
28	Pressure gauge	CS11010015	CS11010015	CS11010015
29	Plug	4640314002	4640314002	4640314002
30	Male branch T	4640214082	4640214082	4640214082
31	Male elbow	4640618082	4640618082	4640618082
32	Controller ELI-02	CSE0200114403	CSE0200114403	CSE0200114403
32.1	Solenoid AC	4430030901	4430030901	4430030901
32.2	DP pressure switch unit	4410000004	4410000004	4410000004
32.3	Control board ELI-02	8500010100-03	8500010100-03	8500010100-03
32.4	Junction box for ELI-02 control	8500010801	8500010801	8500010801

AUTOMATIC ELECTRIC FILTERS – Piston AF9800

Filter Model		AF9800
Hydraulic Piston		E7160403000
1	Piston 40 cylinder plug	5162394001
2	Piston 40/50 adaptor	5164395002
3	Piston 40/50 middle plug	5162395003
4	Piston 40/50 cylinder	5161304001
5	Piston 40 cylinder cover	5161304002
6	Piston 40/50 anti rotation pin housing	W5161305001-01
7	O-Ring 219	4081032100-219
8	U-ring 20*28*5	4082020100
9	O-Ring 331	4081056100-331
10	Nut ¼"	4112103001
11	Stud ¼"	5292103001-441

Filter Model		AF9800
Hydraulic Piston		E7160403000
12	Piston 40 head	5163394002
13	Axis 20mm for piston 40/50	5132302001
14	Piston 40/50 anti rotation pin bushing	5160315002
15	Piston 40/50 anti rotation pin	5160315001
16	Piston 40/50 axis piston bearing	5173300002
17	U-Ring 30*40*7	4082030100
18	O-Ring 314	4081018100-314
19	O-Ring 11*2	4081010100-013
20	Male elbow 1/8*8	4640618082
21	Male connector 1/8*8	4640718085





Pre-Pump Strainer

PRE-PUMP STRAINER – Series PPS

Applications: pre-filtration to protect and extend the life of the pump and reduce the level of water solids.

Standard Characteristics:

- **Body of strainer and connections:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** Flange
- **Available filtration grades:** 1200 or 2500 micron
- **Available diameters:** 4" – 20" (other sizes are available on request)
- **Minimum operating working pressure for the flushing:** 1.5 bar (22 psi).
- The basket is equipped with a suction tube and accessories for the connection and operation of the mechanism of the hydraulic motor
- **Available Installation:** horizontal or vertical
- Flexible tube 1" including connectors - 12.5 m de long

Operation:

The PPS is installed submerged in the water source. When pumping starts, water flows through the screen and large suspended trash and solid dirt is accumulated on the outside of the screen preventing it from entering the pump and the water system. The screen is automatically self-cleaned by pressurized water sprayed from the nozzles, continuously rotating and covering the entire area of the screen (the rotation velocity is adjustable).

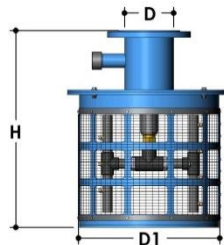


PRE-PUMP STRAINER – Series PPS

Model	Out ØD		ØD1		H		Shipping Weight		Packaging volume LxWxH	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	(kg)	(lb)	(m)	(ft)
PPS1004	100	4	478	18.82	520	20.47	60	132	0.85*0.85*0.85	2.80x2.80x2.80
PPS1006	150	6	478	18.82	670	26.38	75	165	0.85*0.85*0.85	2.80x2.80x2.80
PPS1008	200	8	478	18.82	870	34.25	80	176	0.85*0.85*1.05	2.80x2.80x3.50
PPS1010	250	10	748	29.45	790	31.1	128	282	1.00*1.00*0.95	3.30x3.30x3.10
PPS1012	300	12	748	29.45	970	38.19	141	311	1.00*1.00*1.15	3.30x3.30x3.80
PPS1014	350	14	1055	41.54	1025	40.35	On request	On request	On request	On request
PPS1016	400	16	1055	41.54	1025	40.35	On request	On request	On request	On request
PPS1018	450	18	1270	50	1032	40.63	On request	On request	On request	On request
PPS1020	500	20	1270	50	1032	40.63	On request	On request	On request	On request

* Minimum working pressure for sprinkler operation: 2-3 bares (30-45 psi).

** On request

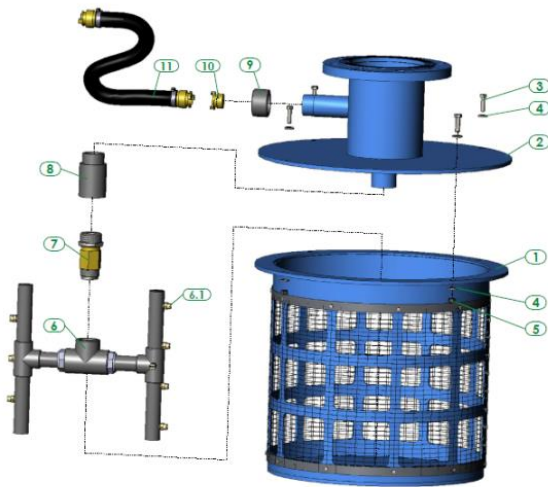


PRE-PUMP STRAINER – Series PPS

Model	Out ØD (in)	Recommended Flow rate			
		1200 µm (m3/h)	2500 µm	1200 µm (GPM)	2500 µm
PPS1004	4	80	100	350	440
PPS1006	6	150	190	660	840
PPS1008	8	300	380	1320	1670
PPS1010	10	500	630	2200	2770
PPS1012	12	700	880	3080	3870
PPS1014	14	1000	1100	4400	4840
PPS1016	16	1380	1400	6080	6160
PPS1018	18	1750	2180	7700	9600
PPS1020	20	2200	2750	9690	12100

* Maximum recommended Flow Rate - 1200 micron in good quality water

PRE-PUMP STRAINER – Series PPS



PRE-PUMP STRAINER – Series PPS

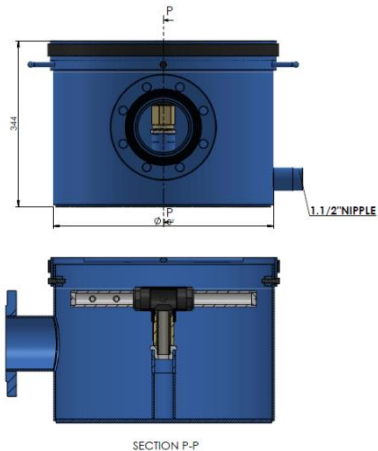
Part Breakdown		Filter Model			
FILTER		PPS1004 (4")	PPS1006 (6")	PPS1008 (8")	PPS1010 (10")
1	Filter body	N/A	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A	N/A
3	Bot	4102123001-030	4102123001-030	4102123001-030	4102123001-030
4	Washer	4122123001	4122123001	4122123001	4122123001
5	Nut	4112120401	4112120401	4112120401	4112120401
6	Rotating sprinkler	E7251047801-01	E7251047802-01	E7251047803-01	E7251074701-01
6.1	Spray nozzle	6083900001	6083900001	6083900001	6083900001
7	Rotating sprinkler bearing	E7252000401-01	E7252000601-01	E7252000601-01	E7252000601-01
8	Rotating sprinkler adaptor	----	6136301501	6136301502	6136301503
9	Reducing socket	----	6096301501	6096301501	6096301501
10	Claw coupling	4251010001	4252010001	4252010001	4252010001
11	Hose	E7253000501-01	E7253001001-01	E7253001001-01	E7253001001-01

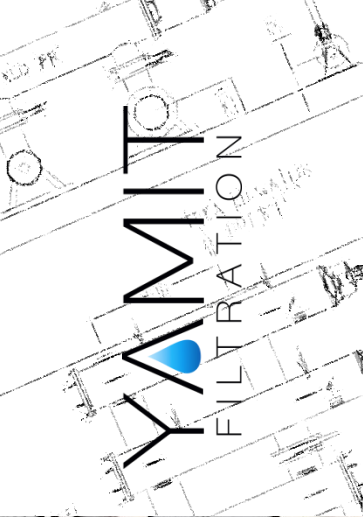
PRE-PUMP STRAINER – Series PPS

Part Breakdown		Filter Model				
FILTER		PPS1012 (12")	PPS1014 (14")	PPS1016 (16")	PPS1018 (18")	PPS1020 (20")
1	Filter body	N/A	N/A	N/A	N/A	N/A
2	Filter cover	N/A	N/A	N/A	N/A	N/A
3	Bot	4102123001-030	4102123001-030	4102123001-030	4102123001-030	4102123001-030
4	Washer	4122123001	4122123001	4122123001	4122123001	4122123001
5	Nut	4112120401	4112120401	4112120401	4112120401	4112120401
6	Rotating sprinkler	E7251074702-01	E7251105501-01	E7251105501-01	E7251127001-01	E7251127001-01
6.1	Spray nozzle	6083900001	6083900001	6083900001	6083900001	6083900001
7	Rotating sprinkler bearing	E7252000601-01	E7252000601-01	E7252000601-01	E7252000601-01	E7252000601-01
8	Rotating sprinkler adaptor	6136301504	6136301505	6136301505	6136301505	6136301505
9	Reducing socket	6096301501	6096301501	6096301501	6096301501	----
10	Claw coupling	4252010001	4252010001	4252010001	4252010001	4252010001
11	Hose	E7253001001-01	E7253001001-01	E7253001001-01	E7253001001-01	E7253001001-01

PRE-PUMP STRAINER – Series PPS

Pre-Pump Strainer for shallow water use





Fertilizing Tank

FERTILIZING TANK – Series F500

Applications: fertilizer tanks for use in agricultural applications.

Standard Characteristics:

- **Body of strainer and connections:** Carbon Steel ST37.2
- **Pre-treatment:** sand blasting up to Sa 2.5 grade
- **Exterior & Interior coating:** electrostatic oven baked polyester-epoxy powder coating with a thickness of 150-200 micron
- **Connections:** quick connection
- **Available tank volumes:** 20, 30, 60, 90, 120, 220 liters
- **Installation:** horizontal or vertical
- **Maximum operating working pressure :** up to 8 bar (116 psi).
- Fertilizer tanks require no external energy source to function, other than a pressure differential across the inlet and outlet.
- The oversized pouring mouth reduces the chance of wasted fertilizer during tank filling.
- Flexible and durable rubber joint, highly resistant to corrosion from chemicals used in agriculture.

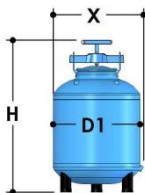
Operation:

The fertilizer tanks are simple to use and maintain. A pressure differential between the inlet and outlet connections, creates flow into the tank, displacing chemical from the tank via the outlet and into the mains.

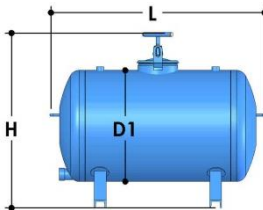


FERTILIZING TANK – Series F500

Model	ØD1 (in)	Volume		H		L		Shipping Weight	
		(lt)	(gal)	(mm)	(in)	(mm)	(in)	(kg)	(lb)
F515	16	20	5.28	525	20.67	406	15.98	18	40
F520	16	30	7.93	600	23.62	406	15.98	23	51
F530	20	60	15.85	690	27.17	495	19.49	29	64
F540	20	90	23.78	831	32.72	497	19.57	37	82
F550	20	120	31.70	1010	39.76	495	19.49	41	90
F560	20	120	31.70	740	29.13	743	29.25	42	93
F570	20	220	58.12	735	28.94	1323	52.09	51	112
F570V	25	220	58.12	1013	39.88	610	24.02	60	132
F580	25	300	79.20	970	38.20	1510	59.45	115	254



Model F515 - F550
& F570V



Model F560 - F580

FERTILIZING TANK – Series F500

Approx. Fertilization time (minutes)

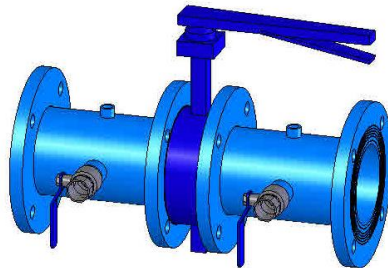
Pressure loss In/Outlet	Tank capacity						
	20 Liters	30 liters	60 liters	90 liters	120 liters	220 liters	300 liters
BAR							
0.05	20-25	30-40	60-75	105-120	120-135	225-270	330-390
0.1	15-20	20-30	45-60	75-90	90-120	150-165	225-255
0.2	10-15	15-20	30-45	45-60	60-90	105-135	165-195
0.4	6-10	10-15	20-30	30-45	45-75	75-90	90-105
PSI	5 gallons	8 gallons	15 gallons	24 gallons	32 gallons	58 gallons	79 gallons
0.7	5-6.6	8-10.5	15-19	28-32	32-36	60-70	87-103
1.5	4-5	5-8	12-15	20-24	24-32	40-44	60-67
3	2.6-4	4-5	8-12	12-16	15-24	28-36	44-52
6	1.5-2.6	2.6-4	5-8	8-12	12-20	20-24	24-28

FERTILIZING TANK – Series F500

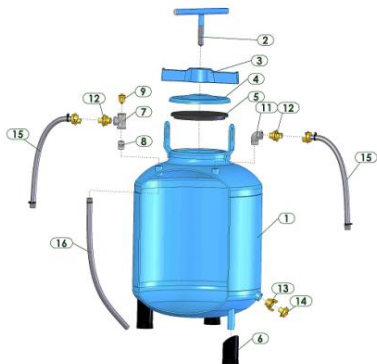
Regular Installation



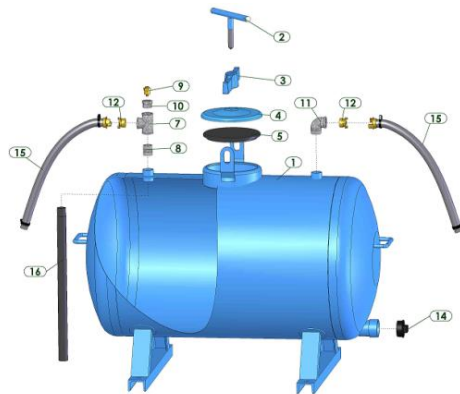
Manifold for fertilization



FERTILIZING TANK – Series F500



Model F515- F550 & F570V



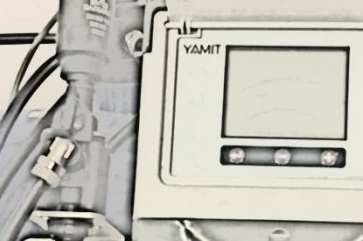
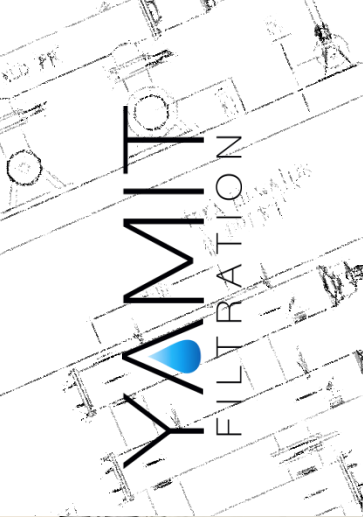
Model F560 - F580

FERTILIZING TANK – Series F500

Part Breakdown		Filter Model			
	FILTER	F515	F520	F530	F540
1	Fertilizer tank body	N/A	N/A	N/A	N/A
2	Handle	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012108000-P	6012108000-P	6012108000-P	6012108000-P
4	Cover	5320010800-P	5320010800-P	5320010800-P	5320010800-P
5	Cover gasket	5311200600-120	5311200600-120	5311200600-120	5311200600-120
6	Rubber base leg	5312007600-069	5312007600-069	5312007600-068	5312007600-068
7	T connector	4190050300	4190050300	4190050300	4190050300
8	Nipple	4220050300-030	4220050300-030	4220050300-030	4220050300-030
9	Anti-vacuum valve	E5412013901	E5412013901	E5412013901	E5412013901
10	Bushing	----	----	----	----
11	Elbow	4170050300	4170050300	4170050300	4170050300
12	Claw coupling	4252005001	4252005001	4252005001	4252005001
13	Claw coupling	4252007001	4252007001	4252007001	4252007001
14	Blank plug coupling	4254000001	4254000001	4254000001	4254000001
15	Hose	E366660000700-1500-01	E366660000700-1500-01	E366660000700-1500-01	E366660000700-1500-01
16	Inner hose	E366625001600-250	E366625001600-320	E366625001600-450	E366625001600-600

FERTILIZING TANK – Series F500

Part Breakdown		Filter Model				
FILTER		F550	F560	F570	F570V	F580
1	Fertilizer tank body	N/A	N/A	N/A	N/A	N/A
2	Handle	E6020106000	E6020106000	E6020106000	E6020106000	E6020106000
3	Tightening bracket	6012108000-P	6012108000-P	6012108000-P	6012108000-P	6012108000-P
4	Cover	5320010800-P	5320010800-P	5320010800-P	5320010800-P	5320010800-P
5	Cover gasket	5311200600-120	5311200600-120	5311200600-120	5311200600-120	5311200600-120
6	Rubber base leg	5312007600-068	----	----	----	----
7	T connector	4190050300	4190050300	4190050300	4190100300	4190100300
8	Nipple	4220050300-030	4220050300-030	4220050300-030	4220100300-035	4220100300-035
9	Anti-vacuum valve	E5412013901	E5412013901	E5412013901	E5412013901	E5412013901
10	Bushing	----	----	----	4230100300	4230100300
11	Elbow	4170050300	4170050300	4170050300	4170100300	4170100300
12	Claw coupling	4252005001	4252005001	4252005001	4252010001	4252010001
13	Claw coupling	4252007001	4252007001	4252007001	4252007001	4252007001
14	Blank plug coupling	4254000001	4254000001	4254000001	4254000001	4180206501
15	Hose	E366660000700-1500-01			E366660000800-2500-01	
16	Inner hose	E366625001600-750	E366625001600-600	E366625001600-600	6106101002	6106101001



Back Flushing Controller

BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

List of features

- The FILTRON 1-10 is a modular controller suitable for flushing 1 to 10 filters
- The FILTRON 1-10 is available in both DC or AC models
- The FILTRON 1-10 can be ordered with a built-in analog DP sensor that enables reading of the actual value as well as triggering the flushing cycle by a preset value.
- By detecting a maximum number of automatic repeating cycles, endless looping problems are automatically eliminated.
- The FILTRON 1-10 can also control a downstream pressure sustaining valve for the instances where pressure may be low during backwashing.
- The FILTRON 1-10 is equipped with a large customized LCD display and keyboard.
- The FILTRON 1-10 keeps track of all flushing cycles triggered by DP, by time and manually.
- The FILTRON 1-10 is suitable for gravel filters, disc filters and disc filters.
- In the DC model – 4 standard “D” alkaline batteries or 12v DC from an external source
- In the AC model – built-in 110V or 220V power supply

Manual Filters

Gravel Filtration System

Hydrocyclones

Semi Automatic Filters

Automatic Hydraulic Filters

Automatic Electric Filters

Pre-Pump Strainers

Fertilizer Tanks

Back Flushing Controller

Annex

F100

F200

F300

F400

F2000

F600

F660IVL

F6000

F700

SA-500C

SA-500B

SA-500S

AF200

AF100

AF800

AF9800

PPS

F500

Filtron 1-10 (DC/AC)



BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

How to program the controller

The controller is equipped with a LCD display and 4 keys as displayed below. When the unit is left untouched for a minute, the display is switched off. A beep every 20 seconds indicates that the controller is still functioning. Holding down any of the keys for a few seconds will bring the screen back to life.



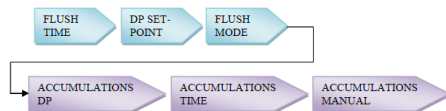
The screen consists of several fields, some of them are editable and some are not. To enable the EDIT MODE, the ENTER key has to be pushed. The EDIT MODE will begin blinking the characters to indicate the currently editable field. Each time the ENTER key is pushed again, the next editable field comes under focus and starts blinking. While in EDIT MODE, the "+" and "-" keys can be used for changing the value under focus. Pushing the ENTER key again will set the selected value for the current field and move the focus to the next editable field which will start blinking. To exit EDIT MODE repeated press the ENTER key until the FLUSH TIME field appears again (fields should not be blinking).

BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

Flush time

Defines the duration of the flushing time per station. The following options are selectable:

- 5- 20 sec. in steps of 1 sec.
- 20-55 sec. in steps of 5 sec.
- 1- 6 sec. in steps of 0.5 min



The DP set point

Note: the existence of the DP SET-POINT field depends on whether the Controller contains a built –in electronic DP or not.

In this field the user defines the pressure difference between the filter's inlet and outlet that will trigger a flushing cycle. This field is meaningless when there is no built-in electronic DP sensor included, therefore, the user must define the DP set point to be 00. As a result the actual DP value will appear as (--).

When the pressure is expressed in BAR the range of values is 0.1-2.0 BAR.

When the pressure is expressed in PSI the range of values is 1-3 PSI.

If the controller does not have an inbuilt electronic DP sensor, an external DP sensor can be used. This must be a normally closed, dry contact switch connected to the appropriate input terminals.



BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

The flush mode

The Flush Mode defines how the flushing cycles are triggered. The selectable options are as follows:

OFF no flushing will take place

By time in this case the flushing cycle will be repeated based on the selected interval or will be triggered by the DP signal depending on what happens first. Regardless of how the flushing cycle is started the interval to the next cycle will start to be re-measured at the end of each flushing cycle. The selectable intervals are as follows:

5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 minutes

2, 3, 4, 5, 6, 8, 12, 18, 24, 72, 120 hours

DP flushing will be triggered by DP only



If the “+” and “-” keys are pressed and held down simultaneously, the “Flush Mode” field will show the time remaining until the next cycle, alternately showing hours and minutes.

The accumulations

The unit accumulates and displays the number of flushing cycles caused by DP, by time, or manually. At each of the accumulation fields, the “+” or “-” keys may be used to clear the accumulated value.

BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

The configuration

In order to enter into the configuration process, press and hold down the ENTER key for at least 3 seconds.

The unit will detect how many “plug-in” boards (each of 2 outputs) are used.

How the outputs are allocated will depend on the definitions made during the configuration process described below. The following rules apply:

- 1- Back flush valves will be allocated starting from output 1 and up.
- 2- The last back-flush valve can be cancelled and then its allocated output will be left unused.
- 3- Alarm output, Delay-Valve and Main-Valve when defined, will be allocated in this order, right after the last back-flush valve (whether in use or not).

During the configuration process the following features are defined:

Main valve (sustaining valve) YES/NO. When the answer is YES the Pre Dwell delay between the main valve opening and the opening of Station nr. 1 can be defined. The selectable delay steps are:

5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 seconds.

1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6 minutes

Dwell time the delay between one station closing and the next opening– 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, or 60 sec.

DP delay the delay time for the controller to react to a signal from the DP sensor. If the signal still exists at the end of the DP delay time, the controller will initiate : 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 sec



BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

- Looping limit** the number of consecutive flushing cycles triggered by the DP sensor before deciding that there is an endless looping problem. The options are: 1-10 or “no” which means ignoring the looping problem.
- Alarm** YES/NO – allocating one output for alarm activation
- Delay valve** YES/NO – allocating an output for Delay Valve activation
- View outputs** a special mode that enables the user to review how outputs have been allocated. Use the + key to change the “no” for a “yes” and confirm by “Enter”, then keep using the + key to pass through the list. At the bottom left corner the ordinal number of the output is displayed and its allocated function appears in large letters at the center of the screen. Notice that the number of possible outputs that can be used is always an even number since the result is from the number of “plug in” boards (each of 2 outputs) included. However, if the number of outputs needed is not an even number, then the last valve allocated for flushing may be canceled by use of the STOP manual operation key.
- Pressure Unit** used to determine the units to be used for pressure measurement. Select between BAR or PSI.
- Calibration** Zero calibration of the built-in electronic DP sensor. While the sensor ports are disconnected select Calibration = YES
- Version display** the last screen of the configuration supplies information about the software version of the controller. The version consists of 4 digits : 00, 13



BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

Handling “endless looping” problems

As explained previously, endless looping problems can be detected when the number of consecutive flushing cycles triggered by the DP sensor exceeds the “looping limit” set during configuration. An endless looping problem will be indicated on the display and the ALARM output will also be activated. The DP sensor will then be ignored and subsequent flushing cycles will be triggered by the time interval count down only.

To resolve the problem, troubleshoot the reason for the constant signal from the DP sensor.

Handling low pressure

When a closed contact indication is received at the low pressure input of the controller, a symbol will appear blinking at the display. All activities will stop, including the countdown to the next flushing cycle. If the low pressure happens while a flushing sequence is in process, then, when the low pressure condition clears, the flushing sequence will start from the beginning rather than continuing from the stop point.

Low battery

The unit has two options for low battery indication: a signal on the screen, when the battery voltage drops to the first level; and a shutdown of all outputs, when the battery drops further into the second level and the screen will be cleared, leaving only the low battery icon.

BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

Manual activation

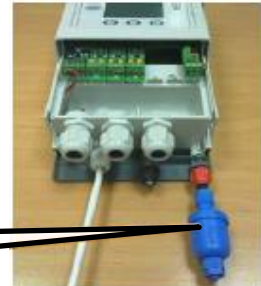
A flushing sequence can be manually activated by the MANUAL key, and a “hand” icon will appear on the display. The same key is used to manually end the sequence.

Connecting the DP sensor to the filter system

The DP sensor is connected to the filter system by 2 command tubes: the filter inlet (high pressure) is connected to the red point; the other, the filter outlet (low pressure) is connected to the black point. It is important to put a small filter of 120 mesh (*not supplied*) between the red point and the high pressure connection.



Put a small filter in between the high pressure inlet and the red point.



BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

DC MODEL

The drawing shows the wiring of the DC model of the controller.

Note:

1. The external DP sensor is optional and is intended for use in case there is no Embedded Electronic DP included.
2. The powering of the unit can be either 6v DC or 24v DC.
3. The solenoids are 12v DC latching

TECHNICAL DATA

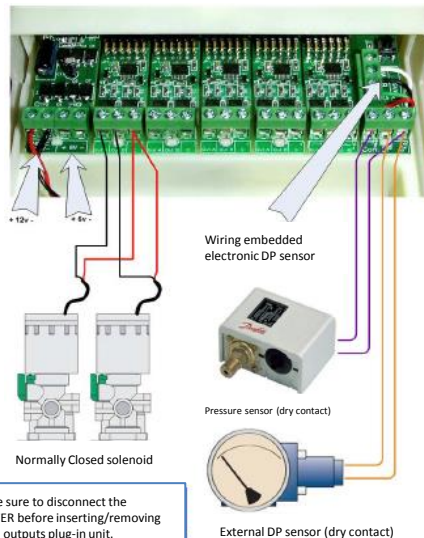
Power source: 6v supplied by 4 x1.5 “D” size alkaline batteries
or one 12v DC dry battery
or one 12v rechargeable battery with solar panel of 2

watts

Outputs: 12v DC latching solenoids
DP: embedded electronic analog DP sensor
or external dry contact DP sensor.

Pressure sensor: dry contact pressure sensor

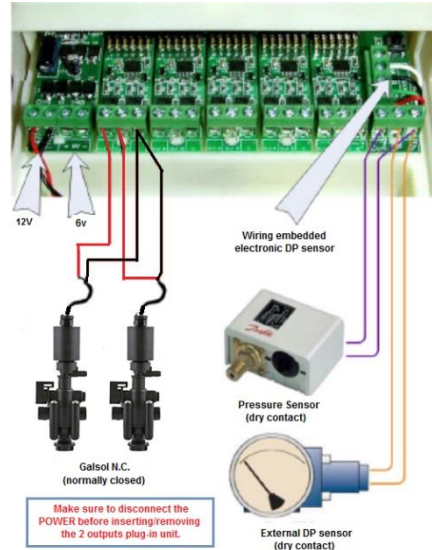
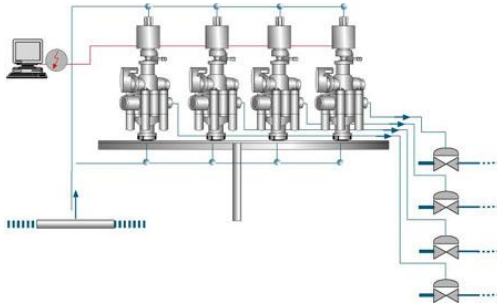
Operating temperature: 0-60° C.



Make sure to disconnect the POWER before inserting/removing the 2 outputs plug-in unit.

BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

DC MODEL – GALSOL DC



BACKFLUSHING CONTROLLER – Filtron 1-10 (AC/DC)

AC MODEL

The drawing shows the wiring of the AC model of the controller.

Note:

1. The external DP sensor is optional and is intended for use in case there is no Embedded Electronic DP included.
2. The unit is powered by a 220/110 v AC to 24V AC transformer.
3. The solenoids are 24v AC.

TECHNICAL DATA

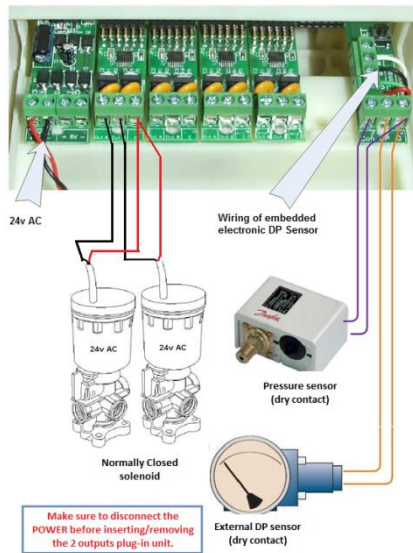
Power source: 220 or 110 v AC 50 or 60 Hz with built-in transformer to 24v AC.

Outputs: 24v AC solenoids

DP: embedded electronic analog DP sensor
or external dry contact DP sensor

Pressure sensor: dry contact pressure sensor

Operating temperature: 0-60°C.





Annex

CONVERSION TABLES

FILTRATION GRADE

Micron	10	25	30	40	50	80	100	120	150	200	400	800	1500	3000
Mesh	1500	650	550	400	300	200	150	120	100	80	40	20	10	5

FLOW RATE – metric unit

to convert	into	multiply by	Convertir a	Multiplicar por
Liter/sec (l/s)	m ³ /h	3.6	m ³ /h	3.6
Liter/sec (l/s)	U.S. gpm	15.85	U.S. gpm	15.85
Liter/hour (l/h)	U.S. gpm	0.0044	U.S. gpm	0.0044
m ³ /h	U.S. Gpm	4.403	U.S. Gpm	4.403

U.S. unit

to convert	into	multiply by	Convertir a	Multiplicar por
m ³ /h	Liter/sec (l/s)	0.2778	Litro/segundo (l/s)	0.2778
U.S. gpm	Liter/sec (l/s)	0.06309	Litro/segundo (l/s)	0.06309
U.S. gpm	Liter/hour (l/h)	227.1	Litro/hora (l/h)	227.1
U.S. gpm	m ³ /h	0.2271	m ³ /h	0.2271

VELOCITY– metric unit

to convert	into	multiply by
Meter/sec (m/s)	ft/sec	3.28
Meter/sec (m/s)	Mile/hour	0.44704
m ³ /h/m ² (=m/h)	U.S. gpm/ft ³	0.409

U.S. unit

to convert	into	multiply by
ft/sec	Meter/sec (m/s)	0.30488
Mile/hour	Meter/sec (m/s)	2.2369
U.S. gpm/ft ³	m ³ /h/m ² (=m/h)	2.44

CONVERSION TABLES

PRESSURE/HEAD – metric unit

to convert	into	multiply by
Meter (W.C.)	kPascal (kpa)	9.807
Kg/cm2	Meter (w.c.)	10
Kg/cm2	kPascal (kpa)	98.068
Kg/cm2	P.S.I.	14.2
Bar	P.S.I.	14.5
Bar	Millibar	1000
bar	Mpascal (mpa)	0.1

ENERGY

to convert	into	multiply by
Kilowatt	HP-metro	1.36
Kilowatt	HP – U.S.	1.34
HP-meter	Kilowatt	0.736
HP – U.S.	Kilowatt	0.746

U.S. unit

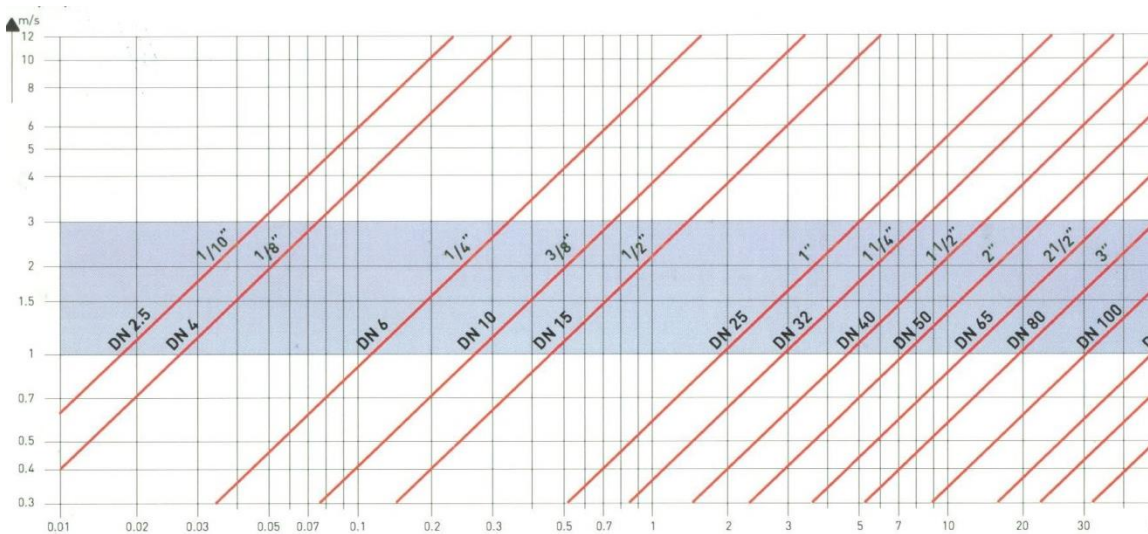
* w.c. –water column

to convert	into	multiply by
kPascal (kpa)	Meter (W.C.)	0.102
Meter (w.c.)	Kg/cm2	0.1
kPascal (kpa)	Kg/cm2	0.0102
P.S.I.	Kg/cm2	0.0703
P.S.I.	Bar	0.0689
Millibar	Bar	0.001
Mpascal (mpa)	bar	10

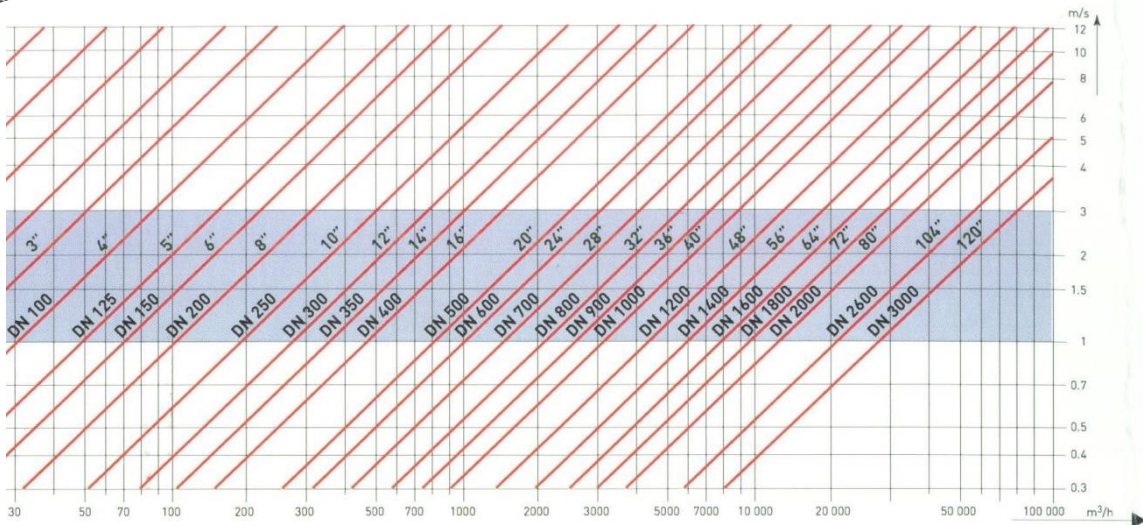
CONCENTRATION

to convert	into	multiply by
Porcentaje (%)	p.p.m	10000
ml/litro	p.p.m	1000
ml/m3	p.p.m	1
p.p.m	Percent (%)	0.0001
p.p.m	ml/litro	0.001

CONVERSION TABLES



CONVERSION TABLES



SPECIAL APPLICATIONS



Oil & Gas Industry



Off-Shore Platform



Wastewater Treatment



YAMIT
FILTRATION

V Nov-20
9005100000

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