



ODISMATIC® ELECTRIC FILTERS - SUCTION CLEANING

The **Odismatic® Electric Filters** are an automatic self-cleaning heavy-duty electrically operated screen filters designed to treat water for drinking, industry, recycling applications and irrigation. The filters uniqueness lies in the efficient, economical automatic self-cleaning mechanism. It combines a **Self-Adjusting (S.A - patent pending) suction nozzles** driven by a unidirectional electrical motor and a **reversing direction screw (S.A - patent pending)** which enables a continuous linear movement (back and forth) of the cleaning mechanism. The nozzles are self-adjusting in accordance with the screen surface. The accurate contact point between the unique S.A nozzle and the screen insures an increased suction ability and decreases significantly the water consumption during flushing. The above mechanism is designated for perfect screen cleaning. The screen cleaning process does not interrupt the filtration process.

ODIS offers two series of **Odismatic® Electric Filters**:

Series	Description	General View
OME82	Automatic Self Cleaning Screen Filter specially designed for high flow rates and high load of dirt due to a very large screen filtering area. Available in the following inlet sizes: 12", 14", 16", 18", 20".	
OME83	Economic Automatic Self Cleaning Screen Filter for liquid containing large quantities of dirt. Available in the following inlet sizes: 2, 3", 4", 6", 8", 10", 12", 14".	

Principle of operation:

The process consists of two filtration stages:

First stage - coarse filtration: the raw water enters the filter through the inlet and passes through the coarse screen to the inside of the filter. This prevents passage of large particles which may damage the filter internals.

Second stage - fine filtration: The water passes through the fine screen from inside out to the filtered water chamber and exits through the outlet. As the water passes through the fine screen, the solids accumulate creating a cake of dirt on the inner surface of the screen. As a result the pressure drop across the screen increases, and when it reaches a pre-set level (0.5 bar. 7.5 psi) the filter controller activates the self-cleaning process.

SERIES OME82 - Technical Data

Screen Area & Recommended Flow Rates

Model	Inlet/Outlet diameter		Max. Flow Rate		Flushing Flow Rate		Screen Area	
	inch	mm	m ³ /h	gpm	m ³ /h	gpm	cm ²	sq.inch
OME8212	12"	300	600	2630	17	75	10050	1560
OME8214	14"	350	800	3520	17	75	10050	1560
OME8216	16"	400	1000	4400	17	75	10050	1560
OME8218	18"	450	1300	5725	20	75	16150	2500
OME8220	20"	500	1600	7050	20	75	16150	2500

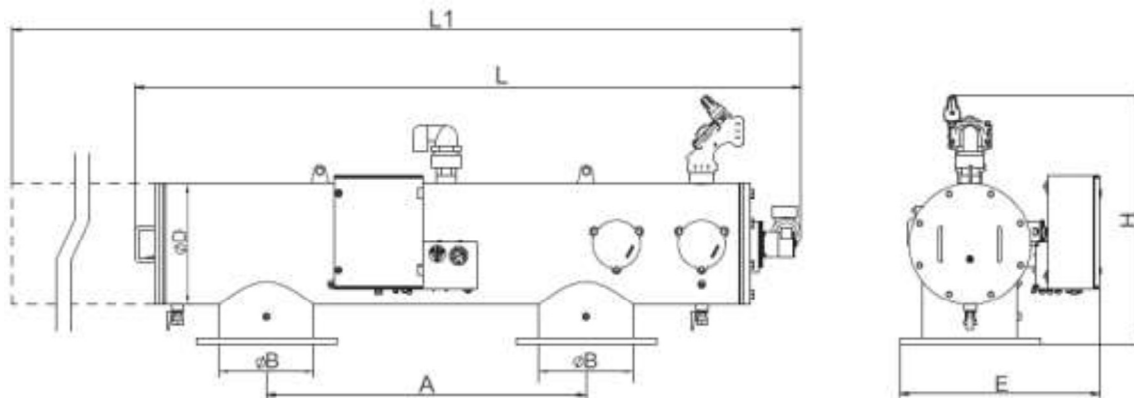
- The max. flow rate refers to screens over 200 microns/less than 80 mesh.
For finer filtration degrees consult our representative.

Dimensions & Weight Metric Units

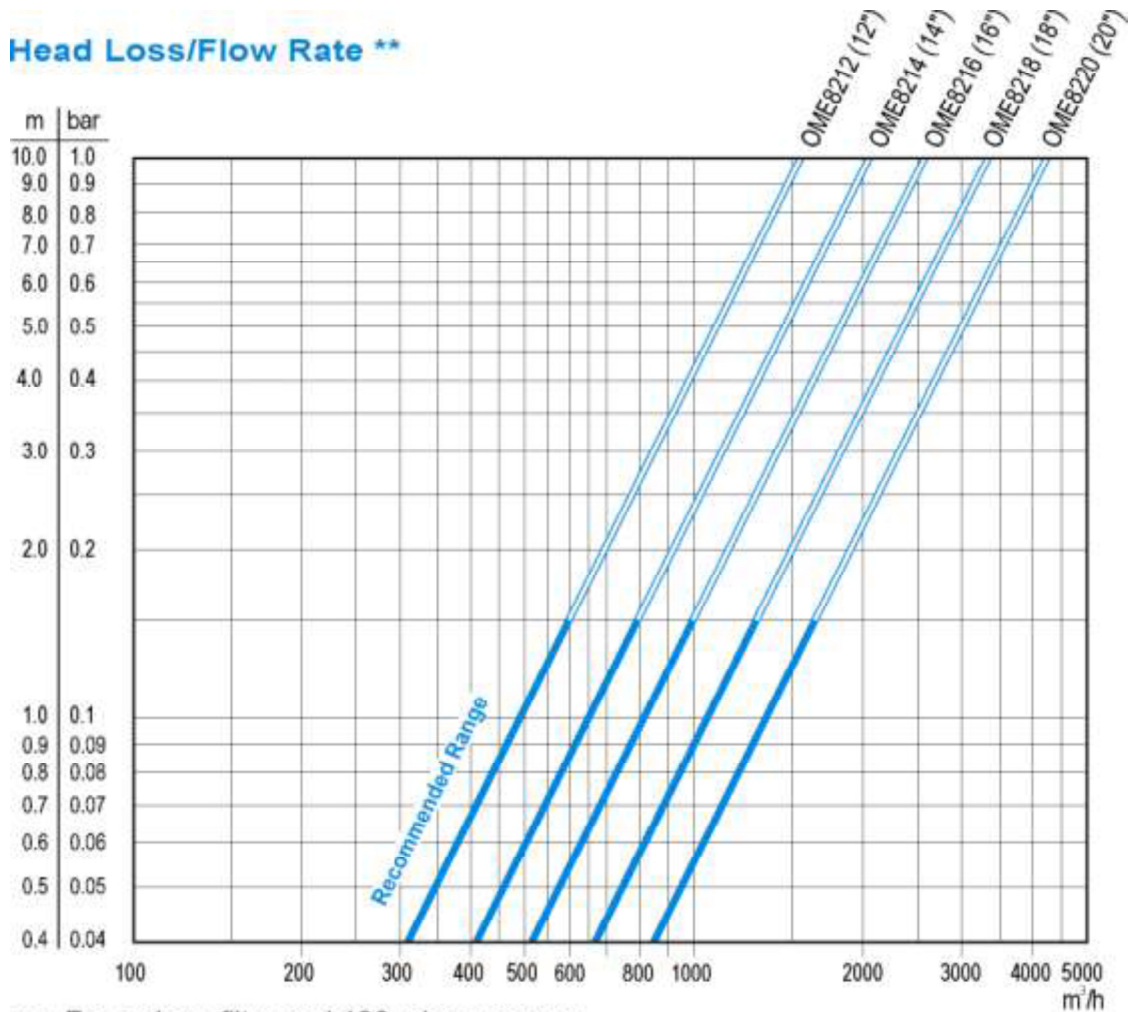
Model	B		D (mm)	A (mm)	H (mm)	E (mm)	L (mm)	L1 (mm)	Weight (kg)
	inch	mm							
OME8212	12"	300	457	1200	890	700	2600	4490	450
OME8214	14"	350	457	1200	890	735	2600	4490	465
OME8216	16"	400	457	1200	890	760	2600	4490	480
OME8218	18"	450	609	1400	1140	860	2890	4990	650
OME8220	20"	500	609	1400	1140	895	2890	4990	679

Dimensions & Weight U.S. Units

Model	B (inch)	D (inch)	A (inch)	H (inch)	E (inch)	L (inch)	L1 (inch)	Weight (lbs)
OME8212	12"	18"	47.25	35	28	103	177	992
OME8214	14"	18"	47.25	35	29	103	177	1025
OME8216	16"	18"	47.25	35	30	103	177	1058
OME8218	18"	24"	55.10	45	34	114	197	1433
OME8220	20"	24"	55.10	45	35	114	197	1497



Head Loss/Flow Rate **



** For a clean filter and 120 micron screen
 ■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C)=14.5 psi

Filtering Grades:

Mesh	500	300	200	150	120	100	80	50	40
Micron	30	50	80	100	120	150	200	300	400

- Coarse screen - Perforated cylinder.
- Fine screen - Multi layer stainless steel wire mesh sintered together.

SERIES OME83 - Technical Data

Screen Area & Recommended Flow Rates

Model	Inlet/Outlet diameter		Max. Flow Rate		Flushing Flow Rate		Screen Area	
	inch	mm	m ³ /h	gpm	m ³ /h	gpm	cm ²	sq.inch
OME8302	2"	50	25	110	8	35	2500	390
OME8303	3"	80	40	170	8	35	2500	390
OME8304	4"	100	80	350	10	44	4000	620
OME8306	6"	150	150	660	10	44	4000	620
OME8308	8"	200	300	1300	12	53	6000	930
OME8310	10"	250	400	1750	12	53	6000	930
OME8312	12"	300	470	2050	14	62	8000	1240
OME8314	14"	350	550	2400	14	62	8000	1240

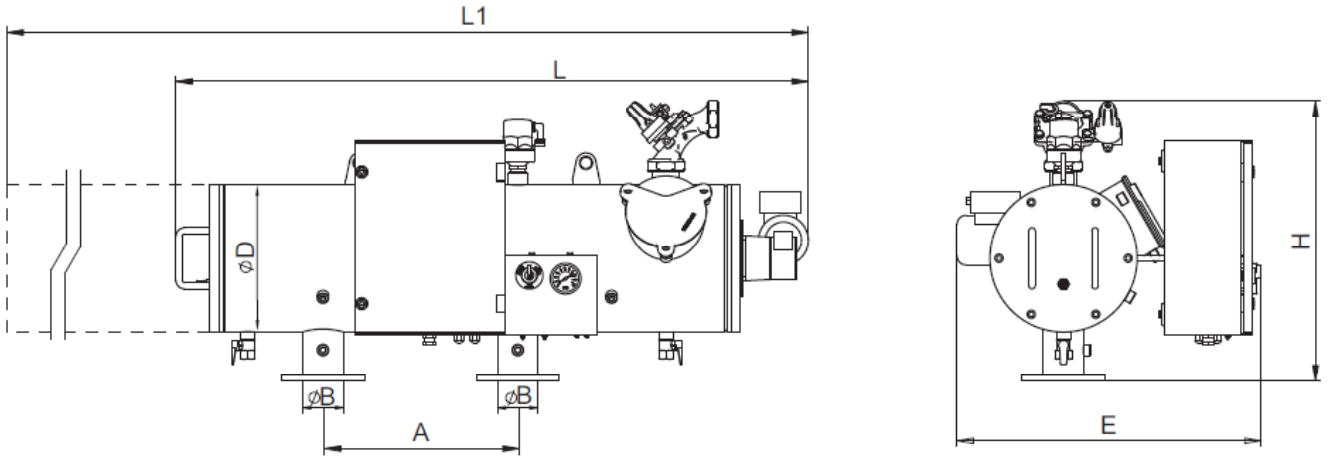
- The max. flow rate refers to screens over 200 microns/less than 80 mesh.
- For finer filtration degrees consult our representative.

Dimensions & Weight Metric Units

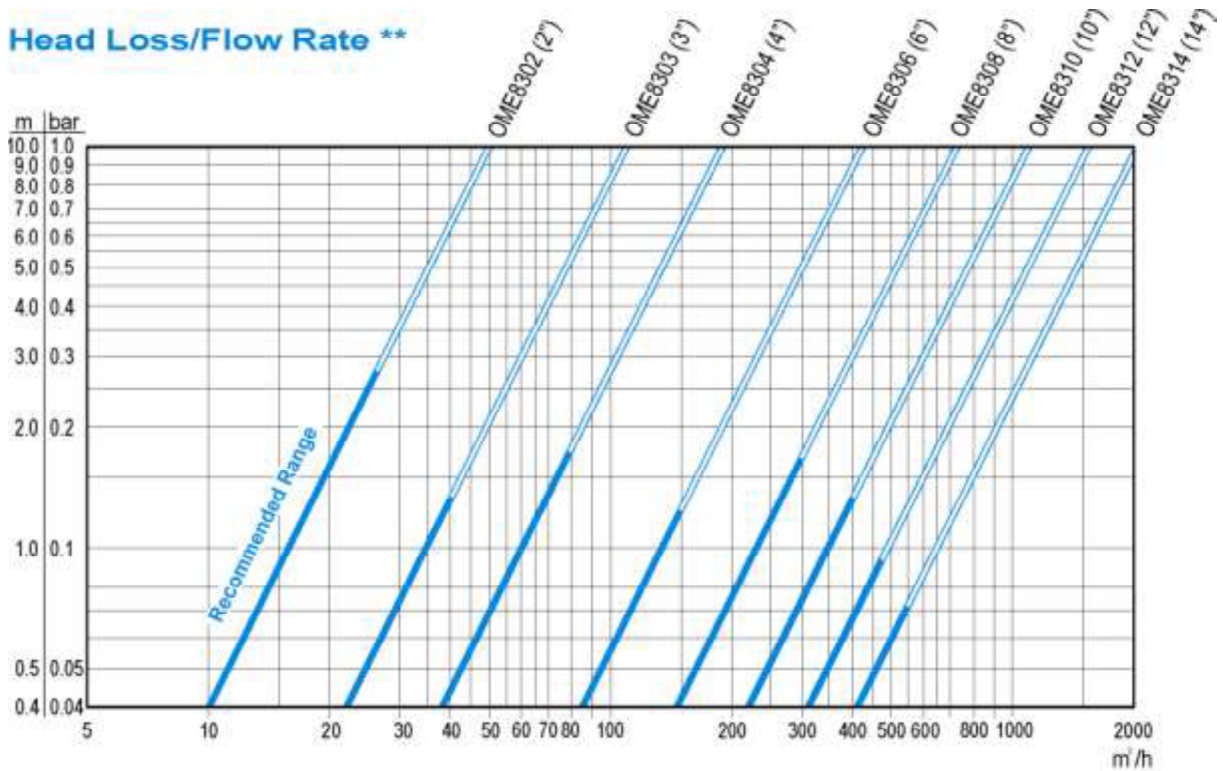
Model	B		D (mm)	A (mm)	H (mm)	E (mm)	L (mm)	L1 (mm)	Weight (kg)
	inch	mm							
OME8302	2"	50	323	430	650	680	1480	2480	175
OME8303	3"	80	323	430	650	680	1480	2480	178
OME8304	4"	100	323	600	650	680	1660	2780	212
OME8306	6"	150	323	600	650	680	1660	2780	215
OME8308	8"	200	406	780	780	715	1925	3280	312
OME8310	10"	250	406	780	780	715	1925	3280	318
OME8312	12"	300	406	990	780	715	2225	3830	350
OME8314	14"	350	406	990	780	715	2225	3830	376

Dimensions & Weight U.S. Units

Model	B (inch)	D (inch)	A (inch)	H (inch)	E (inch)	L (inch)	L1 (inch)	Weight (lbs)
OME8302	2"	12"	16.9	26	27	58	98	386
OME8303	3"	12"	16.9	26	27	58	98	393
OME8304	4"	12"	23.6	26	27	65	110	468
OME8306	6"	12"	23.6	26	27	65	110	474
OME8308	8"	16"	30.7	31	28	76	129	688
OME8310	10"	16"	30.7	31	28	76	129	701
OME8312	12"	16"	39	31	28	88	151	772
OME8314	14"	16"	39	31	28	88	151	829



Head Loss/Flow Rate **



** For a clean filter and 120 micron screen
 ■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C)=14.5 psi

Filtering Grades:

Mesh	500	300	200	150	120	100	80	50	40
Micron	30	50	80	100	120	150	200	300	400

- Coarse screen - Perforated cylinder.
- Fine screen - Multi layer stainless steel wire mesh sintered together.

ODISMATIC® ELECTRIC FILTER – BRUSH CLEANING

The **Odismatic® Electric Brush Filters** are an automatic self-cleaning heavy-duty electrically operated screen filters designed to treat water for industry, recycling applications, municipal sewage, cooling towers process water, pre filtration and protection of hydraulic equipment like pumps valves and spraying nozzles. ODIS brush filters are equipped with self-adjusting brushes mechanism assembly operated by an electric motor for efficient cleaning of the entire screen area. The screen cleaning process does not interrupt the filtration process.

Available in the following inlet sizes:
4", 6", 8", 10" 12", 14".



Principle of operation:

The water passes through the fine screen from inside out to the filtered water chamber and exits through the outlet. As the water passes through the fine screen, the solids accumulate creating a cake of dirt on the inner surface of the screen. As a result the pressure drop across the screen increases, and when it reaches a pre-set level (0.5 bar. 7.5 psi) the filter controller activates the self-cleaning process.

Screen Area & Recommended Flow Rates

Model	Inlet/Outlet diameter		Max. Flow Rate		Screen Area	
	inch	mm	m ³ /h	gpm	cm ²	sq.inch
OMB8904	4"	100	80	350	3500	540
OMB8906	6"	150	160	705	5000	775
OMB8908	8"	200	300	1320	6000	930
OMB8910	10"	250	500	2200	7500	1160
OMB8912	12"	300	650	2860	10400	1610
OMB8914	14"	350	1000	4400	10400	1610

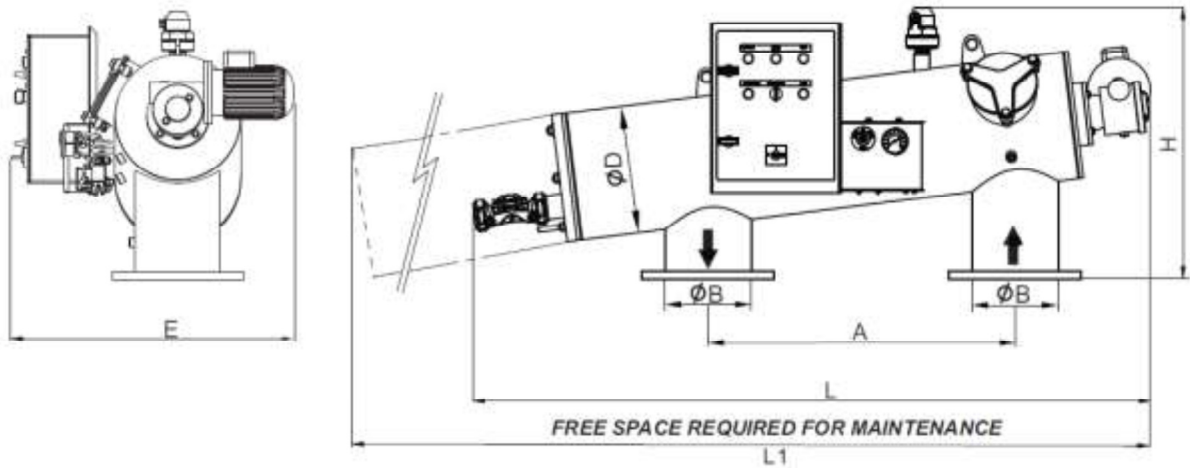
- The max. flow rate refers to screens over 200 microns/less than 80 mesh.

Filtering Grades:

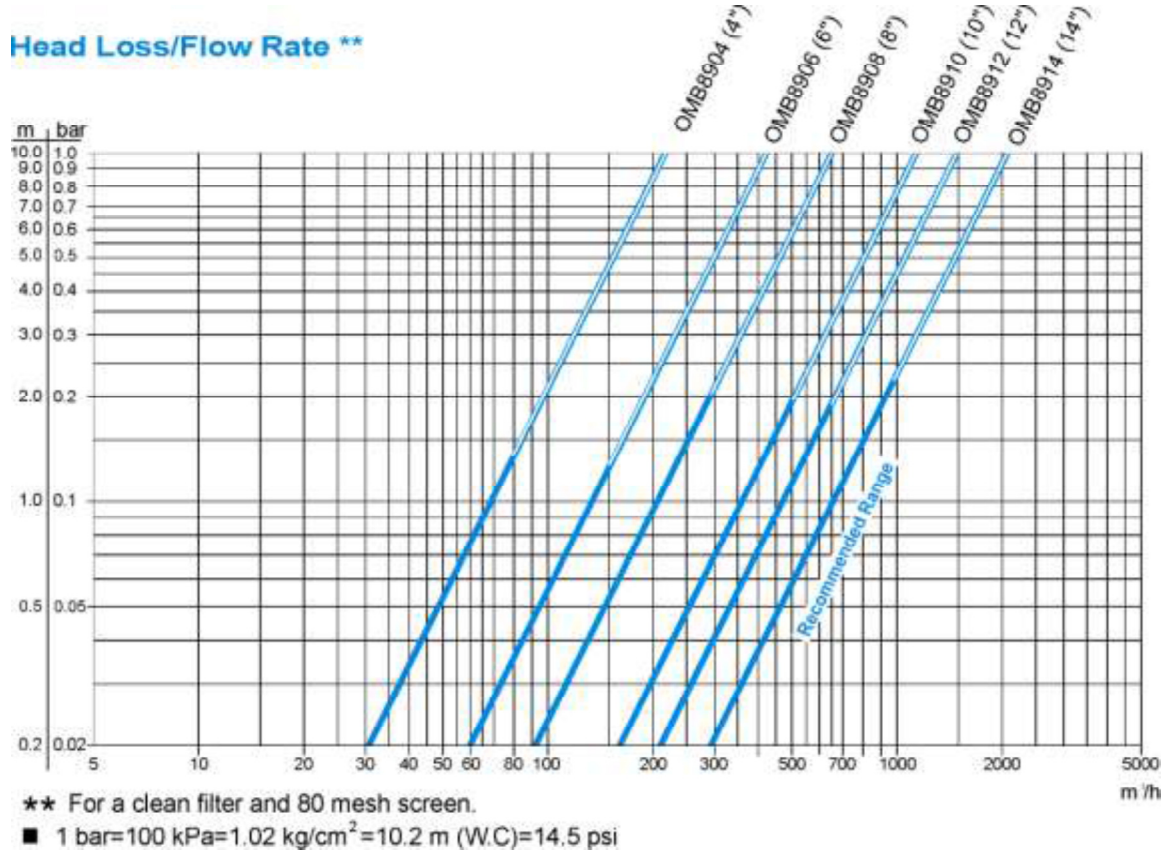
Mesh	80	50	40	20	10	5
Micron	200	300	400	800	1500	3000

Dimensions & Weight

Model	B	D	A		H		E		L		L1		Weight	
	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
OMB8904	4"	12"	600	23.6	650	26	725	29	1290	51	1660	66	125	275
OMB8906	6"	12"	600	23.6	655	26	725	29	1545	61	2160	85	155	345
OMB8908	8"	12"	780	30.7	690	27	725	29	1730	68	2465	97	170	335
OMB8910	10"	16"	780	30.7	850	34	765	30	2050	81	2710	107	265	585
OMB8912	12"	18"	990	39.0	965	38	790	31	2210	87	2930	116	280	620
OMB8914	14"	18"	990	39.0	965	38	790	31	2210	87	2930	116	300	660



Head Loss/Flow Rate **






ODISMATIC® HYDRAULIC FILTERS

OdisMatic® Hydraulic Filters are automatic self-cleaning hydraulically operated screen filters. These filters are designed to treat water for drinking, industry, recycling applications and irrigation. The filters are a perfect solution for use in places without electricity.

The filters uniqueness lies in the automatic suction system for cleaning the screen. This system is operated by the inline water pressure without interfering with the filtration process.

The screen cleaning process is short, efficient, saves water and leaves the screen clean.

OdisMatic® Hydraulic Filters Series:

Series	Description	General View
OMH71	<p>Compact automatic screen filter. The compact design allows installation in limited space.</p> <p>Available in the following inlet sizes: ¾", 1", 1½", 2", 3", 4", 6, 8.</p>	
OMH72	<p>Automatic Self Cleaning Screen Filter specially designed for high flow rates and high load of dirt due to a very large screen filtering area.</p> <p>Available in the following inlet sizes: 12", 14", 16", 18", 20"</p>	
OMH73	<p>Economic Automatic Self Cleaning Screen Filter for liquid containing large quantities of dirt.</p> <p>Available in the following inlet sizes: 2, 3", 4", 6", 8", 10", 12", 14"</p>	

Series OMH72 and OMH73 introduce revolutionary perception in the field of the self cleaning hydraulic filters. The collector assembly is driven by hydraulic motor connected to a reversing direction shaft which enables a continuous linear movement (back and forth) of the collector assembly.

Principle of operation:

The process consists of two filtration stages:

First stage - coarse filtration (Series OMH72 and OMH73 only): the raw water enters the filter through the inlet and passes through coarse screen to the inside of the filter. This prevents passage of large particles which may damage the filter internals.

Second stage - fine filtration (all series): The water passes through the screen from inside out to the filtered water chamber and exits through the outlet. As the water passes through the fine screen, the solids accumulate creating a cake of dirt on the inner surface of the screen. As a result the pressure drop across the screen increases, and when it reaches a preset level (0.5 bar . 7.5 psi) the filter controller activates the self cleaning process.

SERIES OMH71 - Technical Data

Screen Area & Recommended Flow Rates

Model	Inlet/Outlet diameter		Max. Flow Rate		Flushing Flow Rate		Screen Area	
	inch	mm	m ³ /h	gpm	m ³ /h	gpm	cm ²	sq.inch
OMH7107	¾"	20	4	18	2	9	270	45
OMH7101	1"	25	7	31	2	9	270	45
OMH7115	1½"	40	15	66	4	17	850	130
OMH7102	2"	50	25	110	4	17	850	130
OMH7103	3"	80	40	170	4	17	1450	225
OMH7104	4"	100	80	350	4	17	1450	225
OMH7104L	4"	100	80	350	8	35	2360	365
OMH7106	6"	150	150	660	8	35	4500	700
OMH7108	8"	200	300	1300	12	53	6200	960

- The max. flow rate refers to screens over 200 microns/less than 80 mesh. For finer filtration degrees consult our representative.

Filtering Grades:

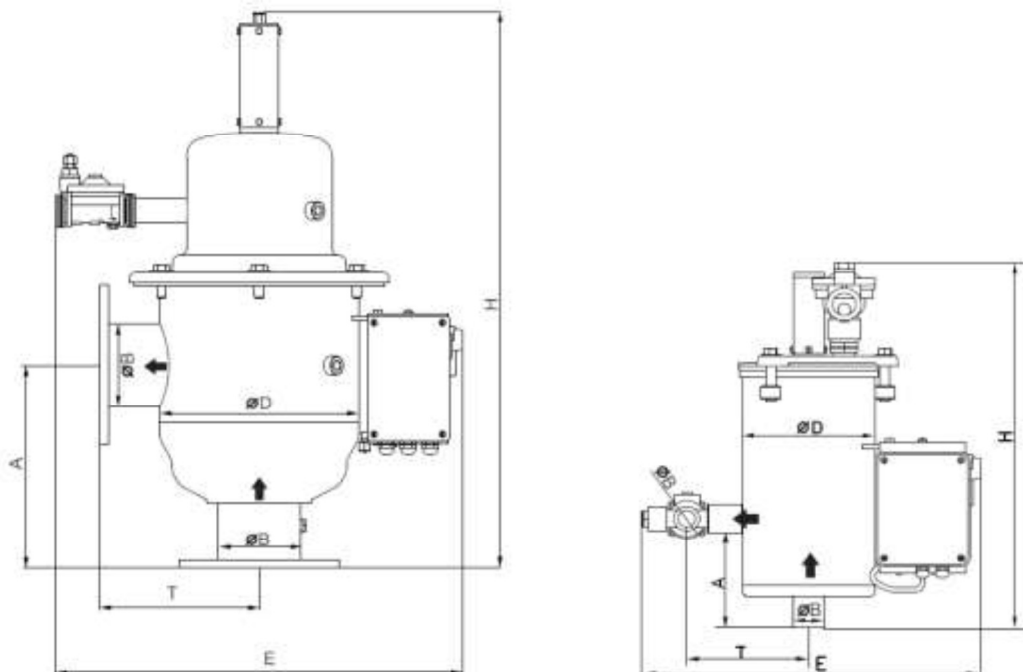
Mesh	500	300	200	150	120	100	80	50	40
Micron	30	50	80	100	120	150	200	300	400

- Fine screen - Multi layer stainless steel wire mesh sintered together.

Dimensions & Weight Metric Units/ U.S. Units

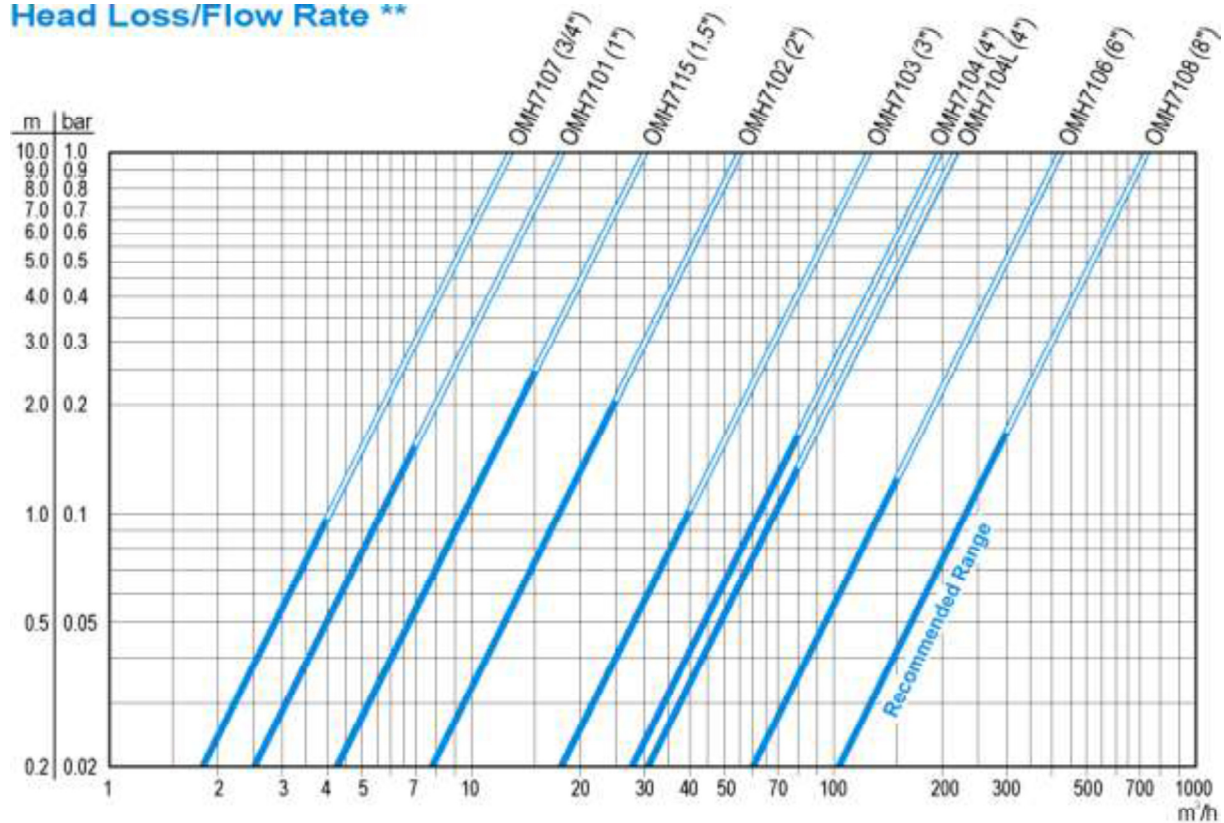
Model	B	D	A*		H*		E*		T		Weight	
	inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
OMH7107M	¾"	6"	150	5.9	410	16	500	18	155	6.1	11	24
OMH7101M	1"	6"	150	5.9	410	16	500	18	155	6.1	11	24
OMH7115M	1½"	10"	188	7.4	540	21	560	22	175	6.9	25	55
OMH7115F	1½"	10"	230	9.1	540	21	600	24	220	8.7	26	57
OMH7102M	2"	10"	196	7.7	540	21	570	23	185	7.3	27	60
OMH7102F	2"	10"	230	9.1	540	21	600	24	220	8.7	28	62
OMH7103M	3"	10"	260	10.2	540	21	750	30	195	7.7	40	88
OMH7103F	3"	10"	280	11	540	21	770	31	220	8.7	41	90
OMH7104F	4"	10"	280	11	540	21	770	31	220	8.7	42	92
OMH7104LF	4"	10"	280	11	540	21	905	36	220	8.7	48	106
OMH7106F	6"	12"	540	21.2	600	24	1310	52	320	12.6	65	143
OMH7108F	8"	12"	700	27.6	600	24	1530	60	320	12.6	78	172

*For victaulic connection decrease 5 mm / 0.15 inch from F model.



Head Loss/Flow Rate **

Head Loss/Flow Rate **



** For a clean filter and 120 micron screen

■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C)=14.5 psi

SERIES ODH72 - Technical Data

Screen Area & Recommended Flow Rates

Model	Inlet/Outlet diameter		Max. Flow Rate		Flushing Flow Rate		Screen Area	
	inch	mm	m ³ /h	gpm	m ³ /h	gpm	cm ²	sq.inch
ODH7212	12"	300	600	2630	34	150	10050	1560
ODH7214	14"	350	800	3520	34	150	10050	1560
ODH7216	16"	400	1000	4400	34	150	10050	1560
ODH7218	18"	450	1300	5725	34	150	16150	2500
ODH7220	20"	500	1600	7050	34	150	16150	2500

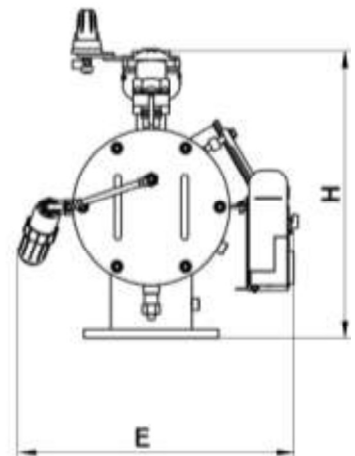
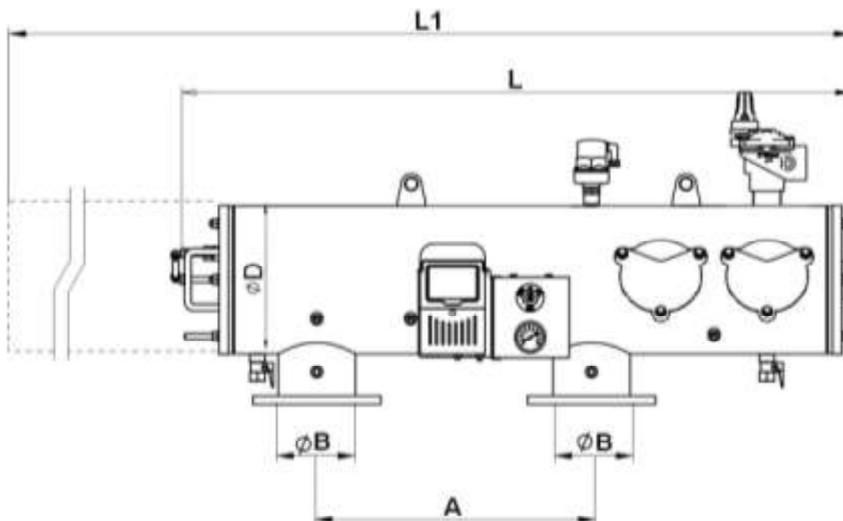
- The max. flow rate refers to screens over 200 microns/less than 80 mesh.
- For finer filtration degrees consult our representative.

Dimensions & Weight Metric Units

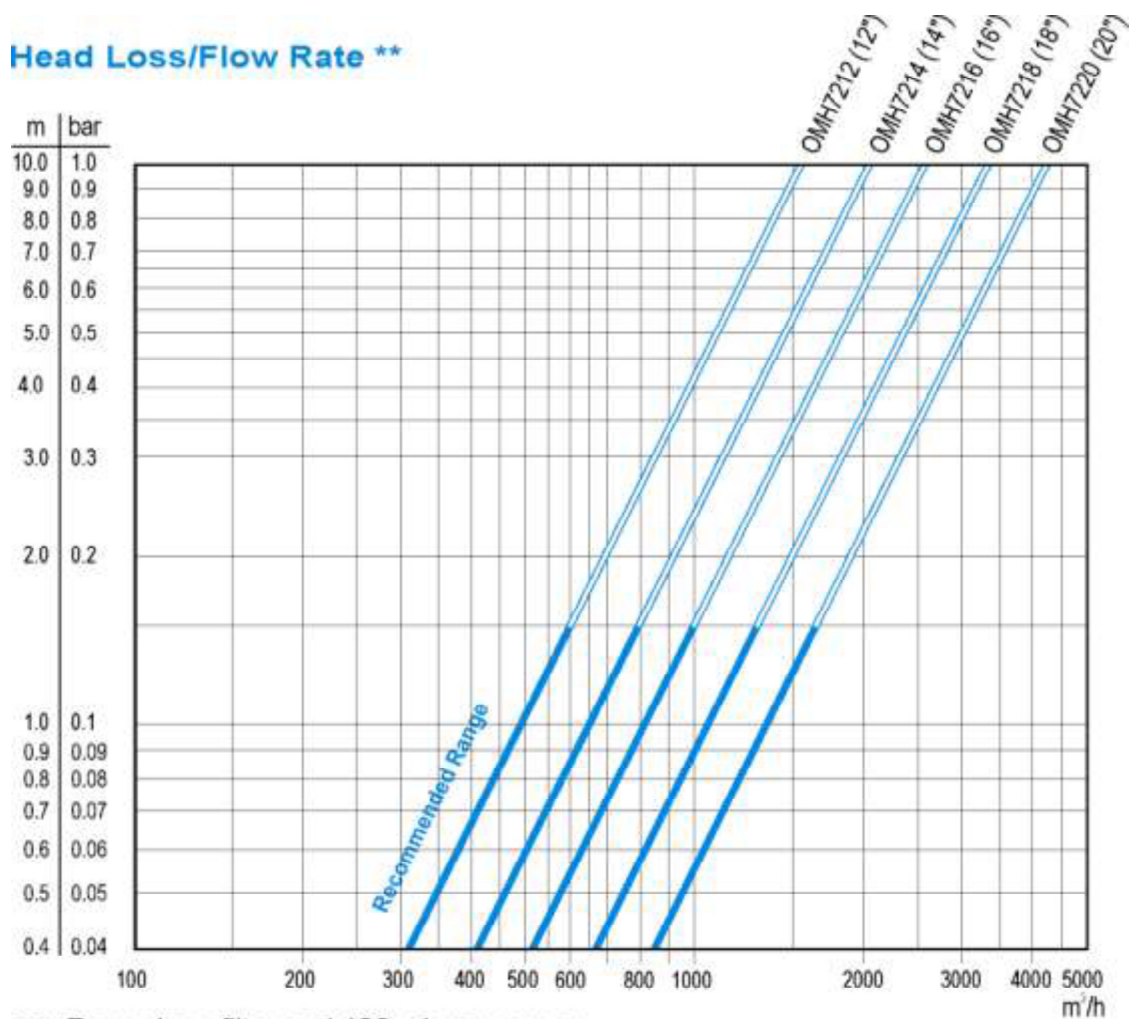
Model	B		D (mm)	A (mm)	H (mm)	E (mm)	L (mm)	L1 (mm)	Weight (kg)
	inch	mm							
OMH7212	12"	300	18"	1200	880	670	2340	4250	430
OMH7214	14"	350	18"	1200	880	670	2340	4250	450
OMH7216	16"	400	18"	1200	880	670	2340	4250	465
OMH7218	18"	450	24"	1400	1160	820	2660	4750	635
OMH7220	20"	500	24"	1400	1160	820	2660	4750	665

Dimensions & Weight U.S. Units

Model	B (inch)	D (inch)	A (inch)	H (inch)	E (inch)	L (inch)	L1 (inch)	Weight (lbs)
OMH7212	12"	18"	47.25	35	27	92	168	948
OMH7214	14"	18"	47.25	35	27	92	168	992
OMH7216	16"	18"	47.25	35	27	92	168	1025
OMH7218	18"	24"	55.10	46	33	105	187	1400
OMH7220	20"	24"	55.10	46	33	105	187	1466



Head Loss/Flow Rate **



** For a clean filter and 120 micron screen
 ■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C)=14.5 psi

Filtering Grades:

Mesh	500	300	200	150	120	100	80	50	40
Micron	30	50	80	100	120	150	200	300	400

- Coarse screen - Perforated cylinder.
- Fine screen - Multi layer stainless steel wire mesh sintered together.

SERIES OMH73 - Technical Data

Screen Area & Recommended Flow Rates

Model	Inlet/Outlet diameter		Max. Flow Rate		Flushing Flow Rate		Screen Area	
	inch	mm	m ³ /h	gpm	m ³ /h	gpm	cm ²	sq.inch
OMH7302	2"	50	25	110	11	48	2500	390
OMH7303	3"	80	40	170	11	48	2500	390
OMH7304	4"	100	80	350	16	70	4000	620
OMH7306	6"	150	150	660	16	70	4000	620
OMH7308	8"	200	300	1300	22	97	6000	930
OMH7310	10"	250	400	1750	22	97	6000	930
OMH7312	12"	300	470	2050	28	123	8000	1240
OMH7314	14"	350	550	2400	28	123	8000	1240

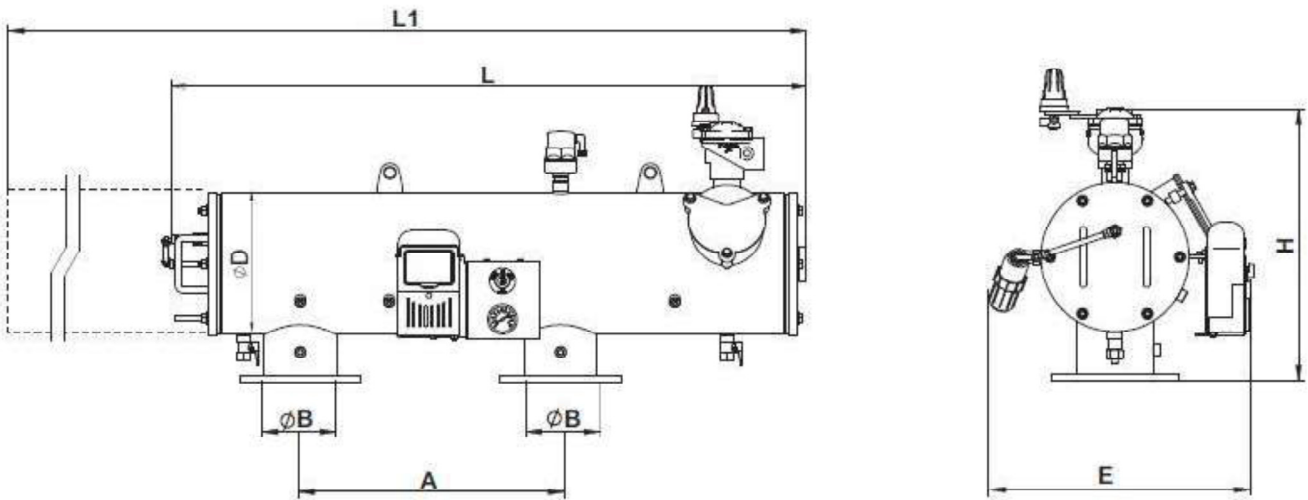
- The max. flow rate refers to screens over 200 microns/less than 80 mesh.
- For finer filtration degrees consult our representative.

Dimensions & Weight Metric Units

Model	B		D (inch)	A (mm)	H (mm)	E (mm)	L (mm)	L1 (mm)	Weight (kg)
	inch	mm							
OMH7302	2"	50	12"	430	630	680	1280	2540	159
OMH7303	3"	80	12"	430	630	680	1280	2540	162
OMH7304	4"	100	12"	600	630	680	1470	2840	195
OMH7306	6"	150	12"	600	630	680	1470	2840	200
OMH7308	8"	200	16"	780	800	740	1720	3340	295
OMH7310	10"	250	16"	780	800	740	1720	3340	300
OMH7312	12"	300	16"	990	800	740	2030	3890	335
OMH7314	14"	350	16"	990	800	740	2030	3890	360

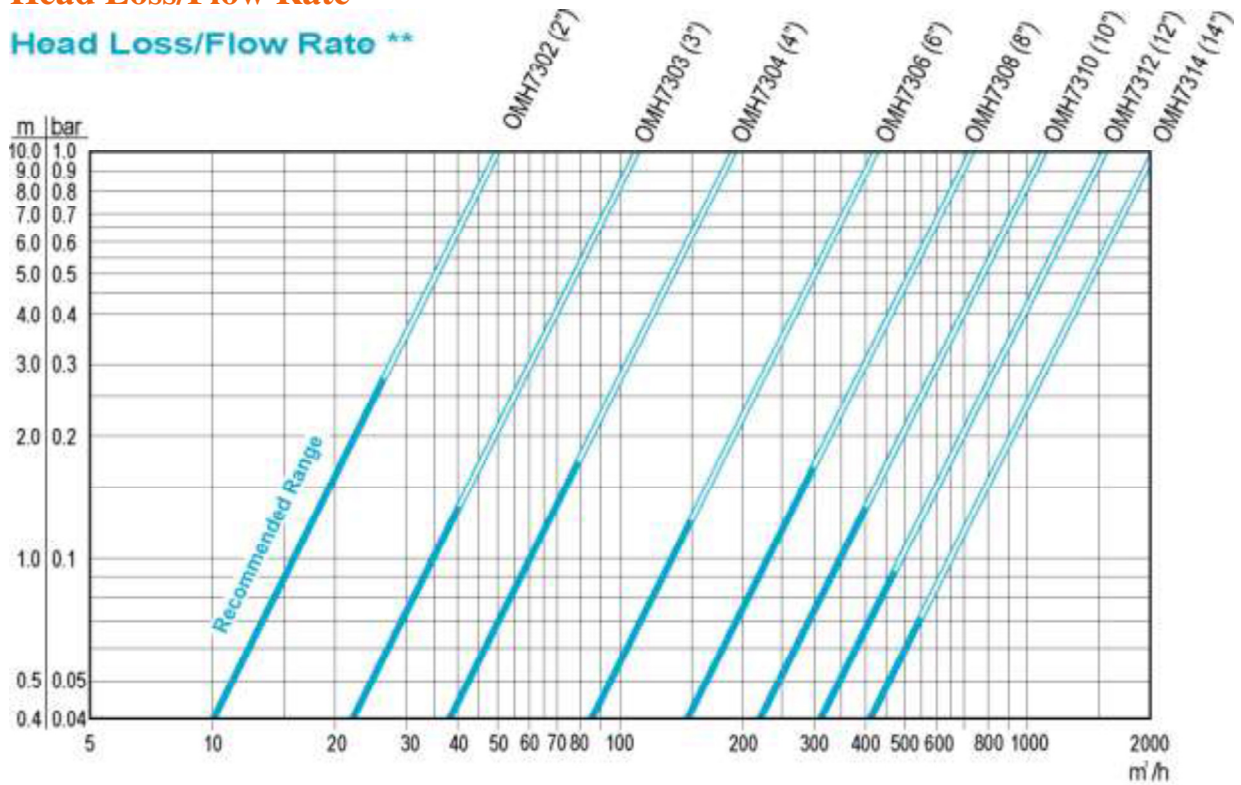
Dimensions & Weight U.S. Units

Model	B (inch)	D (inch)	A (inch)	H (inch)	E (inch)	L (inch)	L1 (inch)	Weight (lbs)
OMH7302	2"	12"	16.9	25	27	51	90	350
OMH7303	3"	12"	16.9	25	27	51	90	357
OMH7304	4"	12"	23.6	25	27	58	102	430
OMH7306	6"	12"	23.6	25	27	58	102	440
OMH7308	8"	16"	30.7	32	29	68	121	650
OMH7310	10"	16"	30.7	32	29	68	121	661
OMH7312	12"	16"	39	32	29	80	143	738
OMH7314	14"	16"	39	32	29	80	143	794



Head Loss/Flow Rate **

Head Loss/Flow Rate **



** For a clean filter and 120 micron screen
 ■ 1 bar=100 kPa=1.02 kg/cm²=10.2 m (W.C)=14.5 psi

Filtering Grades:

Mesh	500	300	200	150	120	100	80	50	40
Micron	30	50	80	100	120	150	200	300	400

- Coarse screen - Perforated cylinder (Series OMH72, OMH73 only).
- Fine screen - Multi layer stainless steel wire mesh sintered together.