



FILTRATION SYSTEMS

FILT-MASTER

Tecnichal catalogue

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General characteristics

General characteristics

Filtmaster

The system

The most efficient, versatile & profitable filtration tool.

- **Efficiency:** the application of the most advanced technology results in a higher level of filtration performance.
- **Versatility:** the wide modular capacity of its components allows its perfect use for any kind of water in both agricultural and industrial fields.
- **Profitability:** the design of its components optimizes the cleaning process with lower energetic costs.

Filtration elements

1. Discs



Polypropilene discs designed for keeping a regular filtration path along the double face grooved discs.

Available in 20, 25, 50, 100, 130 and 200 microns.

2. Screen

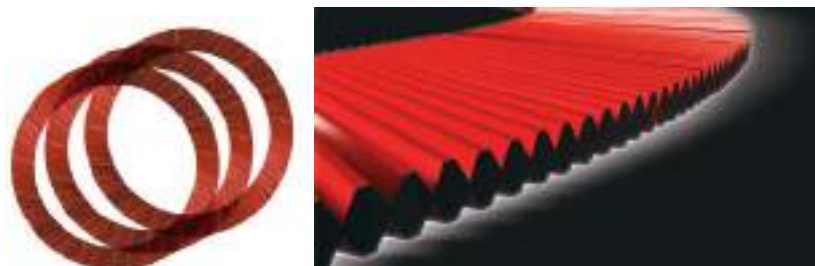


Available in 100 and 130 micron for low flow manual Filters.

Available in 100, 130 and 200 for big flow manual Filters.

The design of the JIMTEN disc guarantees a real filtration degree all through the filtration process.

- **Longer clogging time.**
- **Lower frequency of cleaning cycles.**
- **Lower head loss.**
- **Lower energy cost in pumping equipments.**

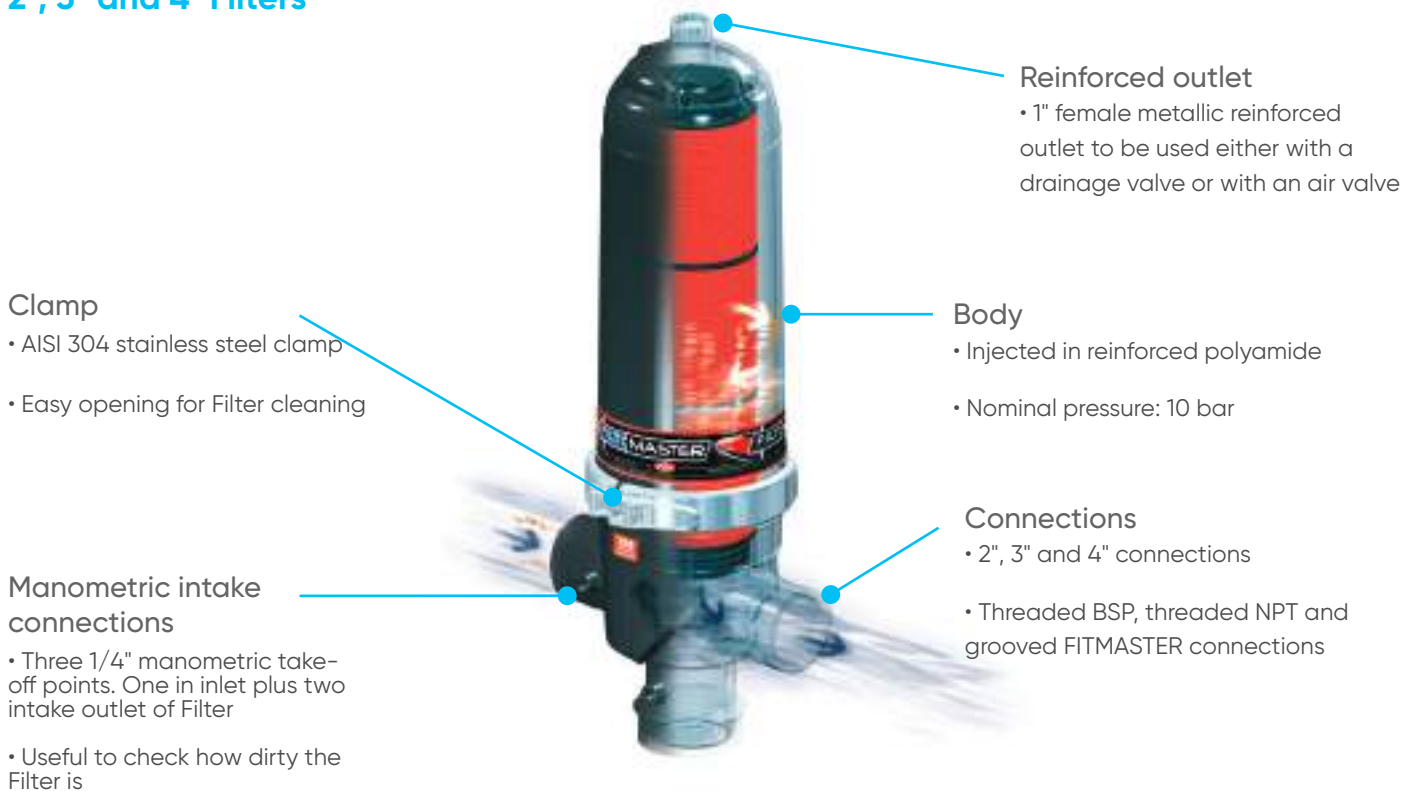


3/4", 1", 1 1/4" and 1 1/2" Filters

For low flow filtration (up to 15m³/h)



2", 3" and 4" Filters





Manual Filters

Manual Filters

3/4", 1", 1 1/4" and 1 1/2" Filters



Stainless steel screen Filter

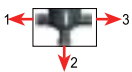
X-345 Blue 100 mi- crons	X-346 Red 130 microns				
Code	Code	Size	Connection	Q/	n°
091052	091060	3/4"	BSP	10	A-11
091053	091061	1"	BSP	10	A-11
091054	091062	1 1/4"	BSP	5	A-9
091055	091063	1 1/2"	BSP	5	A-9
091056	091064	3/4"	NPT	10	A-11
091057	091065	1"	NPT	10	A-11
091058	091066	1 1/4"	NPT	5	A-9



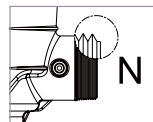
Disc Filter

X-347 Blue 100 mi- crons	X-348 Red 130 microns				
Code	Code	Size	Connection	Q/	n°
091068	091076	3/4"	BSP	10	A-11
091069	091077	1"	BSP	10	A-11
091070	091078	1 1/4"	BSP	5	A-9
091071	091079	1 1/2"	BSP	5	A-9
091072	091080	3/4"	NPT	10	A-11
091073	091081	1"	NPT	10	A-11
091074	091082	1 1/4"	NPT	5	A-9
091075	091083	1 1/2"	NPT	5	A-9

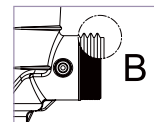
Connection



Grooved connection.



NPT thread.



BSP thread.

Manual Filters with stainless steel clamp



2" screen Filter (S cartridge)

Violet 20 microns	Green 50 microns	X-206 Blue 100 microns	X-207 Red 130 microns	Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
-	-	097043	097050	-	BBB	1	4256
-	-	097044	097051	-	VVB	1	4256
-	-	097045	097052	-	VBV	1	4256
-	-	097046	097053	-	NNN	1	4256
-	-	097047	097054	-	VVN	1	4256
-	-	097048	097055	-	VNV	1	4256



2" long screen Filter (M cartridge)

Violet 20 microns	Green 50 microns	X-218 Blue 100 microns	X-219 Red 130 microns	X-220 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
-	-	097127	097134	097141	BBB	1	4140
-	-	097128	097135	097142	VVB	1	4140
-	-	097129	097136	097143	VBV	1	4140
-	-	097130	097137	097144	NNN	1	4140
-	-	097131	097138	097145	VVN	1	4140
-	-	097132	097139	097146	VNV	1	4140



3" screen Filter (M cartridge)

Violet 20 microns	Green 50 microns	X-242 Blue 100 microns	X-243 Red 130 microns	X-244 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
-	-	097295	097302	097309	BBB	1	4140
-	-	097296	097303	097310	VVB	1	4140
-	-	097297	097304	097311	VBV	1	4140
-	-	097298	097305	097312	NNN	1	4140
-	-	097299	097306	097313	VVN	1	4140
-	-	097300	097307	097314	VNV	1	4140

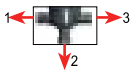
Hydrocyclonic manual Filters with stainless steel clamp



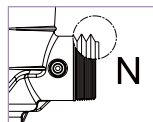
The hydrocyclonic crown forces the decantation of suspended solid particles in water towards the drainage outlet thanks to centrifugal action and gravity.

- The design of the hydrocyclonic crown is optimized to get the minimum head loss and optimal hydraulic performance.
- Hydrocyclonic Filters reduce the frequency of cleaning as they keep away the heaviest particles from discs.
- Assembled in automatic and manual backwash filtration stations.
- 1" female drainage outlet.

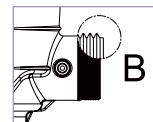
Connection



Grooved connection.



NPT thread.



BSP thread.



2" STD hydrocyclonic disc Filter

X-258 Violet 20 microns	X-259 Green 50 microns	X-260 Blue 100 microns	X-261 Red 130 microns	X-262 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Ql/⊠	n°⊠
097454	097475	097461	097468	097447	BBB	1	4256
097455	097476	097462	097469	097448	VVB	1	4256
097456	097477	097463	097470	097449	VBV	1	4256
097457	097478	097464	097471	097450	NNN	1	4256
097458	097479	097465	097472	097451	VVN	1	4256
097459	097480	097466	097473	097452	VNV	1	4256



2" hydrocyclonic disc Filter

X-302 Violet 20 microns	X-250 Green 50 microns	X-248 Blue 100 microns	X-249 Red 130 microns	X-251 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Ql/⊠	n°⊠
097383	097369	097355	097362	097376	BBB	1	4140
097384	097370	097356	097363	097377	VVB	1	4140
097385	097371	097357	097364	097378	VBV	1	4140
097386	097372	097358	097365	097379	NNN	1	4140
097387	097373	097359	097366	097380	VVN	1	4140
097388	097374	097360	097367	097381	VNV	1	4140

Hydrocyclonic manual Filters with stainless steel clamp



2" long hydrocyclonic disc Filter

X-303 Violet 20 microns	X-256 Green 50 microns	X-254 Blue 100 microns	X-255 Red 130 microns	X-257 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097425	097411	097397	097404	097418	BBB	1	4139
097426	097412	097398	097405	097419	VVB	1	4139
097427	097413	097399	097406	097420	VBV	1	4139
097428	097414	097400	097407	097421	NNN	1	4139
097429	097415	097401	097408	097422	VVN	1	4139
097430	097416	097402	097409	097423	VNV	1	4139



3" hydrocyclonic disc Filter

X-304 Violet 20 microns	X-268 Green 50 microns	X-266 Blue 100 microns	X-267 Red 130 microns	X-269 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097509	097495	097481	097488	097502	BBB	1	4139
097510	097496	097482	097489	097503	VVB	1	4139
097511	097497	097483	097490	097504	VBV	1	4139
097512	097498	097484	097491	097505	NNN	1	4139
097513	097499	097485	097492	097506	VVN	1	4139
097514	097500	097486	097493	097507	VNV	1	4139

Hydrocyclonic double body manual Filters with stainless steel clamp



3" compact hydrocyclonic double body disc Filter

X-391 Violet 20 microns	X-392 Green 50 microns	X-393 Blue 100 microns	X-394 Red 130 microns	X-395 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097900	097901	097902	097903	097904	BB	1	4969
097905	097906	097907	097908	097909	VV	1	4969



4" compact hydrocyclonic double body disc Filter

X-396 Violet 20 microns	X-397 Green 50 microns	X-398 Blue 100 microns	X-399 Red 130 microns	X-400 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097910	097911	097912	097913	097914	BB	1	4969
097915	097916	097917	097918	097919	VV	1	4969

Hydrocyclonic manual Filters with PAFV clamp



- Adjustable clamp for opening or closing without using any tool.
- Reinforced design that guarantees working pressure up to PN10. Made in resistant material to UV rays. Suitable for C4 atmospheric corrosion environments.
- With anti-vandal safety ring.
- Thanks to its modular conception, this clamp can be assembled in any Filter of our FILTMASTER range.



*PAFV (Polyamide reinforced with glassfiber).



2" STD hydrocyclonic disc Filter

X-421 Violet 20 microns	X-422 Green 50 microns	X-423 Blue 100 microns	X-424 Red 130 microns	X-425 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097990	097991	097992	097993	097994	BBB	1	4256



2" hydrocyclonic disc Filter

X-431 Violet 20 microns	X-432 Green 50 microns	X-433 Blue 100 microns	X-434 Red 130 microns	X-435 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097190	097191	097192	097193	097194	BBB	1	4140



2" long hydrocyclonic disc Filter

X-436 Violet 20 microns	X-437 Green 50 microns	X-438 Blue 100 microns	X-439 Red 130 microns	X-440 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097195	097196	097197	097198	097199	BBB	1	4139

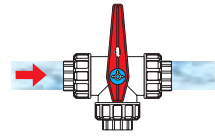


3" hydrocyclonic disc Filter

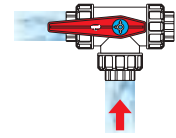
X-426 Violet 20 microns	X-427 Green 50 microns	X-428 Blue 100 microns	X-429 Red 130 microns	X-430 Yellow 200 microns			
Code	Code	Code	Code	Code	Connection	Q/	n°
097995	097996	097997	097998	097999	BBB	1	4139



2" manual backwash filtration stations



Backwash



Filtration

2" manual backwash filtration stations (HDPE manifolds).

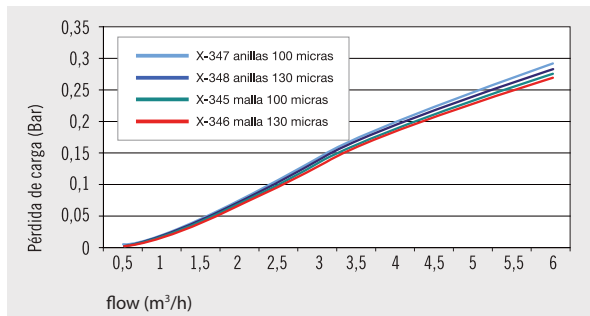
Violet 20 microns	Green 50 microns	Blue 100 microns	Red 130 microns	Yellow 200 microns	
Code	Code	Code	Code	Code	Nº Filters
298965	298970	298975	298980	298985	2
298966	298971	298976	298981	298986	3
298967	298972	298977	298982	298987	4
298968	298973	298978	298983	298988	5
298969	298974	298979	298984	298989	6

* 1" triple effect air valves included.

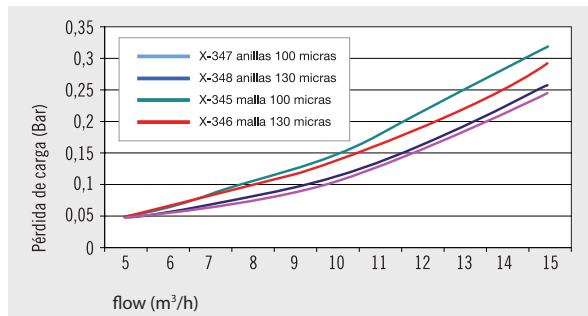
* Hydrocyclonic manual disc cartridges included.

Manual Filters head loss charts

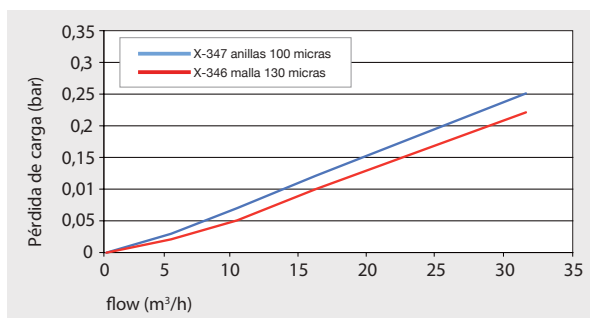
3/4" - 1"



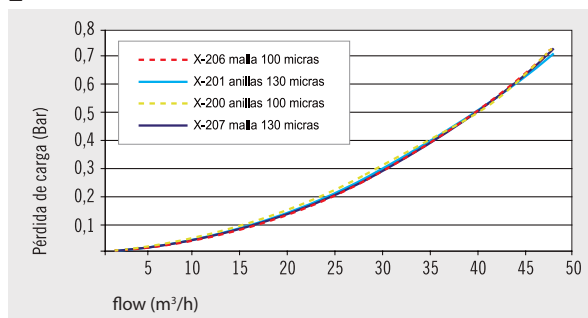
1 1/4" - 1 1/2"



2" STD

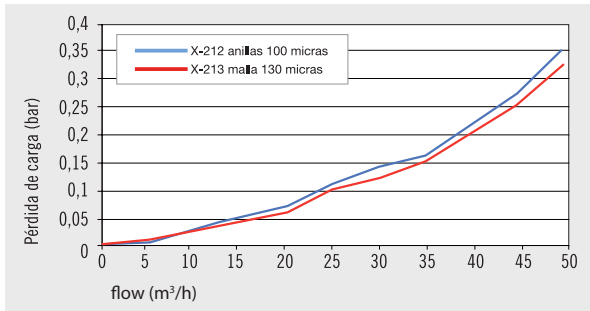


2"

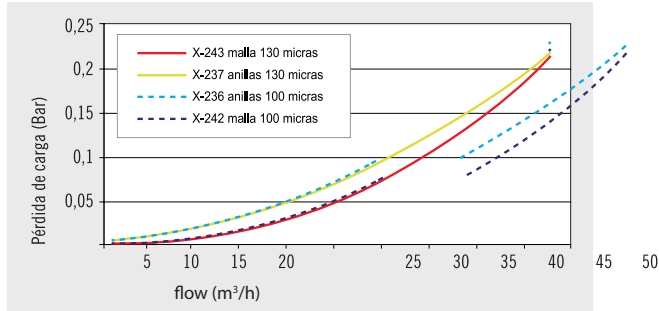


Pérdidas de carga Filters manuales

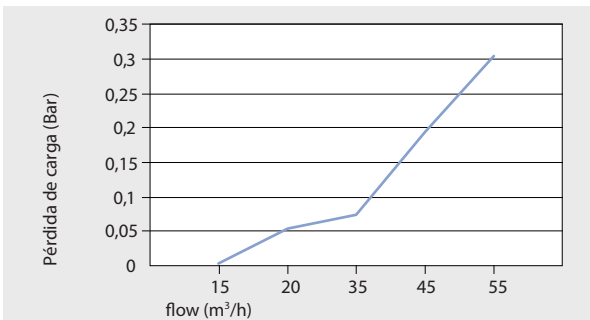
2" long



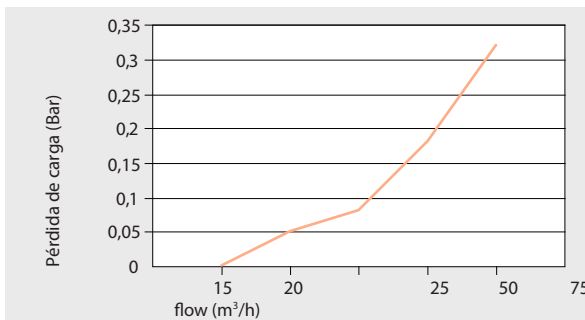
3"



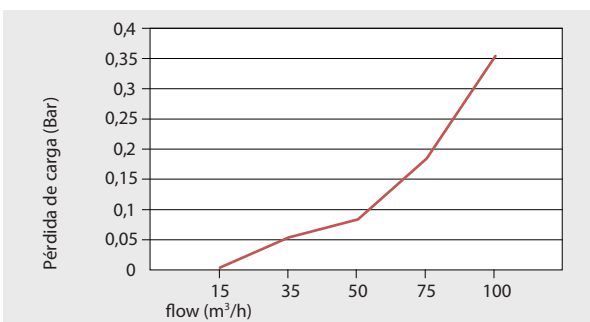
3" double supercompact



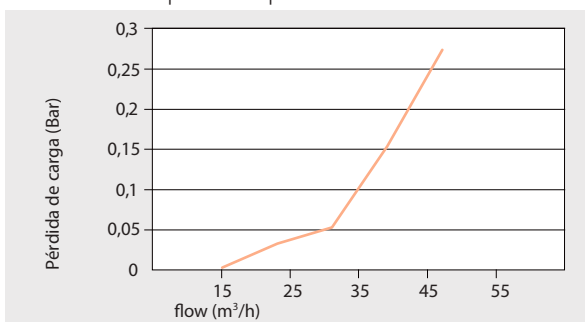
3" double compact



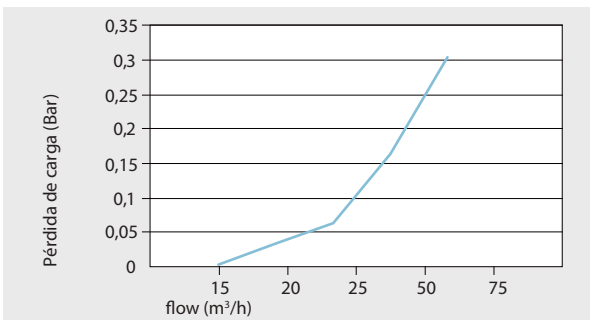
3" double



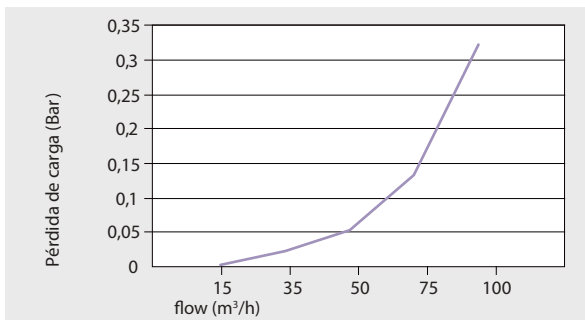
4" double supercompact



4" double compact



4" double





Automatic Filters

Automatic Filters

Working principles

In filtration position

1. The piston compresses the disc cartridge.
2. The conical flexible non-return membrane remains open, allowing Filtered water to go to the network.





In cleaning position

1. The backwash valve inverts clean water flow into the Filter, closing the conical flexible non-return membrane. This forces clean water through the three spine manifolds that spray out tangentially the dirtiness from the discs.
2. At the same time, the upper piston is compressed by incoming pressure through the spine manifolds, releasing the discs that spin in a centrifugal movement at high speed.







2" automatic disc Filter

X-273 Red 130 microns			
Code	Connection	Q/ 	n° 
098508	BBB	1	4139
098509	VVB	1	4139
098510	VBV	1	4139
098511	NNN	1	4139
098512	VVN	1	4139
098513	VNV	1	4139



3" automatic disc Filter

X-279 Red 130 microns			
Code	Connection	Q/ 	n° 
098550	BBB	1	4139
098551	VVB	1	4139
098552	VBV	1	4139
098553	NNN	1	4139
098554	VVN	1	4139
098555	VNV	1	4139





3" double body automatic disc Filter

X-322 Red 130 microns			
Code	Connection	Q/ 	n° 
098822	VV	1	4163



4" double body automatic disc Filter

X-327 Red 130 microns			
Code	Connection	Q/ 	n° 
098827	VV	1	4163

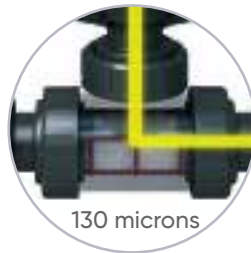
Automatic filtration stations

2" MasterONE automatic filtration station

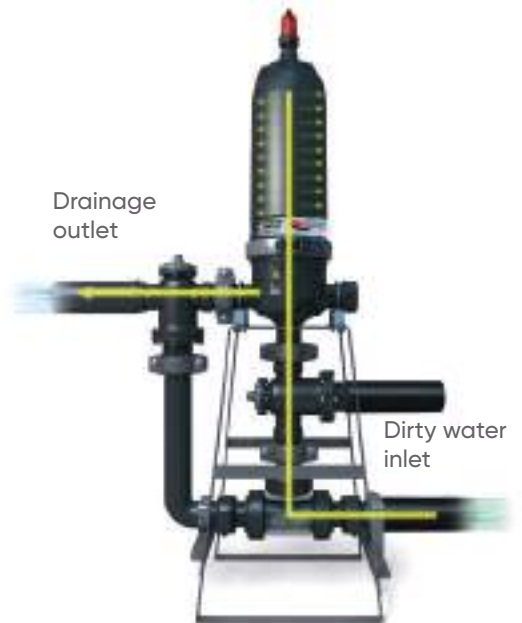
FILTRATION



During filtration the MasterONE unit works like a standard disc Filter. Incoming water goes along the lower T cleaning the screen cartridge.



CLEANING



During the cleaning stage the MasterONE unit works by reversing the flow which goes through the screen in the T, providing clean water. The process continues with the high speed centrifugal release of the discs in the cartridge. To guarantee the backwash, the MasterONE requires a minimum inlet pressure of 2,5 bar.

Range



With support inox Without support inox

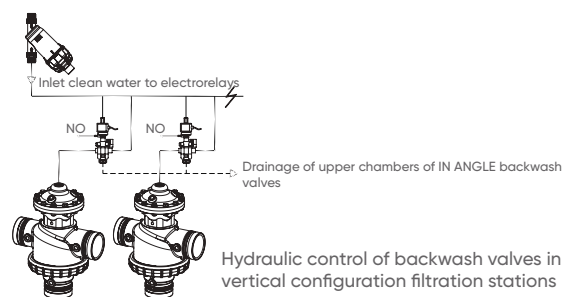
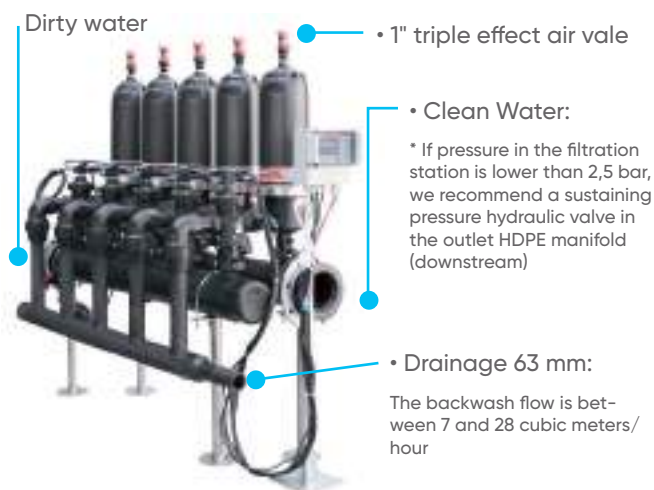


2" MasterONE automatic filtration station

	Celeste 25 microns	Green 50 microns	Blue 100 microns	Red 130 microns	Yellow 200 microns	
	Code	Code	Code	Code	Code	n° Filters
With support	098956	098957	098958	098959	098960	1
Without support	098951	098952	098953	098950	098954	1

Single body automatic filtration stations

Installation recommendations



Single body automatic filtration stations (vertical configuration)



2" single body automatic filtration stations

Celeste 25 microns	Green 50 microns	Blue 100 microns	Red 130 microns	Yellow 200 microns		
Code	Code	Code	Code	Code	n° Filters	m³/h max.
P0030198620	P0030198600	P0030198605	P0030198610	P0030198615	2	66
P0030198621	P0030198601	P0030198606	P0030198611	P0030198616	3	98
P0030198622	P0030198602	P0030198607	P0030198612	P0030198617	4	131
P0030198623	P0030198603	P0030198608	P0030198613	P0030198618	5	164
P0030198624	P0030198604	P0030198609	P0030198614	P0030198619	6	197



3" single body automatic filtration stations

Celeste 25 microns	Green 50 microns	Blue 100 microns	Red 130 microns	Yellow 200 microns		
Code	Code	Code	Code	Code	n° Filters	m³/h max.
P0030198806	P0030198625	P0030198630	P0030198635	P0030198640	2	75
P0030198807	P0030198626	P0030198631	P0030198636	P0030198641	3	113
P0030198808	P0030198627	P0030198632	P0030198637	P0030198642	4	151
P0030198809	P0030198628	P0030198633	P0030198638	P0030198643	5	188
P0030198810	P0030198629	P0030198634	P0030198639	P0030198644	6	226
			P0030198920		8	301
			P0030198922		10	377

Double body automatic filtration stations

Installation recommendations

- 1" triple effect air valve
- Clean water:
* If pressure in the filtration station is lower than 2,5 bar, we recommend a sustaining pressure hydraulic valve in the outlet HDPE manifold (downstream)
- Dirty water
- Drainage 63 mm:
The backwash flow is between 7 and 28 cubic meters/hour

Hydraulic control of backwash valves in vertical configuration filtration stations

Double body automatic filtration stations (vertical configuration)



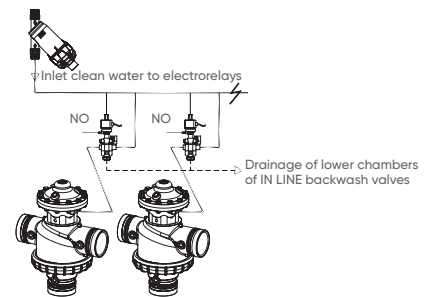
3" double body automatic filtration stations

Celeste 25 microns	Green 50 microns	Blue 100 microns	Red 130 microns	Yellow 200 microns		
Code	Code	Code	Code	Code	n° Filters	m³/h max.
098829	098830	098831	098832	098833	3	226
098834	098835	098836	098837	098838	4	301
098839	098840	098841	098842	098843	5	377
098844	098845	098846	098847	098848	6	452
098849	098850	098851	098852	098853	8 in parallel	603
098854	098855	098856	098857	098858	10 in parallel	753

Double body automatic filtration stations (horizontal configuration)

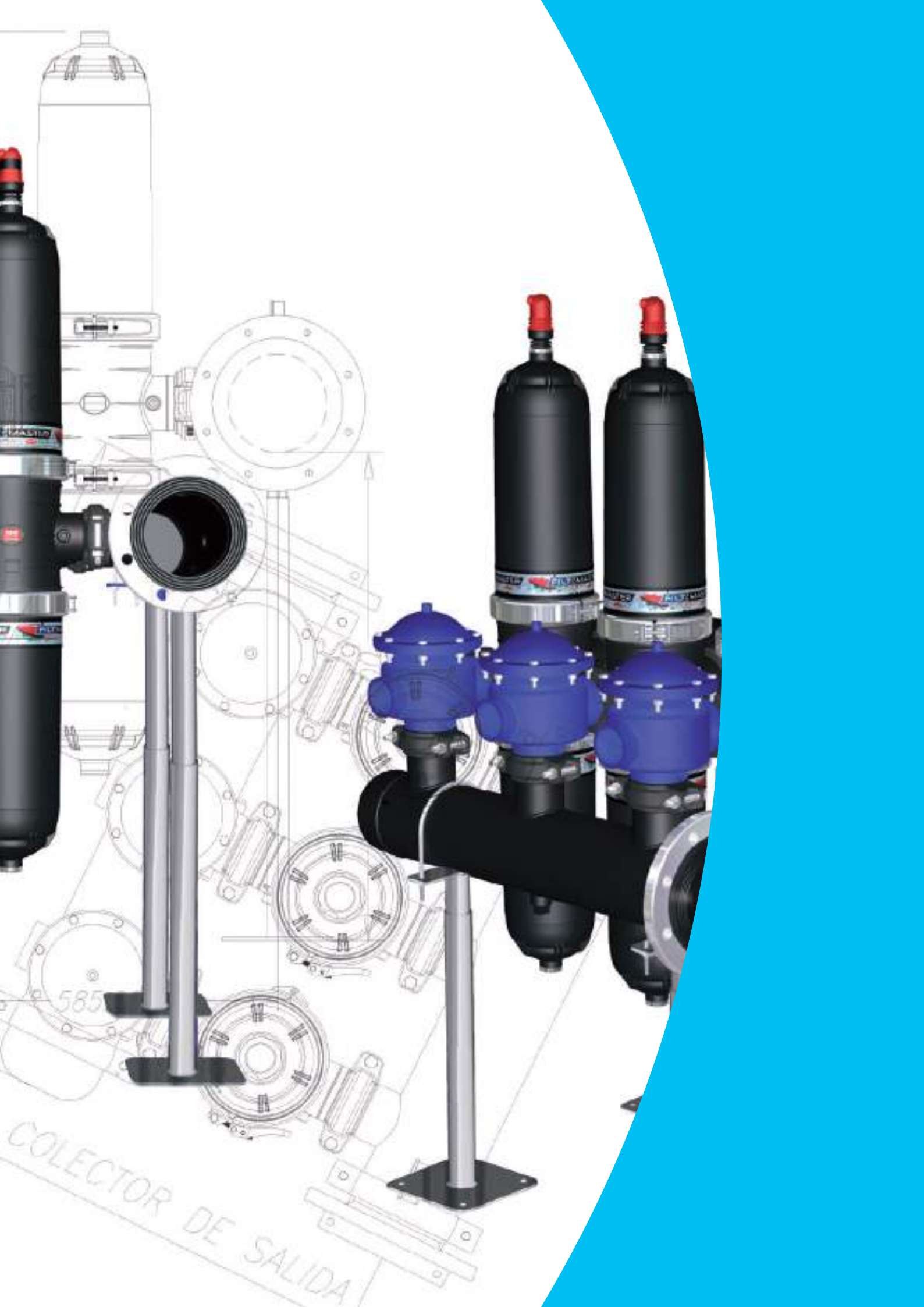


Hydraulic control of backwash valves in horizontal configuration filtration stations



3" double body automatic filtration stations

Celeste 25 microns	Green 50 microns	Blue 100 microns	Red 130 microns	Yellow 200 microns		
Code	Code	Code	Code	Code	n° Filters	m³/h max.
P0030198925	P0030198926	P0030198927	P0030198928	P0030198929	3	226
P0030198930	P0030198931	P0030198932	P0030198933	P0030198934	4	301
P0030198935	P0030198936	P0030198937	P0030198938	P0030198939	5	377
P0030198940	P0030198941	P0030198942	P0030198943	P0030198944	6	452
P0030198945	P0030198946	P0030198947	P0030198948	P0030198949	8	603



COLECTOR DE SALIDA

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Installation guide and applications

Installation guide and applications

Installation guide

To install a FILTMASTER filtration unit it is necessary to:

1. Install the filtration station on a flat, levelled and considerably covered surface.
2. Handle the filtration station carefully when removing the protective film, since the hydraulic command elements could be broken.
3. If any Filter was displaced during the transport, you can place it again in the right position by loosening the FITMASTER connections.
4. Before the installation, check the following requirements:
 - Dimensioning: According to the net flow and water quality.
 - Minimum backwash pressure: 2,5 bar.
 - Minimum filtration pressure: 1 bar.
 - Minimum backwash flow: 8 m³/h for 2" backwash valves and 12 m³/h for 3" backwash valves.

External elements

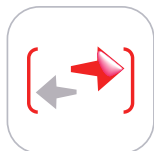
We recommend checking all external elements to the Filtering station before the installation.



Pay attention to the electric generators because they can cause problems due to volatile tension. They could damage easily the electrical components of the filtration station.



Please ensure no vibrations coming from the engine are transmitted onto the Filter.



Check that space is enough for future maintenance.



The hydraulic command drainage outlet must be free. We recommend that they are visible to verify their performance.

Hydraulic connections

Dirty water

No automatic hydraulic control valve should be installed at the entrance of the automatic filtration station because it could affect to working pressure conditions. If needed, we recommend installing a manual control valve.



Clean water

We recommend the installation of a manual control valve in the outlet of the filtration station to make maintenance easier.



Drainage

Drainage water coming out from the backwash hydraulic valves is collected in a common HDPE manifold.

The drainage must be at height 0. If installation requires a higher level, then the difference in meters translated to pressure units must be added to the minimum recommended backwash pressure (2,5 bar).

How to order a FILTMASTER filtration station

According to the characteristics in your installation, it will be necessary to correctly dimension the unit as per flow rate, working pressure, quality of the water (please check chart at pages 51-52) and voltage.

Next to these lines we offer you a quick guide to help you choose the right coderecence number according to the various options available on filtration stations.

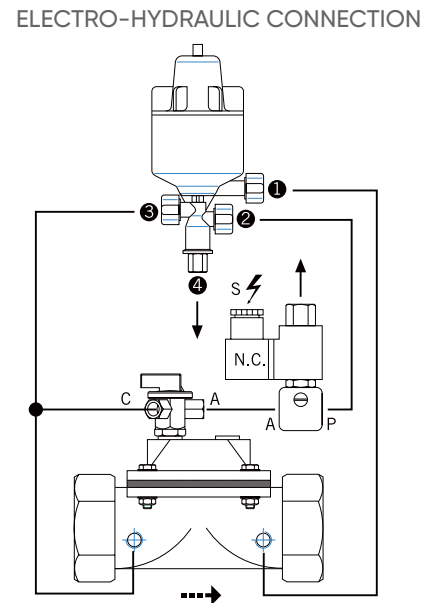
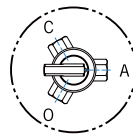
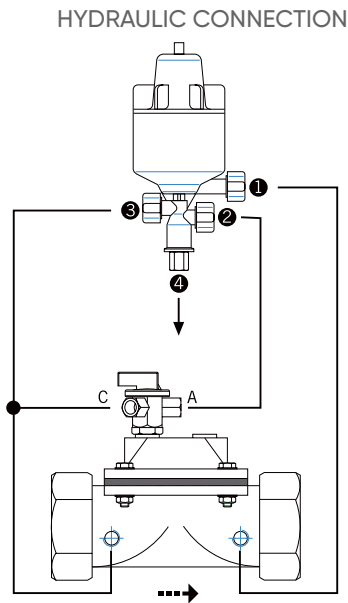
Please contact with our filtration techical department for any advice needed on dimensioning and selection of a filtration unit.

Controller	Drainage manifold	9VDC solenoid	24VAC solenoid	Basic filtration station
P00=sin Prog.	3=Si; 0=No	2=Si; 0=No	1=Si; 0=No	
P00	3	0	1	98888
P24	3	0	1	98888
P09	3	2	0	98888
BAP60	3	0	1	98888
BAP00	3	0	1	98888

* BAP60 = 110V/60Hz controller / (ANSI flange)

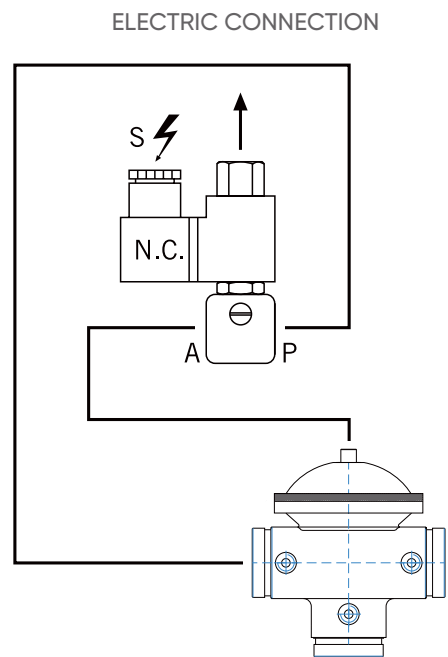
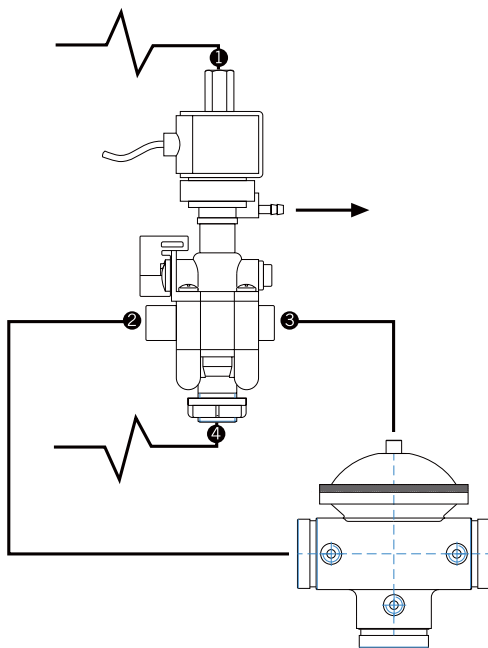
* BAP00 = no controller / (ANSI flange)

Hydraulic sustaining pressure valve connection



If pressure in the Filtering station is lower than 2,5 bar, we recommend the installation of a sustaining pressure hydraulic valve in the outlet HDPE manifold (downstream).

Backwash hydraulic valve connection



Applications: Water Treatment in Industry

Water Treatment Industry: Case 1



Problem

Water used in sectors such as desalination, chemical, metal, textile or plastic industries needs a filtration of macro and micro particles prior to ultrafiltration, ultraviolet or reverse osmosis treatments in order to protect nozzles, membranes and heat exchangers.

Solution

Installation of a 50 micron FILMASTER automatic filtration station or sequential micron decrease from 200 to 100 and finally to 50 microns.

Water Treatment Industry: Case 2



Problem

In the natural stone industry water contains mineral particles of important grading, this water is decanted and circulates again but this method is not effective enough as some suspended particles persist causing obstruction and wear of some pumping components.

Solution

Installation of a battery of 5 FILMASTER 200 micron manual Filters (80 m³/h).

Water Treatment Industry: Case 3



Problem

Protection of codeigeration systems. Water used in order to protect the codeigeration element sand keeping the working conditions without any alteration that may affect the final product uniformity.

Solution

Installation of a sequential 200 and 100 micron bypassed FILMASTER filtration station.

Applications: Irrigation of green areas



Problem

The companies responsible for the maintenance of green areas and gardens face continuous problems with sprinkling systems when they get water from phreatic sources with high concentration of mineral particles that clog nozzles.

Solution

Installation of an automatic 2" FILMASTER filtration station for 40 m³/h.

Applications: Golf courses



Problem

Normally in residential areas with golf course the water used come from ponds mixed with residual treated water. This water is the same used for the irrigation system of garden areas and holes. This water contains filamentous seaweed and high level of organic matter blocking the irrigation and spinkler systems.

Solution

Installation of 130 micron FILMASTER automatic filtration stations for drip or sprinkler irrigation.



Applications: Spas



Problem

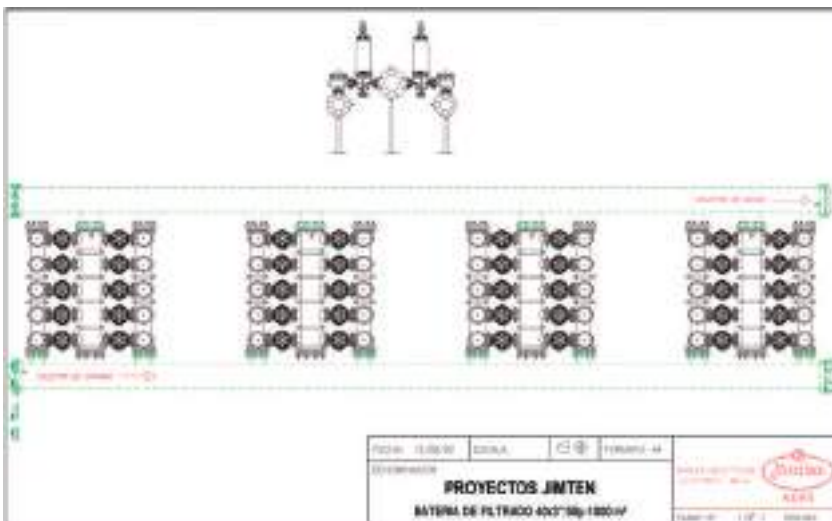
Most of the hydrotherapy installations do not comply with the minimum requirements as far as the water quality is concerned (total quantity of suspended solid).

Solution

Installation of 50/25 micron FILTMATER automatic filtration stations.



Projects



Jimten offers you a technical assistance service for the installation of FILTMATER automatic filtration stations for any kind of water and flow.

Contact us at +34 965109044 and will answer your questions as soon as possible.



FILT MASTER

ANGULAR FILTER FILTER F4-126-ATM
1/2" x 1/2" 200-µm HIGH PERFORMANCE FEATURES



Dimensions and Filter selection

Dimensions

Filters 3/4", 1", 1 1/4" y 1 1/2"



Roscas BSP

((dimensions in mm))

Size	A	B	C	D	E	R1 - R2	R3	R4
3/4"	194,5	160	231	78	152	3/4" BSP	1/2" BSP	1/4"
1"	195,5	160	234	78	152	1" BSP	1/2" BSP	1/4"
1 1/4"	265	243	311	108,5	210	1 1/4" BSP	3/4" BSP	1/4"
1 1/2"	265	243	314	108,5	210	1 1/2" BSP	3/4" BSP	1/4"

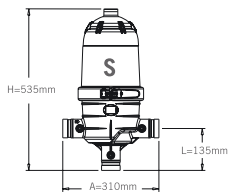
Roscas NPT

((dimensions in mm))

Size	A	B	C	D	E	R1 - R2	R3	R4
3/4"	197,5	164	233	78	152	3/4" NPT	1/2" NPT	1/4"
1"	202	174	239	78	152	1" NPT	1/2" NPT	1/4"
1 1/4"	267	246	312	108,5	210	1 1/4" NPT	3/4" NPT	1/4"
1 1/2"	267	246	314	108,5	210	1 1/2" NPT	3/4" NPT	1/4"

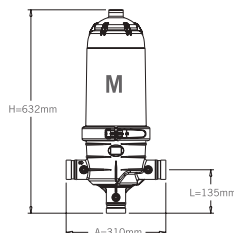
2" STD disc and 2" screen filter

4256



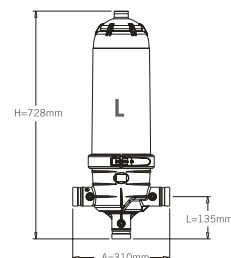
2" disc and 2" long screen filter

4140



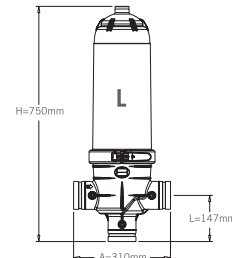
2" long disc filter

4139



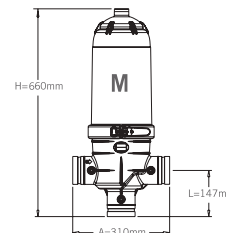
3" disc filter

4139



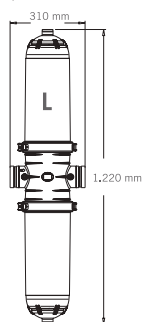
3" screen filter

4140



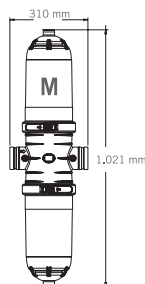
3" Double body

4163



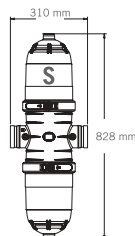
3" double body compact

4969



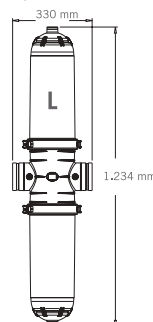
3" double body super compact

4969



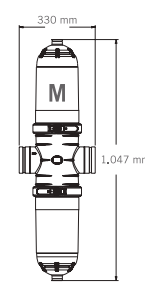
4" Double body

4163



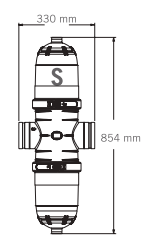
4" double body compact

4969

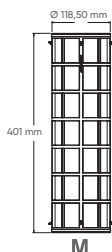


4" double body super compact

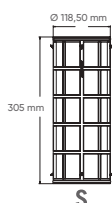
4969



3" , 2" long and 2" screen cartridge

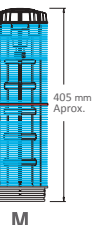
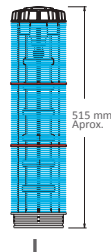


M

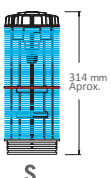


S

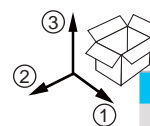
3", 2" L, 2" and 2" STD disc cartridge



M



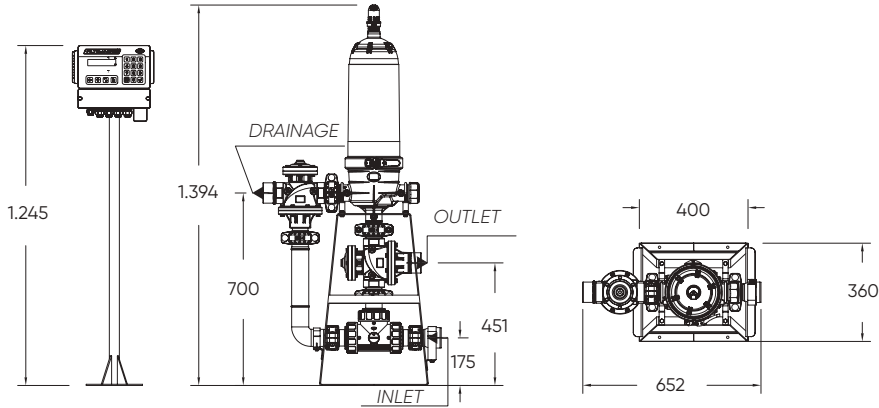
S



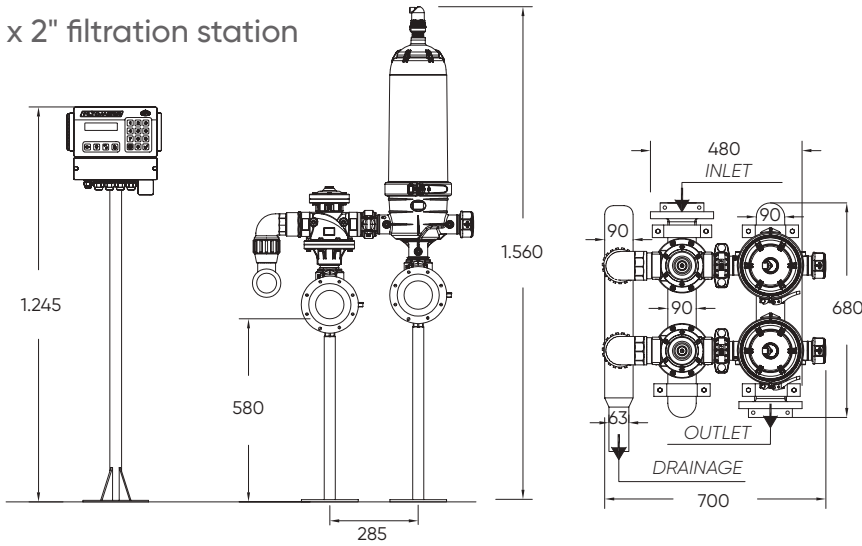
Code	1 (cm)	2 (cm)	3 (cm)
4139	32	24,5	77,5
4140	31	24,5	66,5
4163	26	35	127
4256	24,5	27,5	56,5
4969	33	25	105

2" single body automatic filtration stations. Dimensions

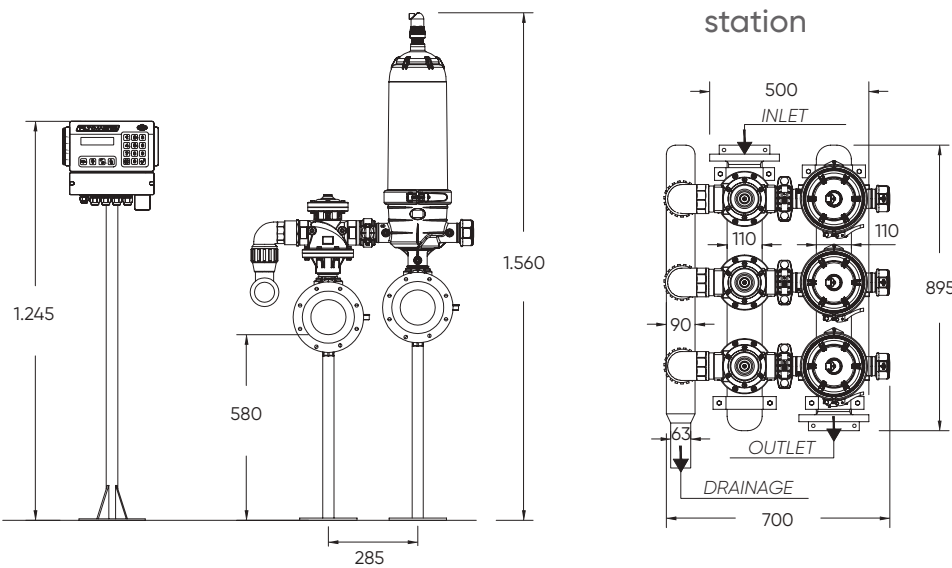
1 x 2" MasterONE filtration station



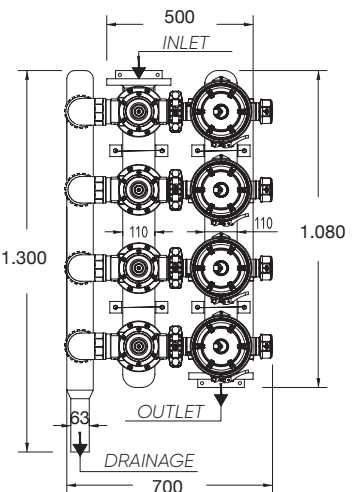
2 x 2" filtration station



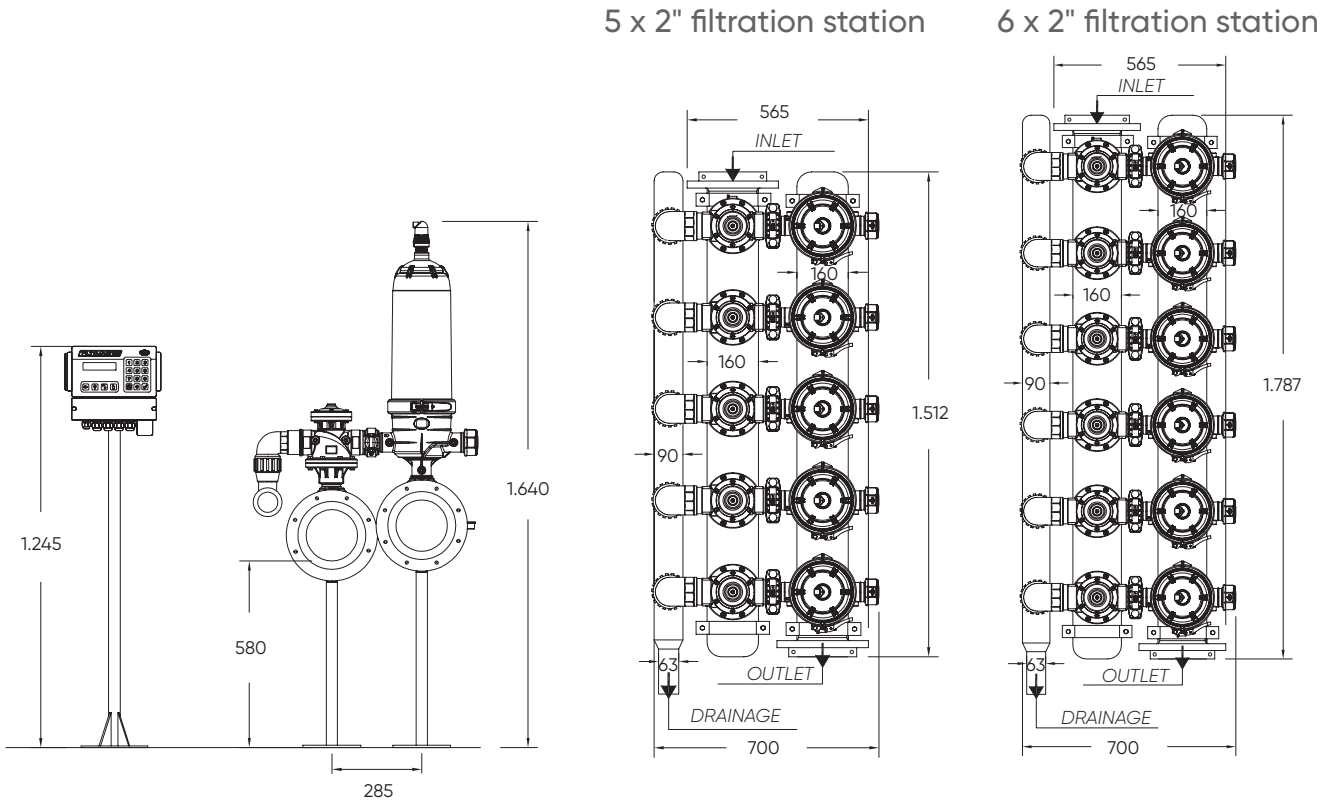
3 x 2" filtration station



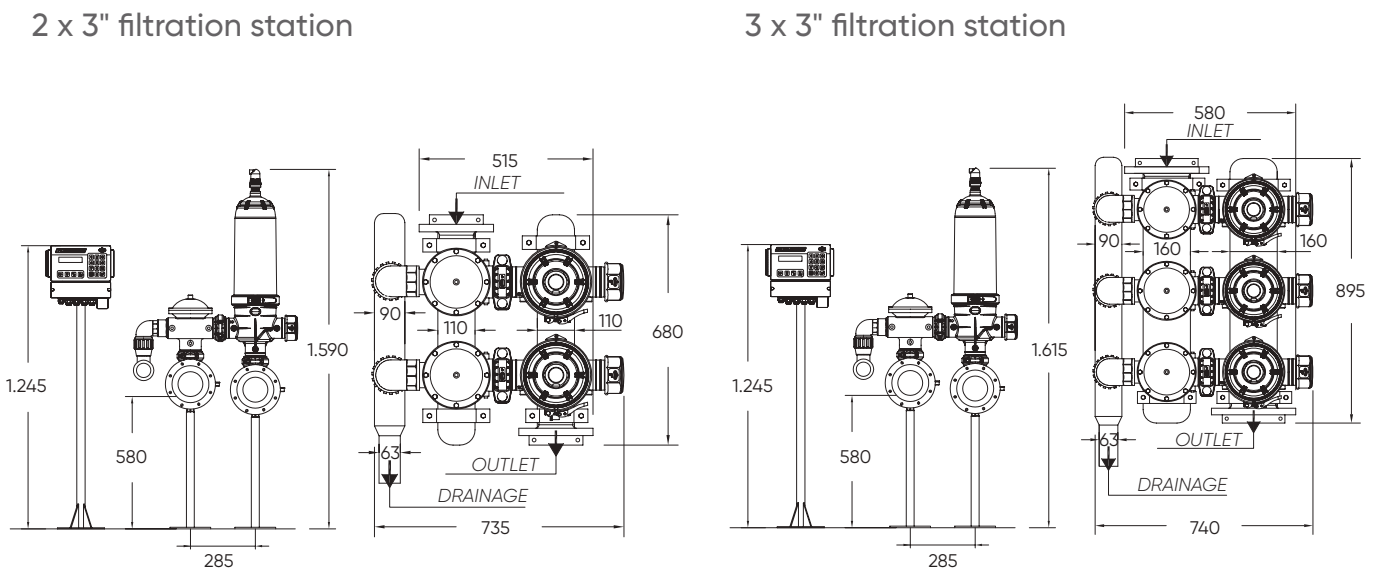
4 x 2" filtration station



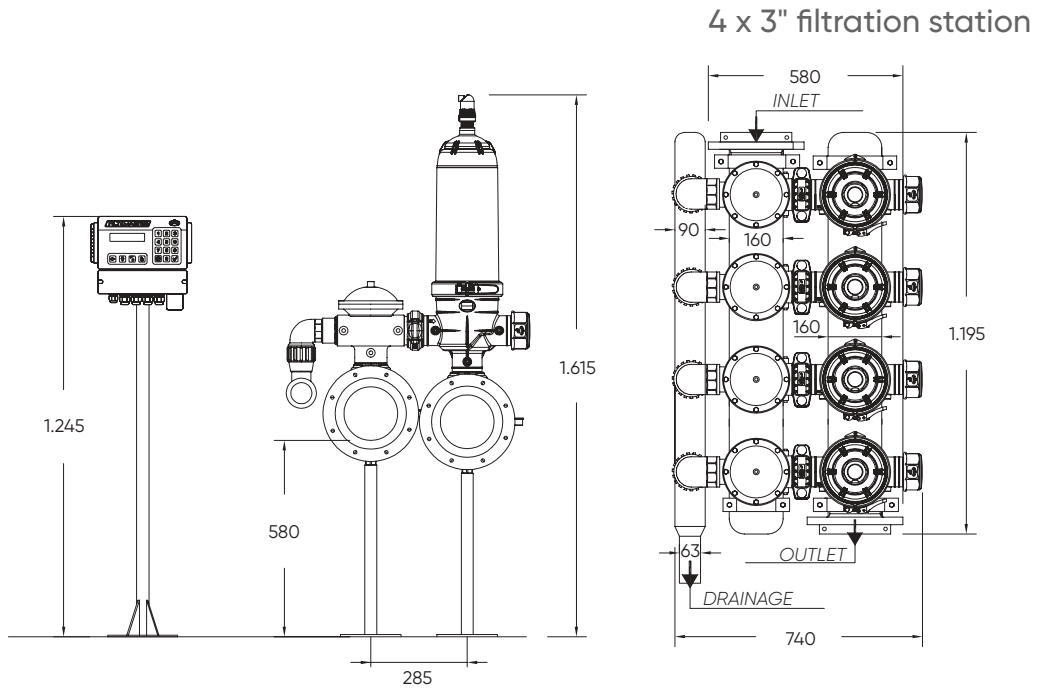
2" single body automatic filtration stations. Dimensions



3" single body automatic filtration stations. Dimensions

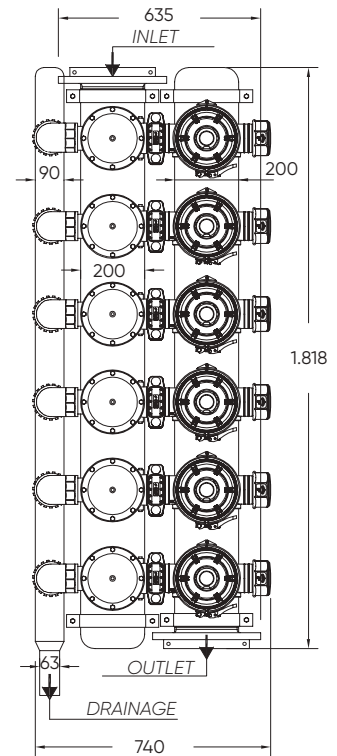
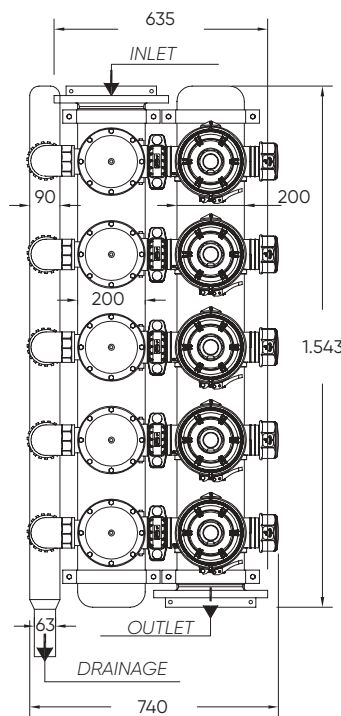
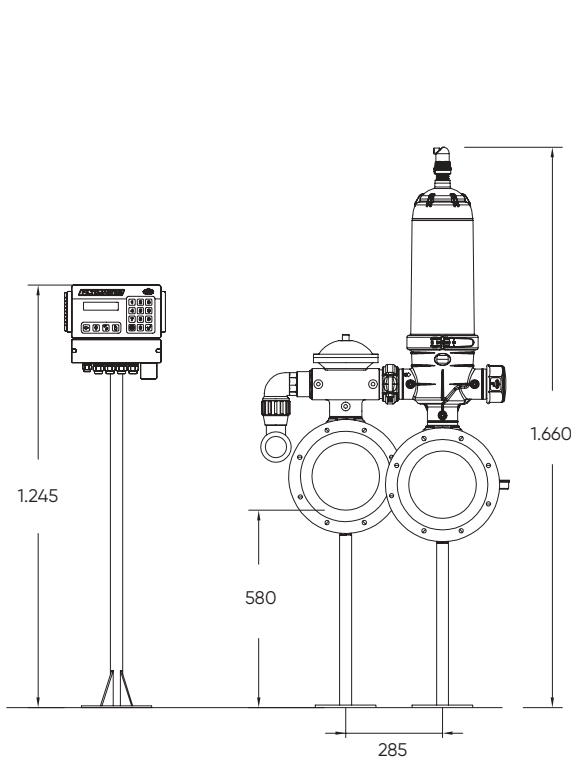


3" single body automatic filtration stations. Dimensions



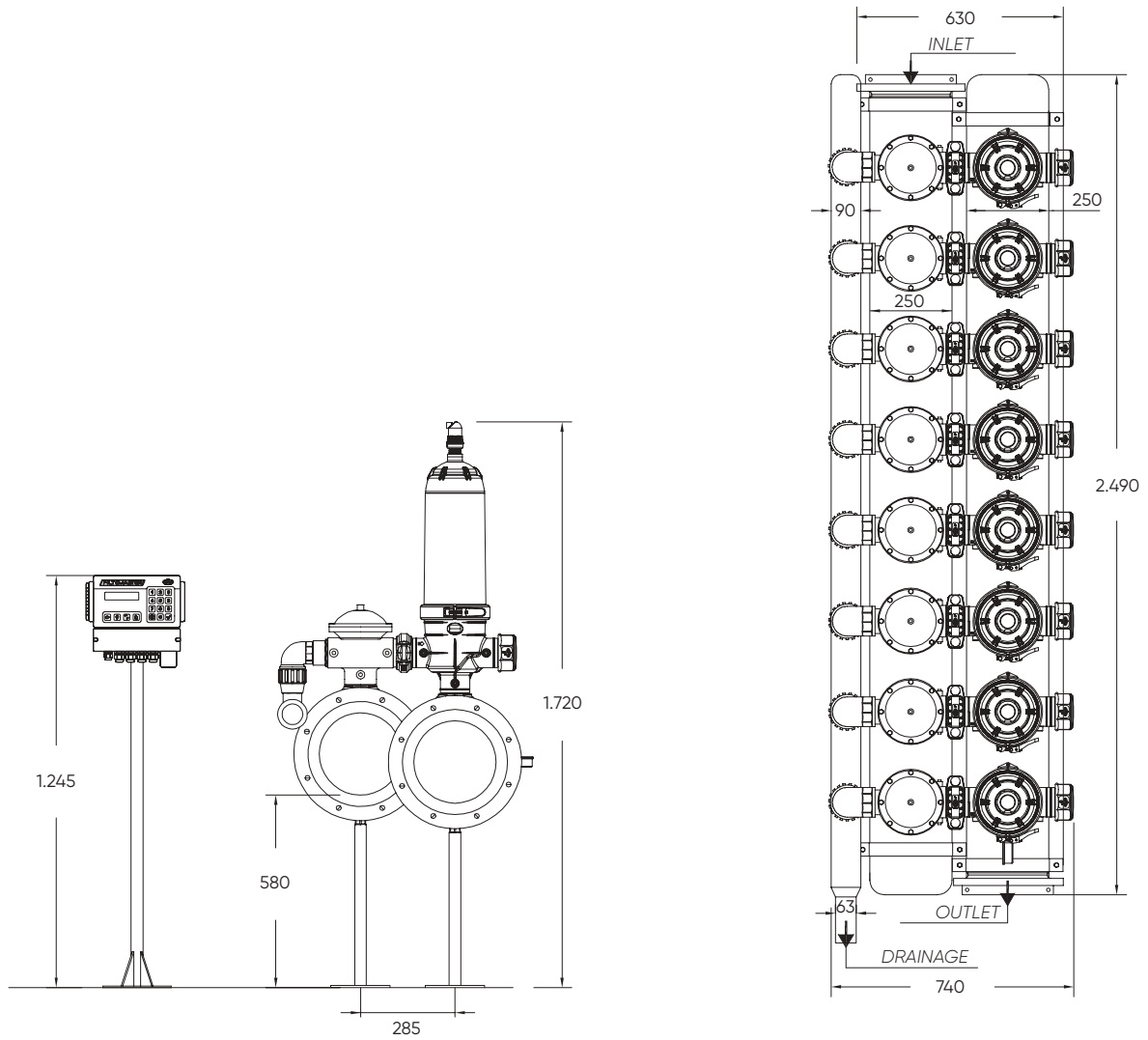
5 x 3" filtration station

6 x 3" filtration station



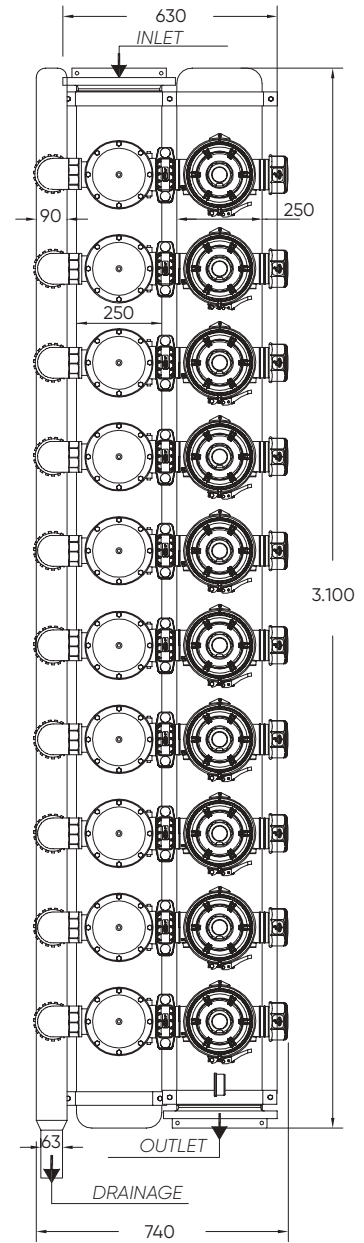
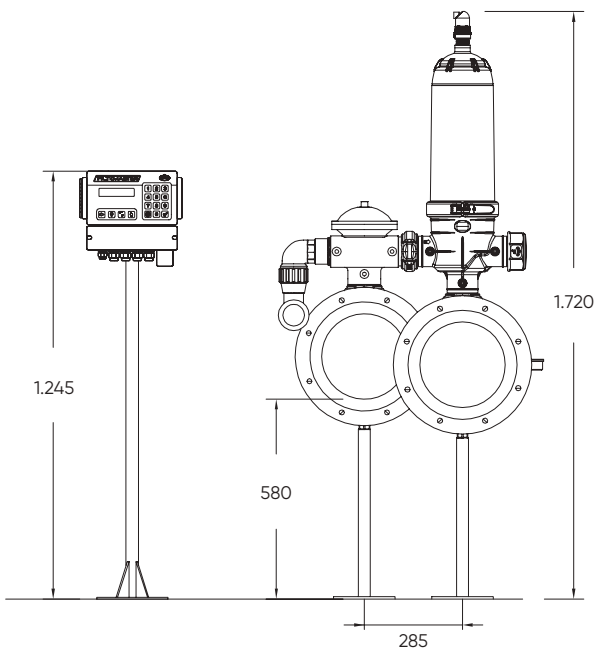
3" single body automatic filtration stations. Dimensions

8 x 3" in line filtration station

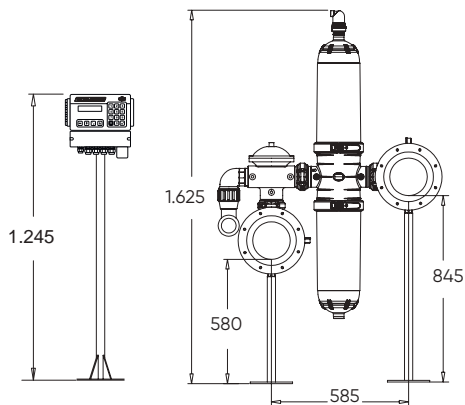


3" single body automatic filtration stations. Dimensions

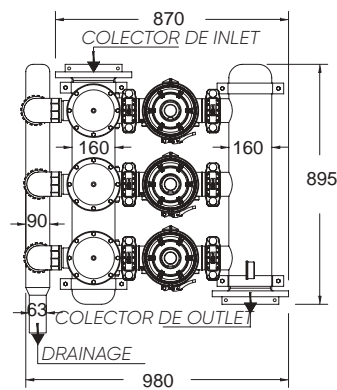
10 x 3" in line filtration station



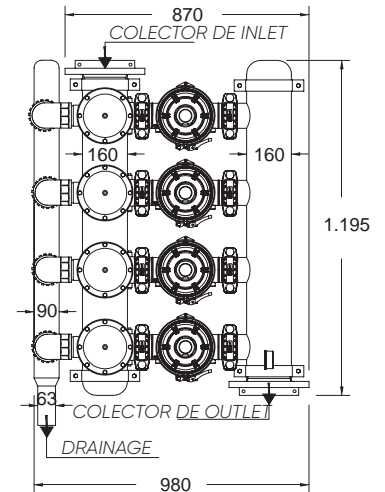
3" double body automatic filtration stations (vertical configuration). Dimensions



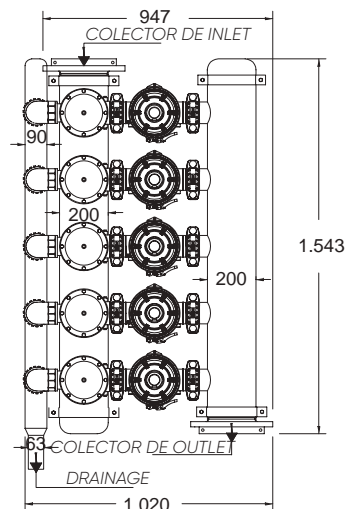
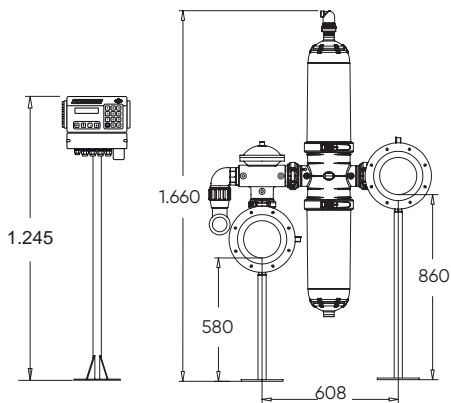
3 x 3" double body filtration station



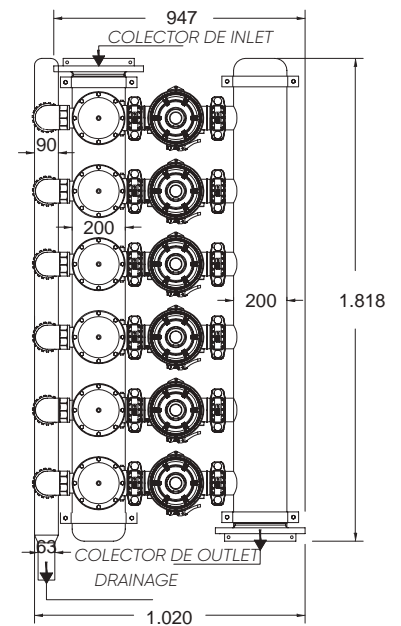
4 x 3" double body filtration station



5 x 3" double body filtration station

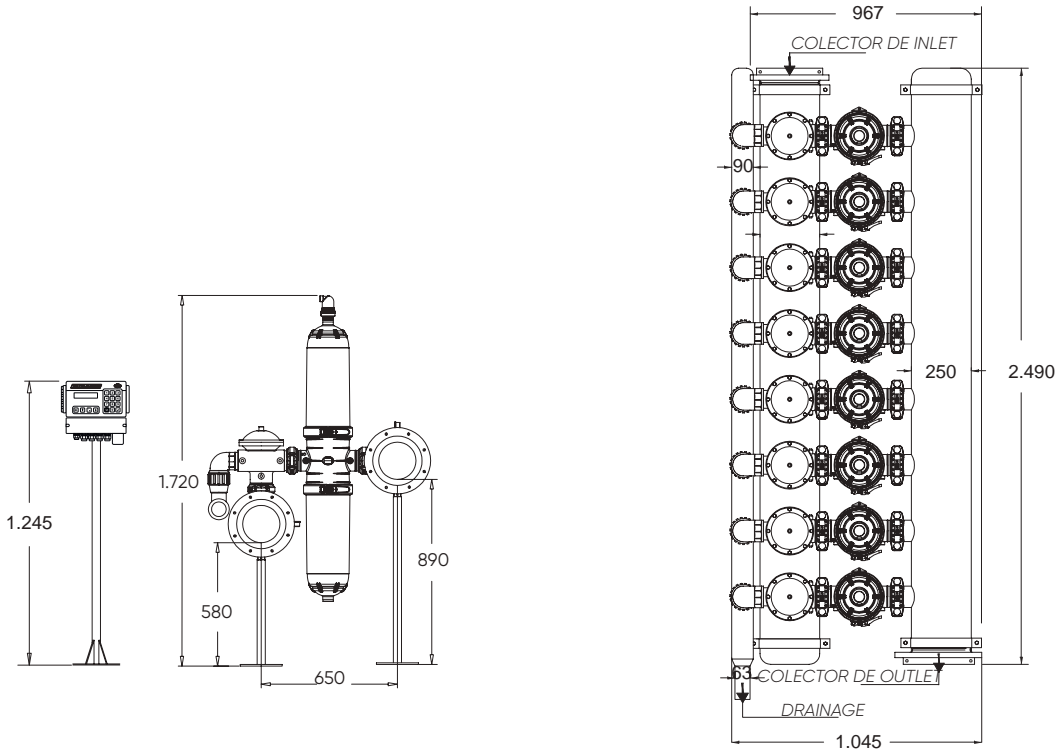


6 x 3" double body filtration station

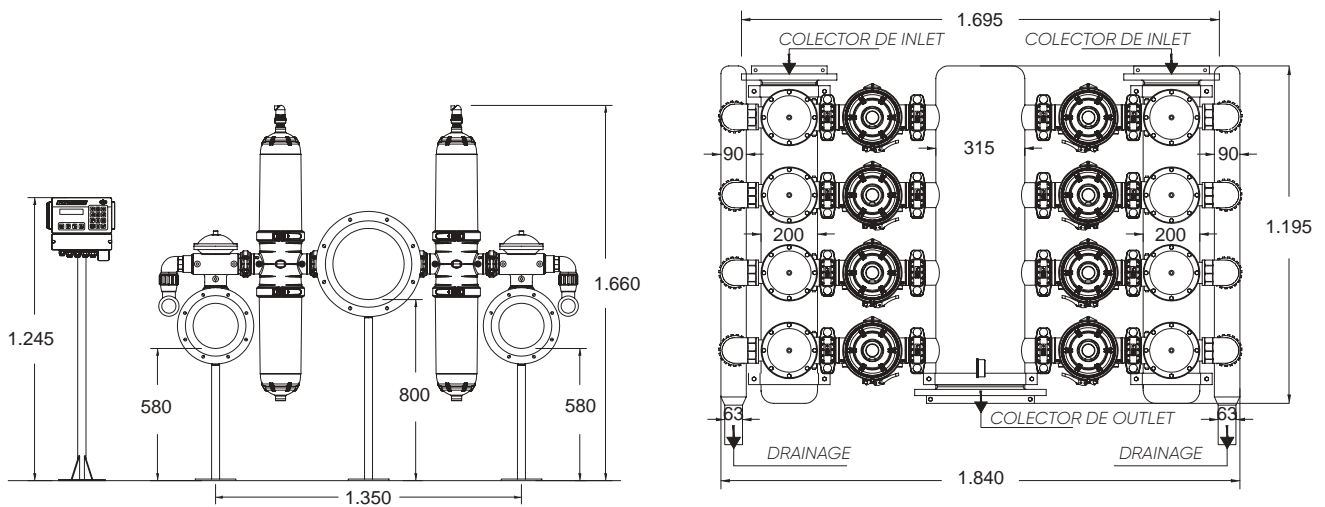


3" double body automatic filtration stations (vertical configuration). Dimensions

8 x 3" in line double body filtration station

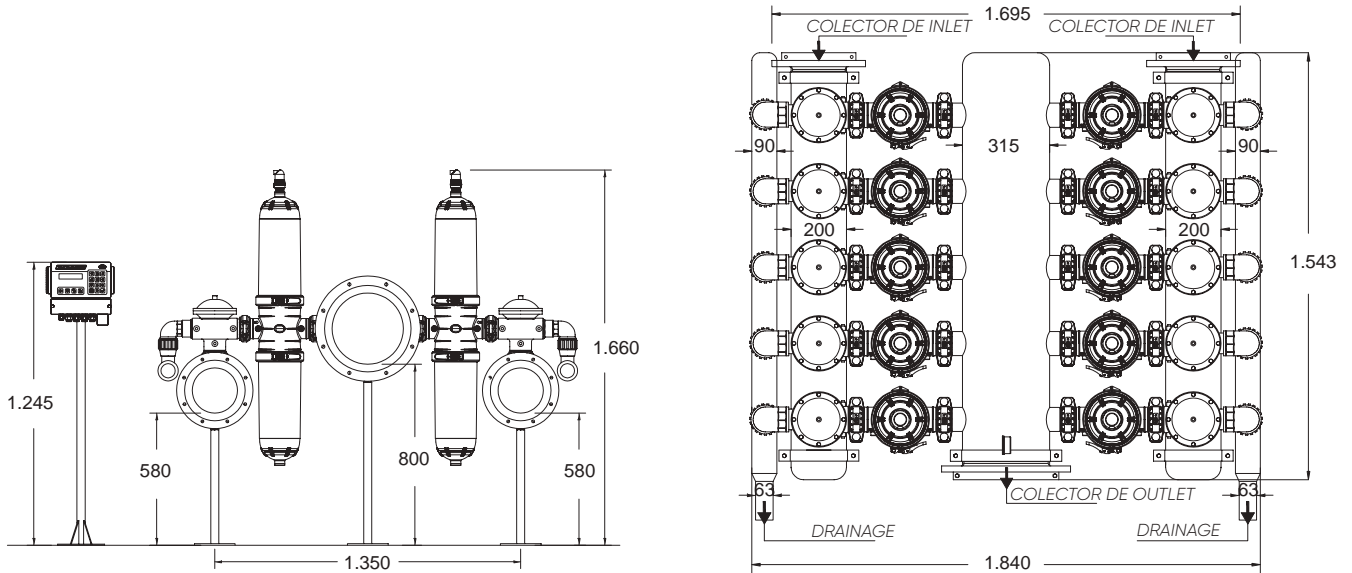


8 x 3" in parallel double body filtration station



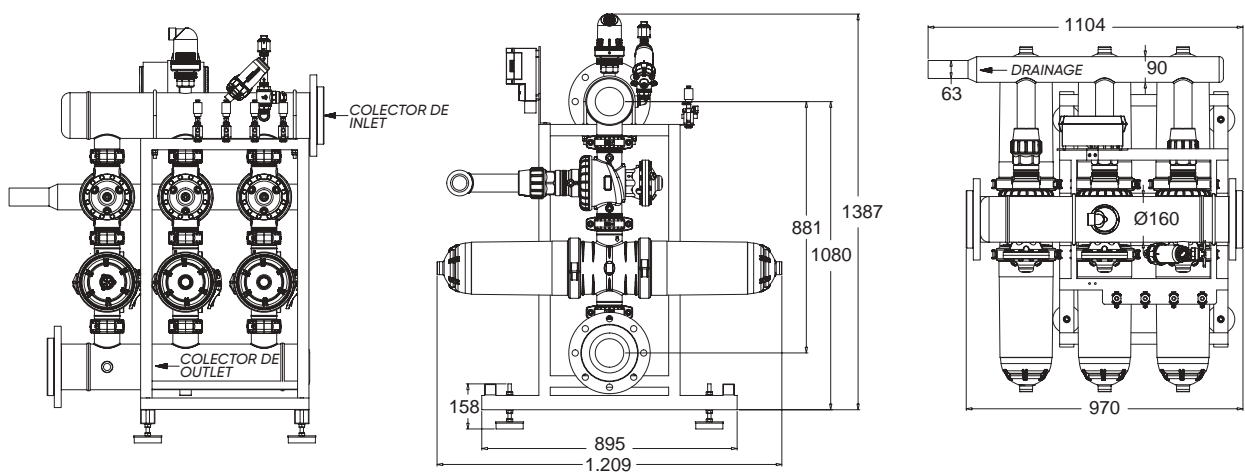
3" double body automatic filtration stations (vertical configuration). Dimensions

10 x 3" in parallel double body filtration station



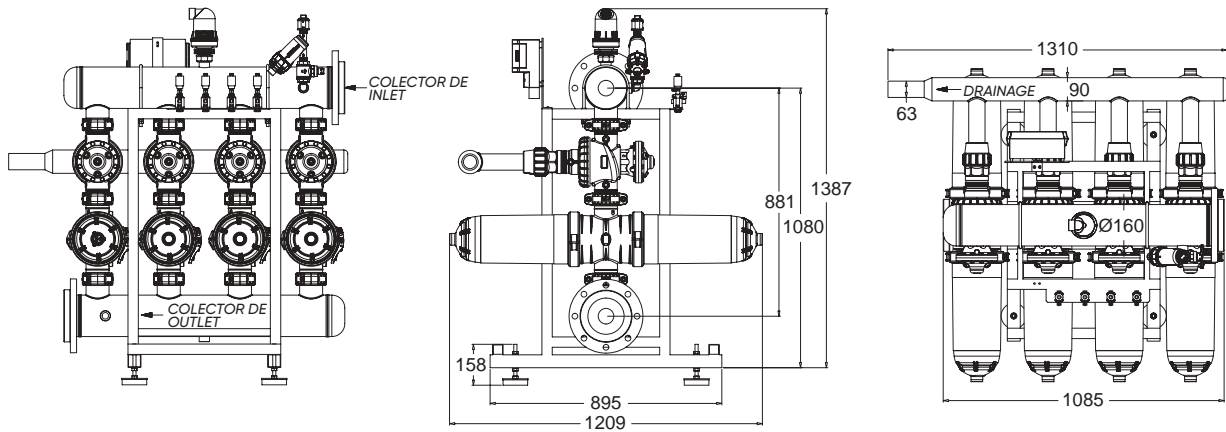
3" double body automatic filtration stations (horizontal configuration). Dimensions

3 x 3" double body filtration station

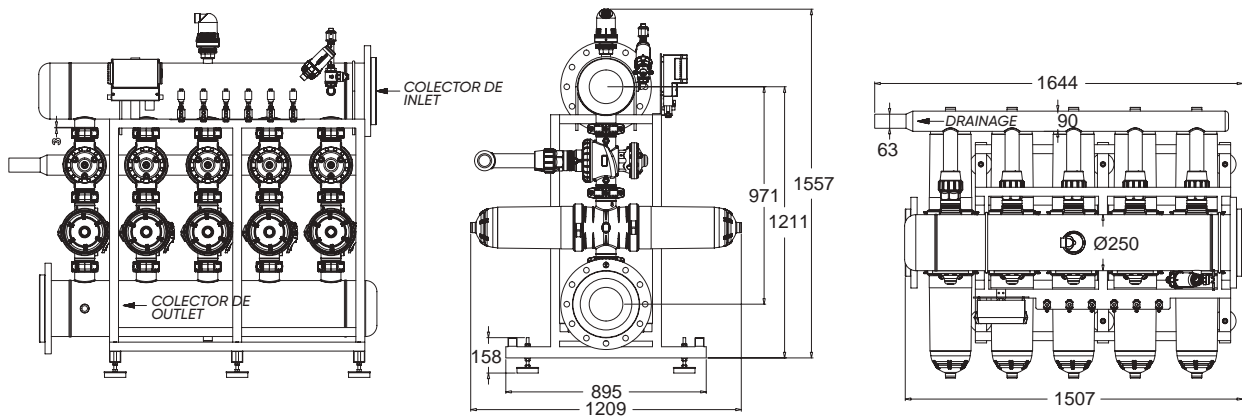


3" double body automatic filtration stations (horizontal configuration). Dimensions

4 x 3" double body filtration station

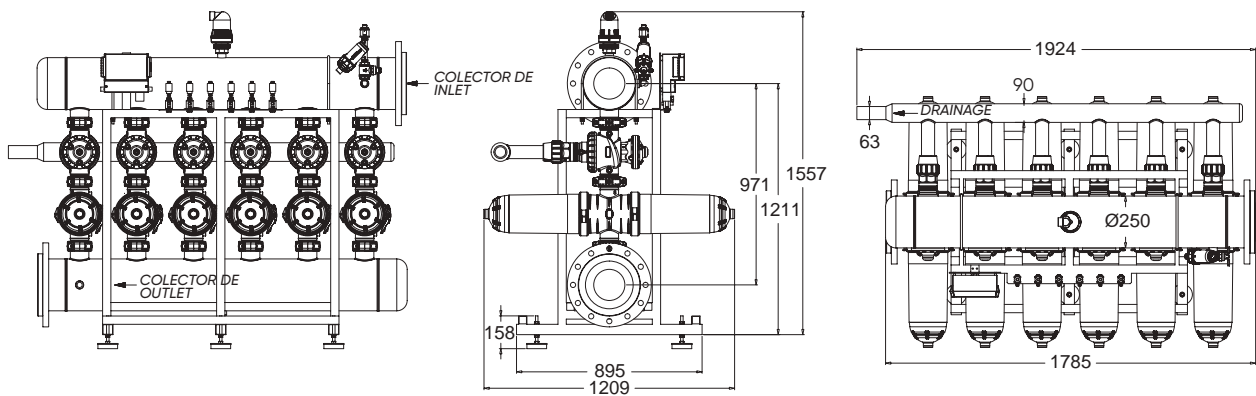


5 x 3" double body filtration station

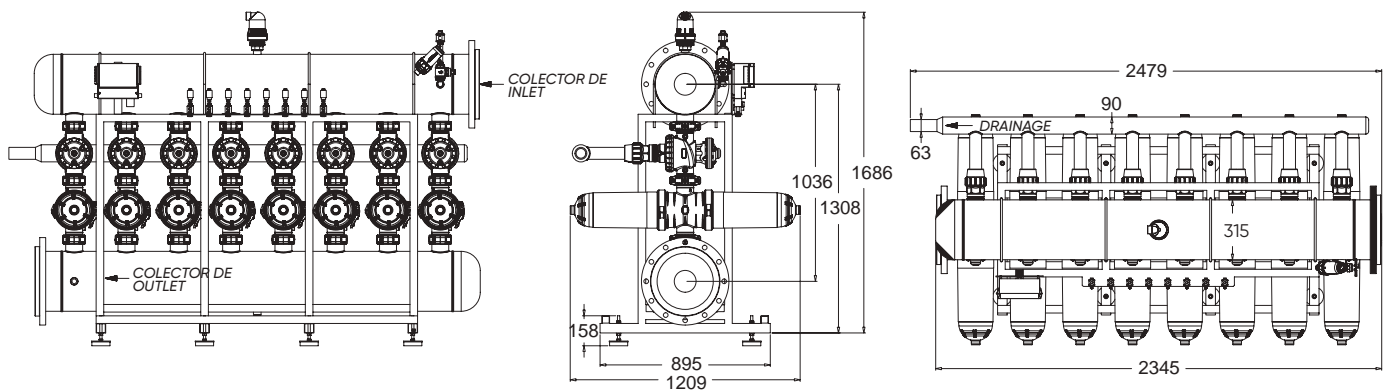


3" double body automatic filtration stations (horizontal configuration). Dimensions

6 x 3" double body filtration station



8 x 3" double body filtration station



Dimensions

Filtration capacity depending on filter model and water quality

Filters 3/4", 1", 1 1/4" y 1 1/2"

Filters	size	130 microns			100 microns			filtration surface
		A	B	C	A	B	C	
Screen	3/4" - 1"	5,0	3,5	2,0	4,8	3,3	1,8	172 cm ²
Discs	3/4" - 1"	4,7	3,1	1,7	4,5	2,9	1,6	195 cm ²
Screen	1 1/4" - 1 1/2"	13,0	8,8	6,7	12,5	8,3	6,2	297 cm ²
Discs	1 1/4" - 1 1/2"	12,0	8,5	6,6	11,5	8,1	5,9	322 cm ²

(m³/h)

Manual and hydrocyclonic filters

filtro	Disc 200 microns			Disc 130 microns			Disc 100 microns			Disc 50 microns			Disc 20 microns pre-treat si % ≤ 20 ppm
	A	B	C	A	B	C	A	B	C	A	B	C	
2" STD	24	18	9	23	15	9	19	12	8	12	9	6	4
2"	33	22	13	31	20	12	25	17	10	16	11	6	5
2"-Largo	39	25	22	37	24	20	30	20	17	19	13	10	6
3"	50	33	22	47	31	19	39	26	17	25	17	10	6
3" double SUPER COMPACT	55	40	22	53	35	20	44	28	18	28	20	13	8
4" double SUPER COMPACT	61	44	24	58	39	22	48	30	19	30	22	15	8
3" double COMPACT	74	49	30	69	44	26	57	37	23	36	24	14	10
4" double COMPACT	81	54	33	77	50	29	63	41	25	40	26	15	10
3" double	107	72	43	102	65	38	83	54	33	52	34	20	12
4" double	118	79	47	112	72	42	91	59	36	57	38	22	12

2" single body automatic filtration stations

Number de Filters	Disc 200 microns			Disc 130 microns			Disc 100 microns			Disc 50 microns			Disc 25 microns		
	A	B	C	A	B	C	A	B	C	A*	B*	C*	A*	B*	C*
1	33	22	12	31	20	10	26	17	9	16	11	5	8	6	3
2	66	44	23	63	41	20	52	34	18	33	22	11	16	11	5
3	98	66	35	94	61	31	78	51	27	49	33	18	25	16	8
4	131	87	46	126	82	41	104	68	35	66	44	22	33	22	11
5	164	109	58	157	102	51	130	85	44	82	55	27	41	27	14
6	197	131	70	188	123	61	156	102	53	98	66	33	49	33	16
m3/h x filtro	32,8	21,8	11,6	31,4	20,5	10,2	25,9	17,1	8,9	16,4	10,9	5,5	8,2	5,5	2,7

* Minimum required inlet flow during backwash phase = 18 m³/h

3" single body automatic filtration stations

Number de Filters	Disc 200 microns			Disc 130 microns			Disc 100 microns			Disc 50 microns			Disc 25 microns		
	A	B	C	A	B	C	A	B	C	A*	B*	C*	A*	B*	C*
2	75	50	25	66	44	22	57	37	19	40	27	14	20	14	7
3	113	75	38	99	66	33	85	56	29	61	41	20	30	20	10
4	151	100	50	132	88	44	114	75	39	81	55	27	40	27	14
5	188	125	63	166	111	55	142	94	48	101	68	34	51	34	17
6	226	150	75	199	133	66	170	112	58	121	82	41	61	41	20
8	301	200	100	265	177	88	227	150	78	162	109	55	81	55	27
10	377	250	126	331	221	111	284	187	97	202	137	68	101	68	34
m3/h x filtro	37,7	25,0	12,6	33,1	22,1	11,1	28,4	18,7	9,7	20,2	13,7	6,8	10,1	6,8	3,4

* Minimum required inlet flow during backwash phase = 18-33 m³/h subject to the degree of filtration used.

3" double body automatic filtration stations

Number de Filters	Disc 200 microns			Disc 130 microns			Disc 100 microns			Disc 50 microns			Disc 25 microns		
	A	B	C	A	B	C	A	B	C	A*	B*	C*	A*	B*	C*
3	226	150	75	199	133	66	170	112	58	121	82	41	61	41	20
4	301	200	100	265	177	88	227	150	78	162	109	55	81	55	27
5	377	250	126	331	221	111	284	187	97	202	137	68	101	68	34
6	452	300	151	397	265	133	341	224	116	242	164	82	121	82	41
8	603	400	201	530	354	177	454	299	155	323	218	109	162	109	55
10	753	500	251	662	442	221	568	374	194	404	273	137	202	137	68
m3/h x filtro	75,3	50,0	25,1	66,2	44,2	22,1	56,8	37,4	19,4	40,4	27,3	13,7	20,2	13,7	6,8

* Minimum required inlet flow during backwash phase = 18 m3/h

Total Suspended Solids in water			
A < 50 ppm	50 ppm < B < 100 ppm	100 ppm < C < 150 ppm	
River / Reservoir	Artificial Channel	Wastewater	
Disc	microns	mesh	Application
Yellow	200	80	Medium filtration level for sprinkler applications
Red	130	120	Medium-fine filtration for drip irrigation and microsprinkler applications
Blue	100	150	Medium- fine filtration for tape and drip irrigation
Green	50	300	Fine filtration, for climatization, fog and industrial applications
Celeste	25	600	Fine filtration for industrial applications
Violet	20	625	Fine filtration for industrial applications

Filtration area

Initial data	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns
crests per disc	800	950	1100	1440
total area per crest (mm2)	0,2	0,13	0,1	0,05
disc thickness	1,35	1,1	1,1	0,84
effective intersections	3,5	3,5	3,5	3,5
disc effective area	756,00	475,48	423,50	211,68

	2" standard	2"	2" long & 3" manual	3" & 4" Manual double body	Automatic 2" & 3"	Automatic 3" & 4" double body
discs per 130 micron cartridge	208	288	372	744	330	660

Effective filtration area - 2" STD manual filter

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns
mm ²	129.276,00	98.898,80	94.440,50	58.212,00
cm ²	1.292,76	988,99	944,41	582,12

Effective filtration area - 2" manual filter

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns
mm ²	182.952,00	136.936,80	130.014,50	82.555,20
cm ²	1.829,52	1.369,37	1.300,15	825,55

Effective filtration area - 2" Long and 3" manual filters

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns
mm ²	235.116,00	185.435,25	168.976,50	106.051,68
cm ²	2.351,16	1.854,35	1.689,77	1.060,52

Effective filtration area - 2" and 3" automatic filters

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns	Disc 25 microns
mm ²	209.412,00	161.661,50	146.107,50	94.197,60	53.025,84
cm ²	2.094,12	1.616,62	1.461,08	941,98	530,26

Effective filtration area - 3" and 4" double body manual filters

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns
mm ²	470.232,00	370.870,50	337.953,00	212.103,36
cm ²	4.702,32	3.708,71	3.379,53	2.121,03

Effective filtration area - 3" and 4" double body automatic filters

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns	Disc 25 microns
mm ²	418.824,00	323.323,00	292.215,00	188.395,20	106.051,68
cm ²	4.188,24	3.233,23	2.922,15	1.883,95	1.060,52

Effective filtration area - 3" and 4" double body compact manual filters

	Disc 200 microns	Disc 130 microns	Disc 100 microns	Disc 50 microns
mm ²	365.904,00	273.873,60	260.029,00	165.110,40
cm ²	3.659,04	2.738,74	2.600,29	1.651,10

Working conditions for automatic filtration stations

	Working conditions		
	2" single body filter	3" single body filter	3" double body filter
Maximum pressure		10 bar	
Minimum filtration pressure		1 bar	
Head loss		0,6 bar	
Minimum backwash pressure		depending on filtration degree	
200 - 130 - 100 microns		3 bar	
50 microns		4 bar	
25 microns		5 bar	
Minimum backwash flow		depending on filtration degree	
200 - 130 - 100 microns	10 m ³ /h	15 m ³ /h	15 m ³ /h
25-50 microns	12-14 m ³ /h	18-20 m ³ /h	18-20 m ³ /h
Maximum temperature		60°C	
pH interval		4-13	

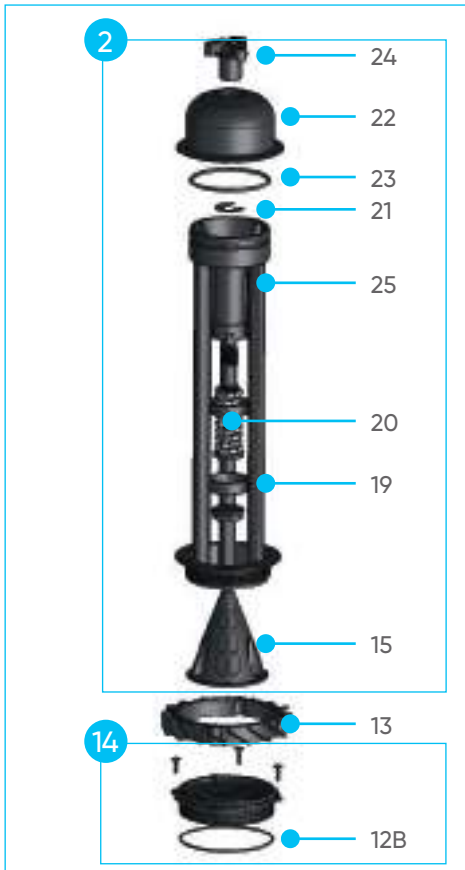


Spare parts and accessories

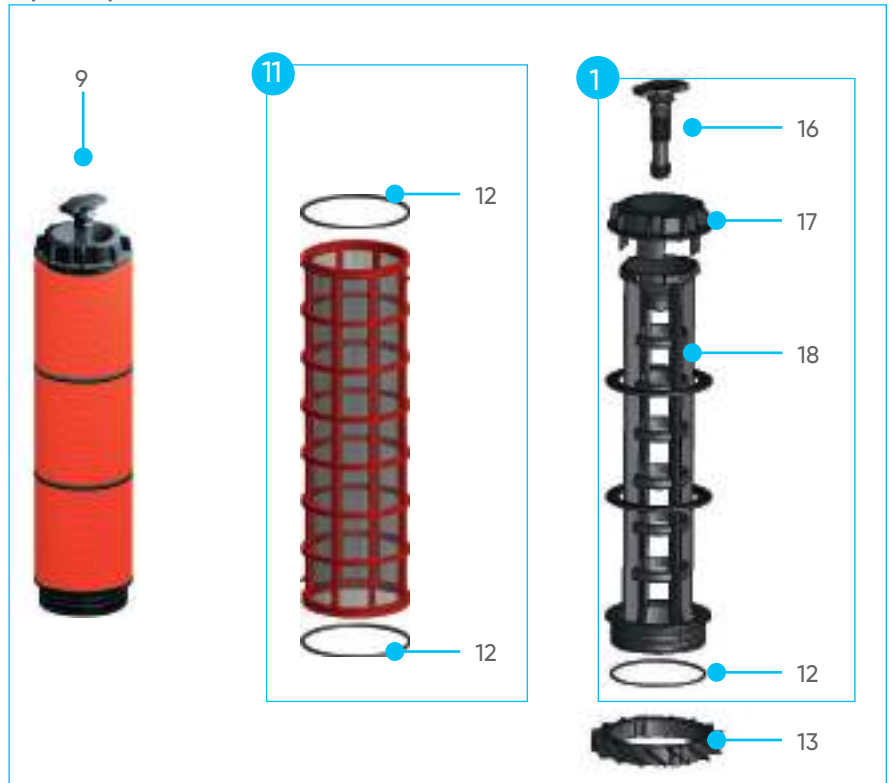
Spare parts and accessories



Spare parts for automatic filters



Spare parts for manual filters



1.- Filter cover

code	size	Q/	n°
097824	2" Std.	1	A-2
097345	2"	1	A-11
097346	3" / 2" L	1	A-4

1.- Transparent filter cover (Only for demonstrations)

code	size	Q/	n°
097347	2"	1	A-2
097348	3" / 2" L	1	A-4

2.- Stainless steel clamp

code	size	Q/	n°
097350	2"- 3"	1	A-1

3.- PAFV clamp

code	size	Q/	n°
097759	2"- 3"	1	A-2

4.- NBR o-ring for big flow filters

code	size	Q/	n°
097351	2"- 3"	10	A-10

5.- Filter body (3 ways)

code	size	Q/	n°
097770	2"- BBB	1	A-11
097772	2"- VBV	1	A-11
097771	2"- VVB	1	A-11
097773	2"- NNN	1	A-11
097775	2"- VNV	1	A-11
097774	2"- VVN	1	A-11
097777	3"- BBB	1	A-8
097779	3"- VBV	1	A-8
097778	3"- VVB	1	A-8
097780	3"- NNN	1	A-8
097782	3"- VNV	1	A-8
097781	3"- VVN	1	A-8

6.- Filter body (2 ways)

code	size	Q/	n°
097785	3"- BB	1	A-9
097784	3"- NN	1	A-9
097786	3"- VV	1	A-9
097788	4"- BB	1	A-8
097787	4"- NN	1	A-8
097789	4"- VV	1	A-9

7.- O-ring for cap

code	size	Q/	n°
097802	2"	1	4114
097803	3"	1	4114

8.- Female threaded cap

code	size	Q/	n°
051512	2" BSP	25	A-1
051535	3" BSP	15	A-2
051513	2" NPT	25	A-1
051536	3" NPT	15	A-2

9.- Disc cartridge

code	size	Q/	n°
097825	2" Std. 20M	1	A-2
097826	2" Std. 50M	1	A-2
097827	2" Std. 100M	1	A-2
097828	2" Std. 130M	1	A-2
097829	2" Std. 200M	1	A-2
098647	2"-20M	1	A-2
098674	2"-50M	1	A-2
097341	2"-100M	1	A-2
097342	2"-130M	1	A-2
098676	2"-200M	1	A-2
098648	3"/2"L-20M	1	4126
098675	3"/2"L-50M	1	4126
097343	3"/2"L-100M	1	4126
097344	3"/2"L-130M	1	4126
098677	3"/2"L-200M	1	4126
098649	Aut.-25M	1	4126
098777	Aut.-50M	1	4126
098778	Aut.-100M	1	4126
098779	Aut.-130M	1	4126
098780	Aut.-200M	1	4126

10.- Discs kit (500 units)

code	size	Q/	n°
098813	20M	1	A-11
098495	25M	1	A-2
098814	50M	1	A-2
098815	100M	1	A-11
098816	130M	1	A-11
098817	200M	1	A-11

11 Screen cartridge for big flow filters

code	size	Q/	n°
098678	2" - 100M (S)	1	A-2
098680	2" - 130M (S)	1	A-2
098679	2" L/3" - 100M (M)	1	A-19
098681	2" L/3" - 130M (M)	1	A-19
098918	2" L/3" - 200M (M)	1	A-19

12.- O-ring for manual cartridge (disc/ screen)

code	size	Q/	n°
097349	2"-3"	10	A-10

12 B.- O-ring for automatic disc cartridge and manual before 2015

code	size	Q/	n°
097335	2"-3"	10	A-10

13.- Deflector crown for hydrocliclonic filter

code	size	Q/	n°
097336	2"-3"	1	A-10

14 Automatic filter adaptor kit

code	size	Q/	n°
098782	-	1	4112

15.- NBR non-return valve for automatic disc cartridge

code	size	Q/	n°
098781	-	1	4109

16.- Plastic screw for manual disc cartridge

code	size	Q/	n°
097801	-	1	-

17.- Cap for disc cartridge

code	size	Q/	n°
097800	-	5	A-10

18.- Body frame for manual cartridge

code	size	Q/	n°
097798	2"	1	A-2
097799	3"	1	-

19.- Closing cover with joint

code	size	Q/	n°
097761	-	1	-

20.- AISI 304 spring

code	size	Q/	n°
097762	-	1	-
097833	baja presión	1	-

21.- Hydraulic piston washer

code	size	Q/	n°
097763	-	1	-

22.- Hydraulic piston cover

code	size	Q/	n°
097765	-	1	A-10

23.- Conical joint for hydraulic piston

code	size	Q/	n°
097764	-	1	-

24.- Plastic screw for automatic disc cartridge

code	size	Q/	n°
097766	-	1	-

25.- Body frame for automatic cartridge

code	size	Q/	n°
097767	-	1	A-8

1 Cartridge without discs for manual filters

code	size	Q/	n°
097830	2" Std.	1	-
098892	2"	1	A-2
098891	2" L / 3"	1	A-29

2 Cartridge without discs for automatic filters

code	size	Q/	n°
098796	-	1	A-8

For ¾", 1", 1½" and 1½" filters



1 Disc cartridge

code	size	Q/	n°
091088	1" - ¾" 100 M	5	A-10
091089	1 ¼"-1 ½"100 M	5	A-2
091090	1" - ¾" 130 M	5	A-10
091091	1 ¼"-1 ½"130 M	5	A-2
091098 ANTIALGAS	1" - ¾" 130 M	5	A-10

2 Stainless steel screen cartridge

code	size	Q/	n°
091084	1" - ¾" 100 M	5	A-10
091085	1 ¼"-1 ½"100 M	5	A-2
091086	1" - ¾" 130 M	5	A-10
091087	1 ¼"-1 ½"130 M	5	A-2

2 PP screen cartridge

code	size	Q/	n°
191084	1" - ¾" 100 M	5	A-10
191085	1 ¼"-1 ½"100 M	5	A-2
191086	1" - ¾" 130 M	5	A-10
191087	1 ¼"-1 ½"130 M	5	A-2

3.- O-ring for filter cartridge (screen and disc)

code	size	Q/	n°
097790	¾" - 1"	10	4114
097791	1 ¼" - 1 ½"	10	4114

4.- NBR o-ring for low flow filter

code	size	Q/	n°
097792	¾" - 1"	10	A-10
097793	1 ¼" - 1 ½"	10	A-10

5.- Filter purge cap

code	size	Q/	n°
091422	¾" - 1"	10	A-2
091423	1 ¼" - 1 ½"	10	A-10



In angle cast iron backwash valve

code	size	Q/	n°
098650	3"x3"x2"	3	A-10

Patm 1
KV 3" 110

Backwash pressure (bar)	backwash flow(m³/h)
0	0,00
1	0,00
2	10,49
3	14,83
4	18,17
5	20,98
6	23,45
7	25,69
8	27,75
9	29,66

Membrane

code	size	Q/	n°
098905	3"x3"x2"	3	4114

O-ring for piston

code	size	Q/	n°
098906	3"x3"x2"	3	4114

M-8 washer

code	size	Q/	n°
098907	3"x3"x2"	3	4114

Flat closure washer

code	size	Q/	n°
098910	3"x3"x2"	3	4114



In line plastic backwash valve

code	size	Q/	n°
098890	3"x3"x2"	1	A-11

In angle plastic backwash valve

code	size	Q/	n°
098651	2"x2"x2"	1	A-1

Patm 1
KV 2" 52

Backwash pressure (bar)	backwash flow(m³/h)
0	0,00
1	0,00
2	7,21
3	10,20
4	12,49
5	14,42
6	16,12
7	17,66
8	19,08
9	20,40

Membrane

code	size	Q/	n°
098895	2"x2"x2"	1	4114





HDPE manifold for filtration stations

code	size	Ø outlet	Q/	n°
098783	90	2 x 2"V	1	-
098788	110	2 x 3"V	1	-
098784	110	3 x 2"V	1	-
098789	160	3 x 3"V	1	-
098785	110	4 x 2"V	1	-
098790	160	4 x 3"V	1	-
098786	160	5 x 2"V	1	-
098791	200	5 x 3"V	1	-
098787	160	6 x 2"V	1	-
098792	200	6 x 3"V	1	-
098430	250	5 x 3"V	1	-
098431	250	6 x 3"V	1	-



Stainless steel support for filtration station manifolds

code	size	Q/	n°
098793	90	1	-
098784	110	1	-
098795	160	1	-

AISI 304



HDPE drainage manifold for filtration stations

code	size	Ø outlet	Q/	n°
091321	63	2 x 2"	1	-
091320	63	3 x 2"	1	-
091319	63	4 x 2"	1	-
091318	63	5 x 2"	1	-
091317	63	6 x 2"	1	-
091323	63	8 x 2"	1	-



Micropipe for hydraulic control (1000 m/roll)

code	size	Q/	n°
098652	6x8	1.000	A-14+A-17



Kit Módulo de expansión para programador FILTMASTER

code	solenoid	n° Filters	n°
098807	-	-	1



Kit Programador FILTMASTER 24 VAC 2 outlets

code	solenoid	n° Filters	n°
098806	24V	0	1



Pressure gauge (10 bar)

code	size	Q/	n°
097354	¼"	5	A-10

Repuestos y accesorios



FITMASTER coupling for grooved pipes

code	size	Q/	n°
097352	2"	10	A-1
097208	2 1/2"	10	A-2
097353	3"	10	A-2
098657	4"	5	A-2
097209	6"	4	A-11
097210	8"	4	A-8

Made in polyamide reinforced with fiberglass

FITMASTER coupling Ac. Inox.

code	size	Q/	n°
098402	2"	10	A-2
098403	2 1/2"	10	A-2
098404	3"	10	A-2
098405	4"	4	A-2
098406	6"	4	A-11
098407	8"	3	A-11



Grooved/threaded connector

code	size	Q/	n°
098902	2"	3	4112



Gasket for FITMASTER coupling

code	size	Q/	n°
097839	2"	10	A-2
097877	2 1/2"	10	A-2
097840	3"	10	A-2
097841	4"	4	A-2
097878	6"	8	A-11
097879	8"	3	A-8



Grooved/PVC socket connector

code	size	Q/	n°
098666	75-63x2"	5	A-10
098667	110-90x3"	3	A-1
098668	125-110x4"	3	A-2
098669	180-160x6"	2	A-2

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