AVENTURA

Components Are Everything

ADDING VALUE TO YOUR SYSTEMS

WATER TREATMENT COMPONENTS

WATER HANDLING COMPONENTS

WASTEWATER TREATMENT COMPONENTS

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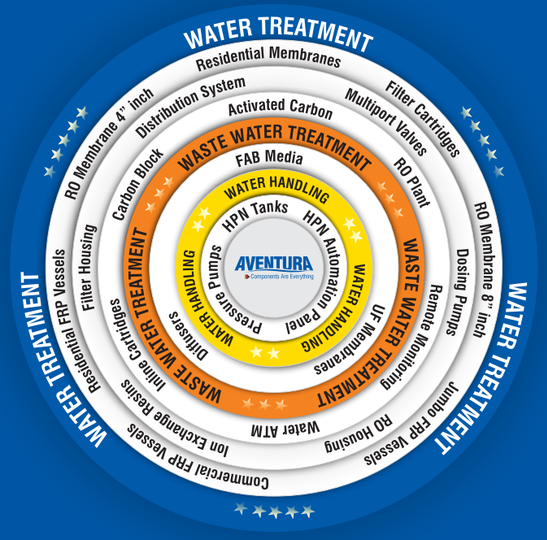
PRODUCT FOOTPRINT IN WTP, RO, UF AND STP

Accreditation

Aventura Components Pvt. Ltd. is a leader in the Water Treatment, Water Handling and Wastewater Treatment Components in India. It serves OEMs and system integrators as a one-stop-shop for premium quality equipment. Providing ideal solutions through both technological and business innovation in the area of water & wastewater products, Aventura's reach is extended to over 75% of the OEMs across the country.

Our Key Offerings

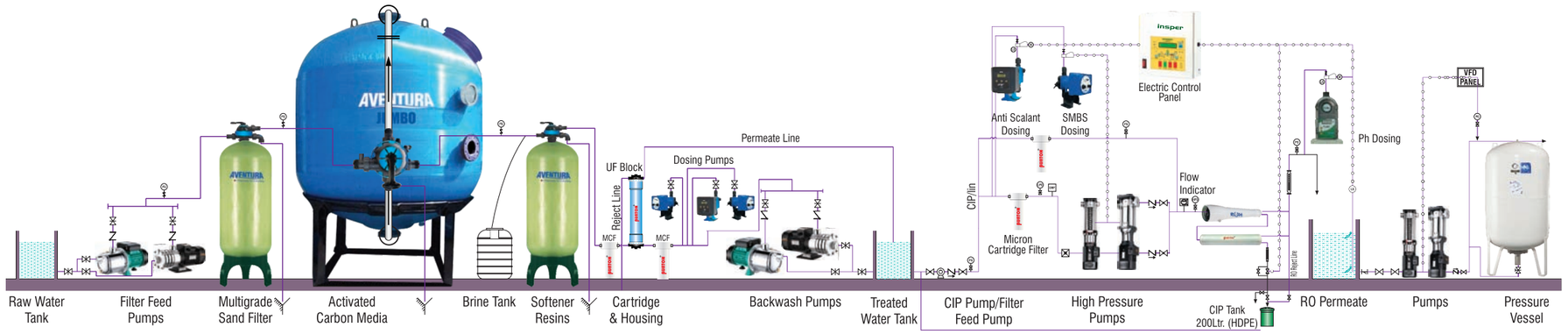


VALUE OF FIVE

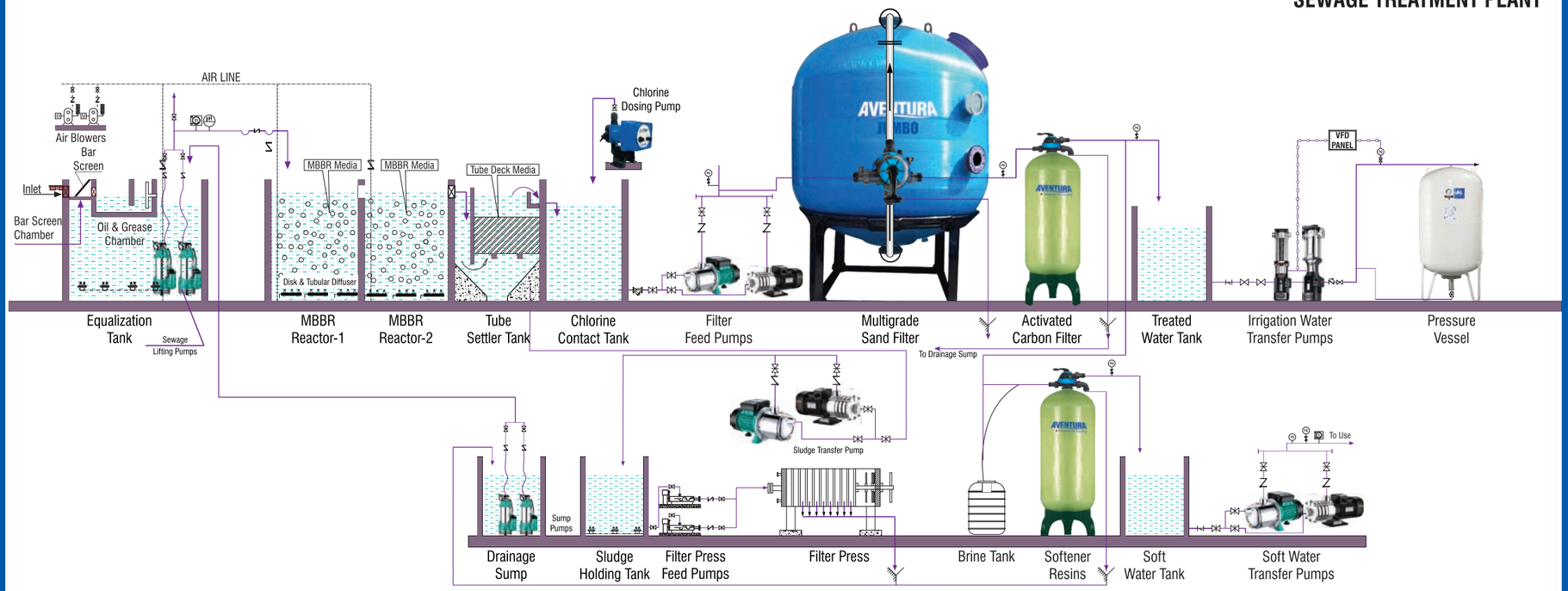
A one-stop-shop for Water Treatment Components, Water handling Components and Wastewater Treatment Equipment. We have a strong belief in Respond- Serve- Care theory and guide our relationship with our Value of Five, and aspire to build a lasting association with the OEM community to help them mark their presence in the industry.

- WORLD CLASS PRODUCTS & TECHNOLOGY
- KNOWLEDGE SHARING
- INTEGRATED SOLUTIONS
- BUILDING RELATIONSHIPS
- EXTENSIVE REACH

WATER TREATMENT PLANT, REVERSE OSMOSIS AND ULTRA FILTRATION



SEWAGE TREATMENT PLANT



OUR BRANDS

BURTON+ | ROH | nuton SMART PUMPING | axion | insper

Product Details

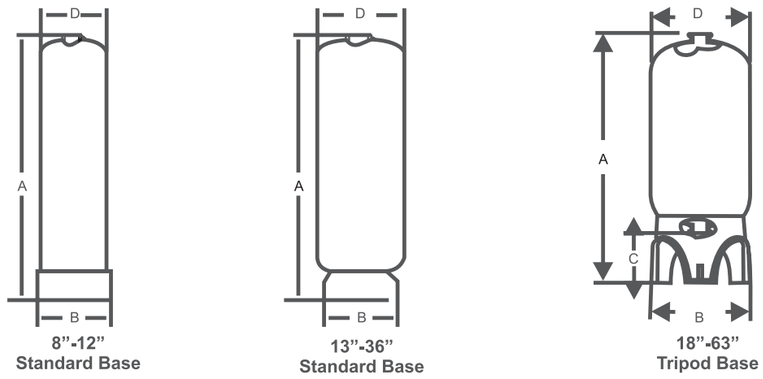
Residential FRP Vessel

Size	Volume		Weight (Empty)	Opening		Base	Dimensions (mm)			
	Litre	Cu.ft		Top	Bottom		A	B	C	D
6x10	3.30	0.12	1.26	2.5" -NPSM	-	Standard	256	164	-	155
6x18	6.70	0.24	1.88	2.5" -NPSM	-	Standard	459	164	-	155
6x35	13.70	0.48	3.20	2.5" -NPSM	-	Standard	891	164	-	155
7x24	12.60	0.45	2.45	2.5" -NPSM	-	Standard	620	189	-	182
7x35	21.57	0.7	3.40	2.5" -NPSM	-	Standard	904	189	-	181
8x24	16.60	0.59	2.88	2.5" -NPSM	-	Standard	612	214	-	207
8x35	26.87	0.9	4.15	2.5"-8NPSM	-	Standard	905	214	-	206
8x44	34.44	1.2	4.80	2.5"-8NPSM	-	Standard	1131	214	-	206
10x35	39.36	1.4	4.60	2.5"-8NPSM	-	Standard	903	264	-	257
10x54	63.21	2.2	7.40	2.5"-8NPSM	-	Standard	1390	264	-	257
12x48	88.57	3.1	8.40	2.5"-8NPSM	-	Standard	1233	311	-	308
12x52	97.90	3.4	8.95	2.5"-8NPSM	-	Standard	1342	311	-	308
13x54	104.47	3.7	10.05	2.5"-8NPSM	-	Standard	1400	300	-	334
14x65	148	5.23	14.80	4"-8UN	-	Standard	1674	365	-	363
16x65	194	6.86	18.65	4"-8UN	4"-8UN	Standard	1671	416	-	413

Commercial FRP Vessel

18x65	269	9.51	30.50	4"-8UN	-	Standard	1722	458	-	486
	257	9.08	33.57	4"-8UN	4"-8UN	Tripod	2027	488	346	486
18x65	261	9.22	41.50	6" Flange	-	Standard	1776	454	-	485
			47.60	6" Flange	6" Flange	Tripod	2079	488	292	485
21x62	330	11.66	42.87	4"-8UN	4"-8UN	Tripod	2064	550	394	555
			55.60	6" Flange	6" Flange	Tripod	2128	550	339	549
24x72	473	16.71	55.00	4"-8UN	4"-8UN	Tripod	2168	618	300	626
	491	17.35	64.60	6" Flange	6" Flange	Tripod	2222	618	245	624
30x72	697	24.63	90.25	4"-8UN	4"-8UN	Tripod	2139	770	335	780
	674	23.82	100.10	6" Flange	6" Flange	Tripod	2199	770	280	779
36x72	1011	35.72	123.00	4"-8UN	4"-8UN	Tripod	2147	932	342	938
	970	34.28	132.60	6" Flange	6" Flange	Tripod	2213	932	287	931
42x72	1494	52.79	215.00	6" Flange	6" Flange	Tripod	2360	1038	288	1089
48x72	1895	66.00	274.00	6" Flange	6" Flange	Tripod	2360	1172	295	1233
63x67	2451	96.61	306.00	6" Flange	6" Flange	Tripod	2025	1560	305	1625
63x86	3306	116.82	360.00	6" Flange	6" Flange	Tripod	2453	1560	305	1625

Product Drawing



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Composite Pressure Vessels

Description

Aventura offers premium quality Composite Pressure Vessels for practically any water or wastewater treatment application. The high performance vessel material with FRP reinforced outer shell provides strength to withstand pressures as high as 10 kg/cm^2 without any structural damage. The vessels are immune to most chemicals ensuring corrosion free and cost-efficient solutions for water treatment.

PED KTW CE

Design Features

- High performance composite material – HDPE/ LLDPE liner with FRP filament wound outer shell
- Continuous seamless inner liner shell with -
  a) PP inlet for higher strength, temperature and pressure capabilities, in threaded end vessels
  b) Solid anodized aluminum cast flange for excellent strength, durability and leak free service, in flanged end vessels
- 100% corrosion resistance
- Designed to withstand 2,50,000 times cycle
- Maxmimum operation pressure 150 psi
- Easy Installation and low maintenance
- Unmatched warranty*
- Opaque liner for out-door applications available

* Limited warranty - 10 years for tanks upto 13" Dia and 5 years for vessels beyond 14" Dia

NSF CERTIFIED

Applications

- Residential water filtration
- Commercial water filtration
- Industrial water filtration
- Softening applications
- Demeneralization

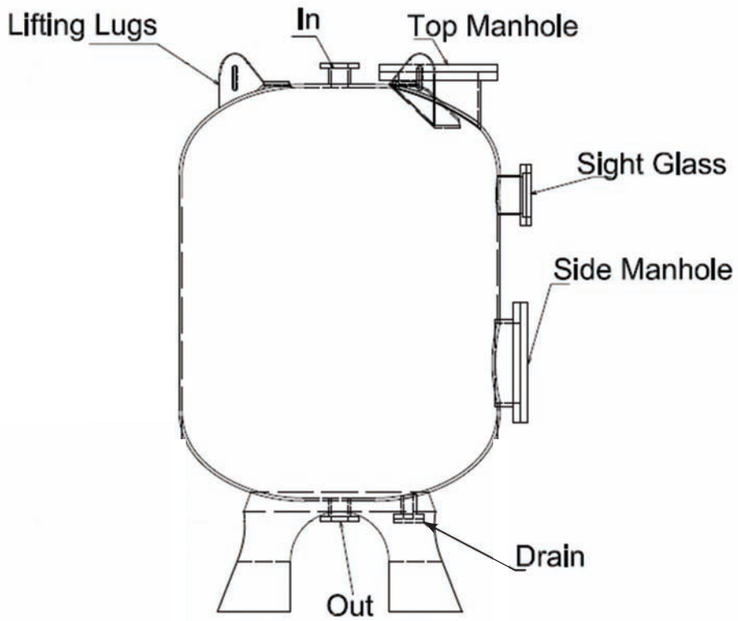
Operating Conditions

- Operating Temperature: 49˚C for threaded vessels and 65˚C for flanged vessels
- Maxmimum Operating Pressure: 150psi (10.5 bar)

Product Details

Size (Inch)	Volume	Nominal Weight(Kg)	Opening		Dimension (mm)			Manhole Size (mm)	
	Liter		Top	Bottom	D	H	TH	Top	Side
32x77	825	125	6" flange	6" flange	800	1500	2050	300	300
40x81	1275	175	6" flange	6" flange	1000	1500	2325	400	400
48x86	1850	225	6" flange	6" flange	1200	1500	2425	400	400
63x91	2575	300	6" flange	6" flange	1600	1176	2296	400	400
78x91	3075	450	6" flange	6" flange	2000	900	2300	400	400
78x114	5100	575	6" flange	6" flange	2000	1500	2900	400	400

Product Drawing



*This diagram is only for representation purpose, please refer to engg. drawings for actual size.

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JUMBO - FRP Pressure Vessels with Top and Side Manholes

Description

Aventura offers best-in-class FRP pressure vessels with side and top manhole, applicable for any water or wastewater treatment systems. With durable FRP filament wound material, these vessels are non-corrosive and light in weight enabling longer life and easy installation at site. Available from 800mm to 2000mm in diameter, these vessels can cater to a wide range of filtration and softening applications in water and wastewater segments.

Design Features

- High performance FRP filament wound outer shell
- Top and Side manhole for easy filling and removal of media
- Sight glass to examine process operation during service, regeneration and backwash
- Inlet and outlet flanges are compatible with standard PP top distributors and bottom collectors
- 100% corrosion resistance
- Light weight and easy to install at site

Applications

- Industrial water and wastewater filtration
- Commercial water filtration
- Softening application
- Demineralization application
- Iron removal filters

Operating Conditions

- Operating pressure 5 bar
- Test pressure 7.5 bar
- Maximum operating temperature 65°C

Available in sizes from 800mm to 2000mm diameter

Disclaimer: Product images are for illustration purposes only. Actual product may vary.

Advantages

- Light weight
- 100% corrosion resistance
- Long life
- Fast delivery
- No routine painting
- Aesthetic looking

***Other Sizes are availiable on request**

JUMBO FRP VESSEL

Technical Data

Type	Description	Tank Size	Maximum Flowrate	Materials
2.5"- 8 NPSM Thread	Top Mount Hub	12" - 21"	3.0 m^3/h	Noryl, ABS
4" Thread	Bottom Mount hub with 6 laterals (85 to 240 mm)	14" – 36"	25 m^3/h	ABS, PP
4" – 8 UN Thread	Top Mount Hub and distributor with 6 laterals (82 to 237 mm)	14" – 36"	25 m^3/h	PVC, EPDM, ABS, PP
	Top and Bottom Mount Elbow	14" – 36"	25 m^3/h	PVC, EPDM, PP
	Top and Bottom Mount Elbow with 6 laterals (82 to 237 mm)	14" – 36"	25 m^3/h	PVC, EPDM, ABS, PP
	Top and Bottom Mount Elbow with 6 laterals (85 to 240 mm)	14" – 36"	25 m^3/h	PVC, EPDM, ABS, PP
6" Flange	Top and Bottom Stack Distributor	14" – 36"	25 m^3/h	PVC, EPDM, PP
	Top and Bottom Mount Elbow with 6 laterals (82 to 237 mm)	14" – 36"	25 m^3/h	PVC, EPDM, ABS, PP
	Top and Bottom Stack Distributor	42" / 48"	50 m^3/h	PVC, EPDM, PP
	Top Mount Hub with 8 laterals (361, 423 mm)	42" / 48"	50 m^3/h	PVC, EPDM, PP
	Bottom Mount Hub with 8 laterals (299 & 361 mm for 42", 361 and 423 mm for 48")	42" / 48"	50 m^3/h	PVC, EPDM, PP
	Top Mount Hub with 8 laterals (547 mm)	63"	60 m^3/h	PVC, EPDM, PP
	Bottom Mount Hub with 8 laterals	63"	60 m^3/h	PVC, EPDM, PP

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Distribution & Collection Systems for Pressure Vessels

Description

Aventura's Distribution and Collection Systems are suitable for any type of FRP pressure vessels with varying diameters in the range from 12" to 63". These systems feature chemical and impact resistance for a variety of applications. They can be used for standard openings of 4" threaded and 6" flanged and for only top or both top & bottom openings.

Features

- Available for a wide range of vessel sizes (12" to 63")
- Made of PP and ABS material
- Corrosion resistant
- Easy to install
- Compatible with all pressure vessels whether threaded or flange

Applications

- Activated Carbon Filters
- Sand Filters
- Iron removal filters
- Water Softeners
- De-mineralization units

TECHNICAL SPECIFICATION

MPV F25NB TFF

- Inlet/Outlet/Drain Connection : 1” BSPF
- Valve threading for vessel mounting : 2.5” NPSM
- Flow Rate : 2m³/hr@0.35kg/cm²
- Max.Operating Pressure : 5kg/cm²

MPV S25NB FFS

- Inlet/Outlet/Drain Connection : 1” BSPF
- Valve threading for vessel mounting : 2.5” NPSM
- Flow Rate : 2m³/hr@0.35kg/cm²
- Max.Operating Pressure : 5kg/cm²
- Ejector Suction at 2kg/cm² : 170Lph
- Ejector Ratio : 1:2

MPV F25NB FFF

- Inlet/Outlet/Drain Connection : 1” BSPF
- Valve threading for vessel mounting : 2.5” NPSM
- Flow Rate : 5m³/hr@0.35kg/cm²
- Max.Operating Pressure : 5kg/cm²

MPV S25NB FFS

- Inlet/Outlet/Drain Connection : 1” BSPF
- Valve threading for vessel mounting : 2.5” NPSM
- Flow Rate : 5m³/hr@0.35kg/cm²
- Max.Operating Pressure : 5kg/cm²
- Ejector Suction at 2kg/cm² : 450Lph
- Ejector Ratio : 1:1

MPV S40NB FFS

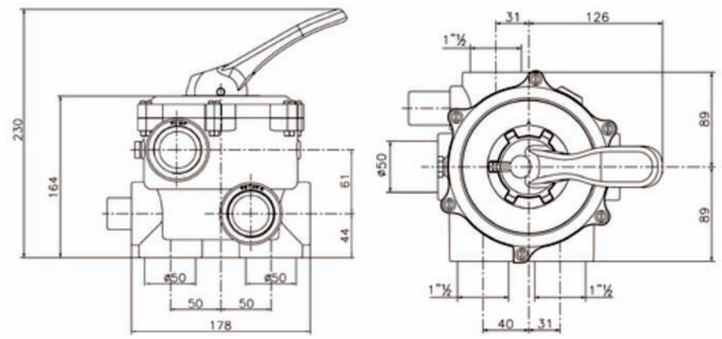
- Inlet/Outlet/Vessel Top/Bottom connection : 1.5” BSPF
- Valve Mounting : Side Mount
- Flow Rate : 12m³/hr@0.35kg/cm²
- Max. Operating Pressure : 5kg/cm²
- Ejector Suction at 2kg/cm² : 750Lph
- Ejector ratio : 1:1

MPV F40NB FFF

- Inlet/Outlet/Vessel Top/Bottom connection : 1.5” BSPF
- Valve Mounting : Side Mount
- Flow Rate : 12m³/hr@0.35kg/cm²
- Max. Operating Pressure : 5kg/cm²

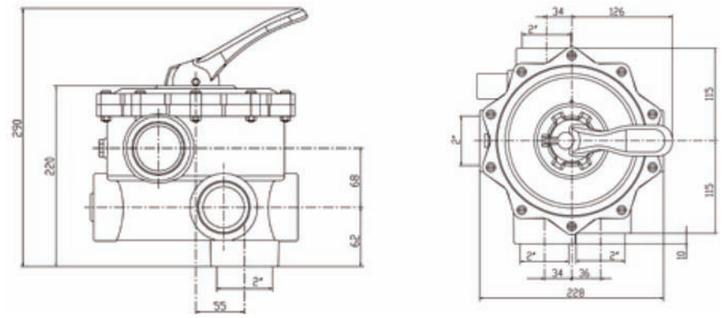
Specifications

MiDAS 1½ Inch



Specifications

MiDAS 2 Inch



AVENTURA Components Are Everything

Multiport Valves

Description

Aventura brings to you an extensive range of multiport valves innovatively designed for the customer’s convenience. These are easy to handle and simple to operate multiport valves provide excellent seal capability preventing any internal leakage. These valves have long-term reliability and a long shelf life. By simple clockwise and anticlockwise rotation of a single-lever, multiple functions such as filter backwash, brine injection, slow rinse, fast rinse, brine rinse and back to service mode can be performed.

Design Features

- Automatic and Manual valves
- Seal slice with scuff resistance
- Corrosion resistance
- Perfect sealing
- Small rotation angle
- No leakage
- Long service life
- Easy to operate
- Top mount and Side mount types available

Applications

- Sand Filters
- Activated Carbon Filters
- Iron removal filters
- Water Softeners
- De-mineralization units

MiDAS Germany

Description 1½ inch 6-way-valves — SIDE MOUNT

1½ inch SIDE- MOUNT- Valve Classic Generation, ABS (Cycolac) with slip – or threaded connections.

ALL- OPEN- Type with 2 plugs.

Description 2 inch 6-way-valves — SIDE MOUNT

2 inch SIDE- MOUNT- Valve Classic Generation, ABS (Cycolac) with slip – or threaded connections.

ALL- OPEN- Type with 2 plugs.

Model	Packaging	Code	kg - 1½ inch	kg - 2 inch
1 T – Model Threaded	6	310- 1T	11	19
3 T – Model Threaded	6	310- 3T	11	19
1S- Model Slip	6	310- 1S	11	19
3S- Model Slip	6	310- 3S	11	19
OT – Model ALL- OPEN. threaded	6	310- OT	12	20
OS – Model ALL- OPEN. slip	6	310-OS	12	20

MULTIPORT VALVES

Technical Specifications

Model		Units	CPA2 - 4040	CPA5-LD - 4040	ESPA2-LD - 4040	SWC - LD - 4040
Specification	Permeate Flow	gpd (m^3/d)	2250 (8.5)	2100 (7.95)	2000 (7.57)	1750 gpd (6.62)
	Salt Rejection	%	99.5 (99.2% Min)	99.7 (99.5% Min)	99.6 (99.4% Min)	99.7 (99.5% Min)
Type	Configuration		Spiral Wound	Low Fouling Spiral Wound	Low Fouling Spiral Wound	Low Fouling Spiral Wound
	Membrane Material		Composite Poly-amide	Composite Poly-amide	Composite Polyamide	
	Membrane Area	ft^2 (m^2)	85 (7.9)	80 (7.43)	80 (7.43)	80 (7.43)
Application Limits	Maximum Applied Pressure	psig (MPa)	600 (4.16)	600 (4.16)	600 (4.16)	1200 (8.27)
	Maximum Chlorine Concentration	ppm	< 0.1	< 0.1	< 0.1	< 0.1
	Maximum Operating Temperature	°F (°C)	113 (45)	113 (45)	113 (45)	113 (45)
	pH range, continuous cleaning		2 to 10*	2 to 11*	2 to 11*	2-11 (1-13)*
	Maximum Feedwater Turbidity	NTU	1.0	1.0	1.0	1.0
	Maximum Feedwater SDI (15 mins)		5.0	5.0	5.0	5.0
	Maximum Feed Flow	gpm (m^3/h)	16 (3.6)	16 (3.6)	16 (3.6)	16 (3.6)
	Maximum Pressure Drop for each element	psi	10	10	10	10

* The limitations shown here are for general use. Operating at more conservative values for specific projects may ensure the best performance and longest life of the membrane.

Test Conditions

The stated performance is for the initial data taken after 30 minutes of operation, based on the following test conditions:

- 1500 ppm NaCl solution
- 225 psi (1.55 Mpa) and 150 psi (1.05 MPa) Applied Pressure for CPA and ESPA membranes respectively
- 77 °F (25°C) Operating Temperature
- 15% Permeate Recovery
- 6.5 - 7.0 pH range

HYDRANAUTICS
Nitto Group Company

Reverse Osmosis Membranes
(4” Membranes)

* Ready Stock Availiable

Description

Hydranautics is one of the global leaders and a trusted brand in the field of membrane technology. Through its continuous commitment to unique membrane based technology, innovation& product excellence, Hydranautics offer high performance membrane solutions.

Aventura is an authorize seller of entire membranes range offered by Hydranautics these membrane elements set a new standard for high performance with high rejection and lower fouling, used extensively in municipal and industrial water and wastewater treatment.

Features

- Up to 99.7% nominal salt rejection
- High TOC, silica and hardness rejection
- High permeate flow
- Low operating pressure
- Low energy consumption
- LD technology involves innovative brine spacer design

Applications

- Desalting of well waters for municipal drinking water supplies
- Production of boiler make-up water for power plants
- Municipal wastewater plants
- Industrial surface and wastewaters

Availiable Models

- CPA2, ESPA, CPA5LD, SWC

RO MEMBRANES 4”

Technical Information

Model		Units	SW- 4040	BW-4040	ULP -I -4040	ULP-II-4040	ULP-III -4040	ULP- 4021	FR- 4040
Specification	Permeate Flow	GPD(m^3/day)	1500(5.7)	**2400(9.1)**	2900(11.0)	2500(9.5)	2100(8.0)	1050(4.0)	2400(9.1)
	Active Membrane	ft^2(m	90(8.4)	**90(8.4)**	90(8.4)	90(8.4)	90(8.4)	36(3.3)	90(8.4)
	Stabilized Salt Rejection	%	99.70%	**99.50%**	98.60%	99.00%	99.30%	99%	99.50%
	Feed spacer	mil(mm)	28(0.7)	**28(0.7)**	28(0.7)	28(0.7)	28(0.7)	28(0.7)	34(0.85)
Test Conditions			800psi/32800ppm NaCl	**225psi/2000ppm NaCl**	150psi/2000ppm NaCl	150psi/2000ppm NaCl	150psi/2000ppm NaCl	150psi/2000ppm NaCl	225psi/2000ppm NaCl
Type	Membrane Material		Polyamide thin film composite	**Polyamide thin film composite**	Polyamide thin film composite	Polyamide thin film composite	Polyamide thin film composite	Polyamide thin film composite	Polyamide thin film composite
Application Limits	Maximum Operating Temperature		45°C(113°F)	**45°C(113°F)**	45°C(113°F)	45°C(113°F)	45°C(113°F)	45°C(113°F)	45°C(113°F)
	Maximum Operating Pressure	psi	1000psi (69bar)	**1000psi (69bar)**	1000psi (69bar)	1000psi (69bar)	1000psi (69bar)	1000psi (69bar)	1000psi (69bar)
	Maximum Pressure Drop (single element)	psi	15psi(1.0bar)	**15psi(1.0bar)**	15psi(1.0bar)	15psi(1.0bar)	15psi(1.0bar)	15psi(1.0bar)	15psi(1.0bar)
	pH Range for Continuous Operation		3-11	**3-11**	3-11	3-11	3-11	3-11	3-11
	pH Range for Cleaning		1.5-12	**1.5-12**	1.5-12	1.5-12	1.5-12	1.5-12	1.5-12
	Chlorine tolerance	ppm	<0.1ppm	**<0.1ppm**	<0.1ppm	<0.1ppm	<0.1ppm	<0.1ppm	<0.1ppm
	Maximum Feed SDI		5ppm	**5ppm**	5ppm	5ppm	5ppm	5ppm	5ppm

* The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

BURTON+

Spiral Wound Elements Availiable for High Pressure Sea Water Treatment applications

Spiral Wound Elements for Brackish Water
(Low Pressure, High Productivity)

(4” Membranes)

Description

Burton (RO) 4” membranes are some of the finest products in the industry. The state of the art coating line, coupled with advanced membrane technology, yields product of the highest quality and most stable performance. These membranes are uniquely engineered to have a high level of salt rejection with minimum compromise in water flux.

Features

- Polyamide thin film composite
- Spirally wound element
- Epoxy-based FRP overwrap
- Low or ultra low pressure application for brackish water treatment

Fouling Resistant Spiral Wound Elements
(Low Pressure, High Productivity)

Description

Burton (RO) 4” membrane are some of the finest products in the industry. This membrane is specially designed for water treatment against biological and organic fouling. With build-in FR properties, this model of elements allows for effective cleaning, renewing active membrane surface thus extending the service life in the tough water conditions

Features

- Membrane material: Polyamide thin film composite
- Spirally wound element
- Epoxy-based FRP overwrap
- Used in water treatment of brackish water, surface water, groundwater,
- Municipal water with biological and organic fouling propensity.

Technical Specifications

Model		Units	ESPA2 - LD	ESPA2 - MAX	CPA2	CPA3	CPA5 - LD	LFC3 - LD	SWC5 - LD
Specification	Permeate Flow	gpd (m^3/d)	10000 (37.9)	12000 (45.4)	10000 (37.9)	11000 (41.6)	11000 (41.6)	11000 (41.6)	9000 (34.1)
	Salt Rejection	%	99.6 (99.5% Minimum)	99.6 (99.5% Minimum)	99.7 (99.5% Minimum)	99.7 (99.6% Minimum)	99.7 (99.6% Minimum)	99.7 (99.5% Minimum)	99.8 (99.7% Minimum)
Type	Configuration		Low Fouling Spiral Wound	Spiral Wound	Spiral Wound	Spiral Wound	Low Fouling Spiral Wound	Low Fouling Spiral Wound	Low Fouling Spiral Wound
	Membrane Material		Composite Polyamide	Composite Polyamide	Composite Polyamide	Composite Polyamide	Composite Polyamide	Composite Polyamide Neutrally Charged	Composite Polyamide
	Membrane Area	m^2	400 (37.1)	440 (40.8)	365 (33.9)	400 (37.1)	400 (37.1)	400 (37.1)	400 (37.1)
Application Limits	Maximum Applied Pressure	psig (MPa)	600 (4.16)	600 (4.16)	600 (4.16)	600 (4.16)	600 (4.16)	600 (4.16)	1200 (8.27)
	Maximum Chlorine Concentration	ppm	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Maximum Operating Temperature	°F (°C)	113 (45)	113 (45)	113 (45)	113 (45)	113 (45)	113 (45)	113 (45)
	pH range, continuous cleaning		2 to 11	2 to 10.6	2 to 10	2 to 10.8	2 to 11	2 to 10	2 to 11
	Maximum Feedwater Turbidity	NTU	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Maximum feedwater SDI (15 mins)		5.0	5.0	5.0	5.0	5.0	5.0	5.0
	Maximum Feed Flow	gpm (m^3/h)	75 (17)	75 (17)	75 (17)	75 (17)	75 (17)	75 (17)	75 (17)
	Maximum Pressure Drop for each element	psi	10	10	10	10	10	10	10

Technical Specifications

Model		Units	SW-8040-400	BW-8040-400	ULP-8040-400	FR-8040-400	FR-8040-370(34)
Specification	Permeate Flow	GPD(m^3/day)	6000(23)	**11900(45)**	11095(42)	10500(40)	9700(37)
	Active Membrane	ft^2(m	400(37)	**400(37)**	400(37)	400(37)	370(34)
	Stabilized Salt Rejection	%	99.70%	**99.50%**	99.00%	99.50%	99.50%
	Feed spacer	mil(mm)	28(0.7)	**28(0.7)**	28(0.7)	28(0.7)	34(0.85)
Test Conditions			800psi/32800ppm NaCl	**225psi/2000ppm NaCl**	150psi/2000ppm NaCl	225psi/2000ppm NaCl	225psi/2000ppm NaCl
Type	Membrane Material		Polyamide thin film composite	**Polyamide thin film composite**	Polyamide thin film composite	Polyamide thin film composite	Polyamide thin film composite
Application Limits	Maximum Operating Temperature		45°C(113°F)	**45°C(113°F)**	45°C(113°F)	45°C(113°F)	45°C(113°F)
	Maximum Operating Pressure	psi	1000psi(69bar)	**600psi(41bar)**	600psi(41bar)	600psi(41bar)	600psi(41bar)
	Maximum Pressure Drop (single element) pH Range for Continuous Operation	psi	15psi(1.0bar)	**15psi(1.0bar)**	15psi(1.0bar)	15psi(1.0bar)	15psi(1.0bar)
	pH Range for Cleaning		1.5 - 12	**1.5 - 12**	1.5 - 12	1.5 - 12	1.5 - 12
	Chlorine tolerance	ppm	<0.1ppm	**<0.1ppm**	<0.1ppm	<0.1ppm	<0.1ppm
	Maximum Feed SDI		5	**5**	5	5	5

RO MEMBRANES 8”

HYDRANAUTICS
Nitto Group Company

Reverse Osmosis Membranes
(8” Membranes)

Description

Hydranautics is one of the global leaders and a trusted brand in the field of membrane technology. Through its continuous commitment to unique membrane based technology, innovation& product excellence, Hydranautics offer high performance membrane solutions.

Aventura is an authorize seller of entire membranes range offered by Hydranautics, these membrane elements set a new standard for high performance with high rejection and lower fouling, used extensively in municipal and industrial water and wastewater treatment.

* Ready Stock Availiable

Features

- Up to 99.8% nominal salt rejection
- High TOC, silica and hardness rejection
- Low biological and colloidal fouling
- High permeate flow
- Low operating pressure
- Low energy consumption
- Lower cleaning frequency and costs
- LD technology involves innovative brine spacer design

Application

- Desalting of well waters for municipal drinking water supplies
- Production of boiler make-up water for power plants
- Municipal wastewater plants
- Industrial surface and wastewaters
- Seawater desalting

Application

- CPA2, ESPA, CPA5LD, SWC

BURTON+

Spiral Wound Elements for Sea Water
(8” Membranes)

Description

Burton reverse osmosis (RO) 8” elements are some of the finest products in the industry. The state of the art coating line, coupled with advanced membrane technology, yields product of the highest quality and most stable performance. This membrane is uniquely engineered to have a high level of salt rejection with minimum compromise in water flux.

Features

- Polyamide thin film composite
- Spirally wound element
- Epoxy-based FRP overwrap
- High pressure application for sea water treatment

Spiral Wound Elements for Brackish Water
(8” Membranes)

Description

This membrane is specially designed for water treatment against biological and organic fouling. With build-in FR properties, this model of elements allows for effective cleaning, renewing active membrane surface thus extending the service life in the tough water conditions.

Features

- Polyamide thin film composite
- Spirally wound element
- Epoxy-based FRP overwrap
- Used in water treatment of brackish water, surface water, groundwater,

Fouling Resistant Spiral Wound Elements
(8” Membrane)

Description

This membrane is specially designed for water treatment against biological and organic fouling. With build-in FR properties, this model of elements allows for effective cleaning, renewing active membrane surface thus extending the service life in the tough water conditions.

Features

- Membrane material: Polyamide thin film composite
- Spirally wound element
- Epoxy-based FRP overwrap
- Used in water treatment of brackish water, surface water, groundwater,
- Municipal water with biological and organic fouling propensity.

Technical specifications

4” Membrane Pressure Tube

Available pressure ratings (psi)		300, 450, 1000
Shell Material		FRP
Length (No. of. Elements)		1 to 6
Side Port Type	Feed/ Concentrate Port Connection	1” SS316 mechanical coupling for 300 and 450 psi tubes 1” duplex SS mechanical coupling for 1000 psi tubes
	Permeate Port Connection	1 /2” NPT/ BSP
End Port Type	Feed/ Concentrate Port Connection	3/4” or 1/2” FNPT or BSP PVC for 300 and 450 psi tubes 3/4” MNPT duplex steel for 1000 psi tubes
	Permeate Port Connection	1 /2” NPT/ BSP

8” Membrane Pressure Tube

Available pressure ratings (psi)		150, 300, 450, 600, 1000, 1200
Shell Material		FRP
Length (No. of. Elements)		1 to 8
Side Port Type	Feed/ Concentrate Port Connection	1.5” (Standard), 2”MC and 2.5” MC, 3”MC 2 side ports are offered
	Permeate Port Connection	1 /2” NPT/ BSP
End Port Type	Feed/ Concentrate Port Connection	3/4” or 1/2” FNPT or BSP PVC for 300 and 450 psi tubes 3/4” MNPT duplex steel for 1000 psi tubes
	Permeate Port Connection	1 /2” NPT/ BSP

AVENTURA
Components Are Everything

Membrane Pressure Tubes for Reverse Osmosis Systems

Features - 4” Pressure Membrane Tube

- Credible simple configuration
- High strength, smooth inner surface and durable FRP shell
- Polyurethane outer coating provides extra protection from environment
- Insert plastic permeate port material
- SS 316 head locking baffle for simple and safe assembly for 300 and 450 psi tubes, three turns locking ring design for 1000 psi tubes

Features - 8” Pressure Membrane Tube

- Credible simple configuration
- High strength and durable FRP shell
- Polyurethane outer coating provides extra protection from environment
- ABS permeate adaptor
- Insert plastic permeate port material
- SS 316 three turn spiral lock ring for easy head assembly
- One piece molded lock thrust cone design reduces pressure drop with high-est water flow

ISO:9001 NSF

Product Range

- End Port
- Side Port
- MOC - SS316 - Duplex & Super Duplex

Technical specifications

4” Membrane Pressure Vessels

Speciafication applicable for End Port and Side Port		
Available pressure rating (psi)	250/300/450/1000	
Length (no. of elements)	1 to 4	
Shell Material	FRP	
Shell Colour	White	
Feed/ reject Port		
Size	0.5” / 0.75” (End Port)	0.5”/0.75”/1” (Side Port)
Connection	Female NPT/ BSP (End Port)	Groove (Side Port)
Material	ABS (End Port)	S304 (SS 316 for 1000 psi) (Side Port)
Permeate Port		
Size	0.5”	
Connection	Female NPT/ BSP	
Material	ABS Standard (Stainless steel option)	
Head assembly	Head assembly consists of half moon plates, ABS seal plate & lock nut, Head seal, permeate port O- ring	
Adaptor	0.75 OD standard adaptor is provided for side entry vessel	
Straps & Saddles	Depending on length	
Packaging	PVC plastic wrapping with carton outer pack	
Max. Operating Temp	50° C (122° F)	

8” Membrane Pressure Vessels

Speciafication applicable for End Port and Side Port		
Available pressure rating (psi)	250/300/450/600/1000/1200	
Length (no. of elements)	1 to 7	
Shell Material	FRP	
Shell Colour	White	
Feed/ reject Port		
Size	1.5” (End Port)	1.5”/2.0”/ 2.5” (Side Port)
Connection	Groove	
Material	SS316 (duplex SS for 1000psi and above)	
Permeate Port		
Size	1”	
Connection	Female NPT/ BSP	
Material	ABS	
Head assembly	Retainer lock bars, cast aluminum bearing plates, ABS seal plate and lock nut, head seal, permeate port o-ring	
Adaptor	Standard 0.125” OD adaptor is included	
Straps & Saddles	Depending on length	
Max. Operating Temp	50° C (122° F)	

Applications

The 4” & 8” ROH pressure vessel is specially designed for membrane separation applications such as pure water production, wastewater treatment, water recycling and sea water desalination.

ROH

Membrane Pressure Tubes

Features - 4” Membrane Pressure Vessels

- Smooth inner surface finishing for easy loading & unloading of membrane elements
- End port and side port options available
- Different sizes of side port connection are available in side port vessels
- Outer polyurethane paint for UV resistance
- Single head assembly to cut down spare part
- ISO 9001 : 2000 certification
- 100% hydro test at 1.5X operating pressure
- Burst pressure 4X

Features - 8” Membrane Pressure Vessels

- Smooth inner surface finishing for easy loading & unloading of membrane elements
- End port and side port options available
- Different sizes of side port connection are available in side port vessels
- Outer polyurethane paint for UV resistance
- Head seal area is formed on the mandrel surface, therefore more accurate
- The head seal is captured and does roll during installation of head assembly
- Down-stream conical shape thrust cone improve water flow pattern and allow installation of head assembly in any angle
- ISO 9001: 2000 certification
- 100% hydro test at 1.5X operating pressure
- Burst pressure 4X

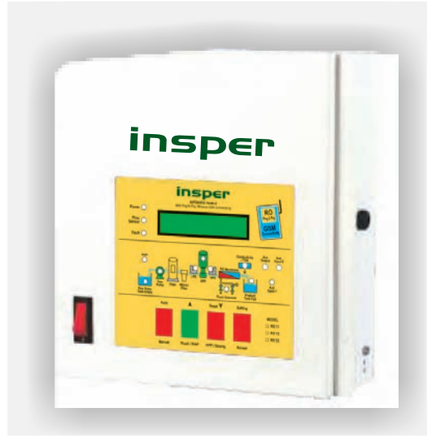
Technical specifications

Parameters	I- Eco11	I- Con11	I- Con13	I- Con33	I- Con Universal	I- Con 33 DOL 7.5/10	I- Con SD 33 SD 15/20 Hp
Current Range	0.5-10 A.	1-16 A.	1Ø-16A 3Ø-16A	3Ø-16A 3Ø-16A	10/30-16A 10/30-16A	3Ø-25A 3Ø-25A	3Ø-DOL 22A 3Ø-SD40/50A
HP	1Ø-1.5Hp	1Ø-2Hp	1Ø-2Hp 3Ø-5Hp	3Ø-5Hp 3Ø-5Hp	1Ø/3Ø 5Hp 1Ø/3Ø 5Hp	3Ø-10Hp 3Ø-10Hp	3Ø-15/20Hp 3Ø-15/20Hp
RWP	✔	✔	✔	✔	✔	✔	✔
HPP	✔	✔	✔	✔	✔	✔	✔
Dosing	✘✘	✘✘	✔	✔	✔	✔	✔
LPS	✔	✔	✔	✔	✔	✔	✔
HPS	✔	✔	✔	✔	✔	✔	✔
Flushing	✘✘	✔	✔	✔	✔	✔	✔
TWLV (PT)	✔	✔	✔	✔	✔	✔	✔
RWLV	✘✘	✔	✔	✔	✔	✔	✔
COND/TDS	✘✘	✔	✔	✔	✔	✔	✔
Auto MPV	✘✘	✔	✔	✔	✔	✔	✔
AUX 1(I/P)	✘✘	✔	✔	✔	✔	✔	✔
AUX 2(I/P)	✘✘	✔	✔	✔	✔	✔	✔
AUX (O/P)	✘✘	✘✘	✔	✔	✔	✔	✔
Overload	✔	✔	✔	✔	✔	✔	✔
Dryrun	✔	✔	✔	✔	✔	✔	✔
Dryrun DRA	✘✘	✔	✔	✔	✔	✔	✔
SPP	✘✘	✘✘	✔	✔	✔	✔	✔
Auto/Manual	✔	✔	✔	✔	✔	✔	✔
GSM	✘	✔	✔	✔	✔	✔	✔
Flow Sensor	✘	✔	✔	✔	✔	✔	✔
Alarm	✘	✘	✔	✔	✔	✔	✔
Starter Type	Electronic	Electronic/ Contactor	Electronic/ Contactor	Electronic/ Contactor	Electronic/ Contactor	Contactor	Contactor

- Model: I - 11, 13, 33, 133 SD, Universal (Electronic or Contactor)
- Panel Size: 250 W x 240 H x 100 D in mm, Panel Cutout: 225 W x 240 H in mm
- Panel Mounting Note: Depth will change depending on model
- Model: I-Eco Panel Size: 160 W x 245 H x 80 D in mm, Wall Mounting

insper

Automatic Panels With Plug n Play Wireless GSM Connectivity



Features

- Microprocessor based software technology
- Complete RO logic pre-programmed
- 16x2 alphanumeric lcd with mimic diagram and 15 led front sticker
- 4 key based easy programming for more than 20 parameters including auxiliary input 1 and 2 and auxiliary output
- Electrical safety for RWP/ HPP/TP against phase failure, electronic overload, remote sensing dry run, short circuit etc..
- Automatically flushes the membrane during starting / stopping and after a set period as required
- Inbuilt Conductivity/ TDS measurement and display with tripping facility
- Auto/ manual facility selection by switch
- Facility to operate multi port valve in pre treatment
- Flow rate measurements with totalizer
- Display for total plant run hours
- Site selectable operator & fixed master password (no multiple passwords)
- Option for electronic or contactor based panel
- SMPS based long life power supply
- Auto fault detection for easy maintenance at site
- Most unique easy to install and serviceable modular panel design with two PCB and FRC connector based inter connectivity

Coin/ Smart Card Operated Panel

Features - Coin Based Water ATM

- Built in intelligent coin validating system
- Multi coin mechanism accepts coins Rs. 1/2/5/10
- Programmable timer/ volume based water dispensing (200 ml to 20 liters)
- indicators - coin insert, water dispense and fault
- On site calibration for flow sensor/ timer
- Separate password for admin/ operator
- Inbuilt water totalizer
- Total collection reports on unit
- Easy GSM connectivity for remote monitoring of coin details, volume sold, amount collected, data on pc in excel format from easy to use android application
- Water level monitoring - stops machine during low water level
- Optional - battery backup system
- Multi tap dispensing 4 or 6 or as required
- Unique - self testing for coin, flow sensor and solenoid valve
- Easy pause, restart & insert coin buttons
- Industrial grade pull-push terminals

Features - Smart Card Based Water ATM

- Smart card based operating machine with Authentication & RFID Card
- Smart card authentication no. for individual user
- In build card based recharge facility
- Master card based special qty. of water dispense
- Customer wise card recharge data & balance
- Programming password for admin & operator separately
- Timer or volume based dispensing
- Total revenue report on UNIT & GSM based data lagging
- Multi parameter display & report on android app.
- Facility to connect GSM data logger
- Optional - battery backup
- Multiple combinations SMART CARD + COIN + GSM + RO PANEL
- Read write facility for unit code, balance rupees, and location etc.
- Industrial grade pull-push terminals

Technical Specifications

Model			HYDRAcap 40	HYDRAcap 60	HYDRAcap 80	HYDRA cap 40-LD	HYDRAcap 60-LD	HYDRAcap MAX 40	HYDRAcap MAX 60	HYDRAcap MAX 80
		Units								
Performance[1]	Filtrate Flow	m^3/h	1.8-4.3	2.7-6.7	3.7-9.0	1.1-28	1.8-4.3	1.7-5.5	2.7-8.6	3.6-11.6
	Filtrate Turbidity	NTU	≤ 0.07	≤ 0.07	≤ 0.07	≤ 0.07	≤ 0.07	≤ 0.10	≤ 0.10	≤ 0.10
	Bacteria Removal	log	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4
Type	Membrane Polymer		PES	PES	PES	PES	PES	PVDF	PVDF	PVDF
	Nominal Membrane Area	m^2	30	46	62.2	19.3	30	52	78	105
	Fiber Dimensions	mm	0.8/1.4	0.8/1.4	0.8/1.4	1.2/2.0	1.2/2.0	0.6/1.2	0.6/1.2	0.6/1.2
	Pore size	micron	0.02	0.02	0.02	0.02	0.02	0.08	0.08	0.08
Application Data[2]	Typical Filtrate Flux Range	$l/m^2/h$	59-145	59-145	59-145	59-145	59-145	34-110	34-110	34-110
	Maximum Applied Feed Pressure	psig (bar)	73 (5)*	73 (5)*	73 (5)*	73 (5)*	73 (5)*	73 (5.0)*	73 (5.0)*	73 (5.0)*
	Maximum Trans-membrane Pressure	psig (bar)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	30 (2.0)	30 (2.0)	30 (2.0)
	Maximum Backwash Trans-membrane Pressure	psig (bar)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	-	-	-
	Instantaneous Chlorine Tolerance	ppm	100**	100**	100**	100**	100**	5000***	5000***	5000***
	Instantaneous Hydrogen Peroxide Tolerance	ppm	200**	200**	200**	200**	200**	-	-	-
	Maximum Chlorine Exposure	ppm-hours	200000	200000	200000	100000	100000	750000	750000	750000
	Maximum Instantaneous Feed Turbidity	NTU	100	100	100	200	200	300	300	300
	Maximum Operating Temperature	°F (°C)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)
	pH Operating Range		4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0
	Cleaning pH Range		1.5-13.0	1.5-13.0	1.5-13.0	1.5-13.0	1.5-13.0	1.0-3.0	1.0-3.0	1.0-3.0
	Operating Mode		Inside to Outside Filtration Direct Flow or Cross Flow					Outside to Inside Filtration Dead End or Cross flow mode		
Typical Process Conditions	Backwash Flux	$l/m^2/h$	170-255	170-255	170-255	170-255	170-255	-	-	-
	Air Scour Rate[3]	m^3/h	-	-	-	-	-	12.3-15.4	12.3-15.4	12.3-15.4
	Backwash/ Air Scour[3] Duration	seconds	30-60	30-60	30-60	30-60	30-60	120-240	120-240	120-240
	Backwash/ Air Scour[3] Frequency	minutes	20-60	20-60	20-60	20-60	20-60	20-60	20-60	20-60
	Maintenance Clean Frequency	times per day	0 to 4	0 to 4	0 to 4	0 to 4	0 to 4	1 to 3	1 to 3	1 to 3
	Maintenance Clean Duration	minutes	1 to 30	1 to 30	1 to 30	1 to 30	1 to 30	20 to 30	20 to 30	20 to 30
	Disinfection Chemicals		NaOCl, H_2O_2, ClO_2 or NH_2Cl					NaOCl, ClO_2 or NH_2Cl		
	Cleaning Chemicals		NaOH, HCl, H_2SO_4 OR Citric Acid					NaOH, HCl, H_2SO_4 OR Citric Acid		

HYDRANAUTICS
Nitto Group Company

Ultra Filtration Membranes

Features

- Low fouling
- High tolerance to chlorine, peroxide and other oxidants
- Resistance to pH extremes
- Low pressure operation
- Operational flexibility (direct/cross flow filtration)
- Innovative design
- High flux, low pressure operation
- Low energy consumption
- Simple cleaning

Applications

- Drinking water treatment
- Pre-treatment to reverse osmosis and nano filtration
- Desalination pre-treatment
- Industrial process water treatment
- Municipal wastewater

Technical Specifications

Model		HM4040-5	HM8060-25	HM1060-46
Performance	Maximum Initial Permeate Flow, m^3/hr	0.6	3	5.5
	Design Flux, $l/m^2/hr$	40-120	40-120	40-120
	Permeate Water turbidity, NTU	< 1 NTU (when feed water < 70 NTU)	< 1 NTU (when feed water < 70 NTU)	< 1 NTU (when feed water < 70 NTU)
	Permeate Water SDI	< 1 (when feed water < 25 NTU)	< 1 (when feed water < 25 NTU)	< 1 (when feed water < 25 NTU)
	Maximum Continuous Chlorine, mg/l	70	70	70
	Maximum Temporary Chlorine, mg/1	200	200	200
Specification	Dimension, mm	Ø101x 1016	Ø242 x 1400	Ø323 x 1820
	Filter Type	Inside-out hollow fiber	Inside-out hollow fiber	Inside-out hollow fiber
	Membrane Material	PAN alloy	PAN alloy	PAN alloy
	Sealing Material	Food grade epoxy resin	Food grade epoxy resin	Food grade epoxy resin
	MWCO, Dalton	50000	50000	1,00,000
	Membrane Area, m^2	5	25	46
	Filter Number	1100	7300	9800
	Filter ID & OD, mm	1.0/1.6	1.0/1.6	1.0/1.6
	Module Inlet and Outlet	D32/D25	D50/D50	2" Victaulic
	Temperature in Storage & Transportation	20°C-45°C	20°C-45°C	20°C-45°C
	Max Air Pressure testing for Integrity, MPa	<0.2	<0.2	<0.2
Working Condition	Maximum Feed Water Pressure, MPa	0.6	0.6	0.6
	Suggested Trans-Membrane Pressure (TMP), MPa	<0.1	<0.1	<0.1
	Maximum TMP, MPa	<0.2	<0.2	<0.2
	Maximum Backwash TMP, MPa	<0.15	<0.15	<0.15
	Working Temperature	5°C -40°C	5°C -40°C	5°C -40°C
	pH	2-10	2-10	2-10
	Working Process	Cross-flow	Cross-flow	Cross-flow
Recommended Operation	Backwash Flow, m^3/hr	1.2	6	10
	Backwash Pressure, Mpa	0.05-0.1	0.05-0.1	0.05-0.1
	Backwash Time, sec	40-60	40-60	40-60
	Backwash Interval, minute	20-300	20-300	20-300
	Flushing Time, sec	40-60	40-60	40-60
	Flushing Interval, minute	10-300	10-300	10-300
	Chemical Cleaning Interval, day	15-200	15-200	15-200
	Chemical Cleaning time, minute	30-120	30-120	30-120

BURTON+

PAN Alloy Ultra Filtration Membranes

Features

- PAN alloy membranes
- Higher design flux
- High fouling resistance
- Wide range of MWCO
- Cross flow design
- High hydrophilicity
- High chemical & mechanical resistance
- High resistance to organic contamination
- High chlorine tolerance
- Low pressure

Applications

- **Pre-treatment Filtration**
  - Seawater desalination pretreatment
  - Pre-treatment to RO System
  - Pre-treatment to Nano-filtration and Ion Exchange
- **Water Purification**
  - Surface water filtration, e.g. river water, run-off water
  - Municipal / Sewage treatment effluent reclamation
  - Industrial waste treatment effluent reclamation
- **Availiable Models**
  - 4 inch, 8 inch & 10 inch

AVENTURA
Components Are Everything

Technical Specifications

	Model	Units	Burton-P25	Burton-P50	Burton-P80
Fiber Specifications	Category		Hollow Fiber/Outside-In	Hollow Fiber/Outside-In	Hollow Fiber/Outside-In
	Process		TIPS	TIPS	TIPS
	Material		PVDF	PVDF	PVDF
	Nominal Pore Size		0.1 μm	0.1 μm	0.1 μm
	I.D./O.D.	mm/mm	0.7 mm/1.3mm	0.7 mm/1.3mm	0.7 mm/1.3mm
	Burst Pressure	Mpa	1.6 MPa	1.6 MPa	1.6 MPa
Module Specifications	Housing Material		U-PVC/ABS	U-PVC/ABS	U-PVC/ABS
	Potting Material		Epoxy Resin	Epoxy Resin	Epoxy Resin
	Sealing Type		O-Ring/EPDM	O-Ring/EPDM	O-Ring/EPDM
	A/C Port Size		ANSI 2", Coupling	ANSI 2", Coupling	Rp3/8" Female Thread
	B Port Size		JIS40A, Union	JIS40A, Union	ANSI 2", Coupling
	Effective Area	m^2	25m^2	50m^2	80 m^2
	Module Volume (Water)	liters	17 liters	33 liters	55 liters
	Weight (With Water/Empty)	kgs	32/15 Kilograms	55/22 Kilograms	100/45 Kilograms
	Packing Weight	kgs	25 Kilograms	45 Kilograms	72 Kilograms
Applications & Operating Parameters	Temperature Range		1~40°C	1~40°C	1~40°C
	pH Range During Operation		1~11	1~11	1~11
	Max NaClO Tolerance	ppm	5,000 ppm	5,000 ppm	5,000 ppm
	CIP pH Range		1~13	1~13	1~13
	Typical Flux	L/(m2.hr)	40~120 L/(m2.hr)	40~120 L/(m2.hr)	40~120 L/(m2.hr)
	Typical Trans-Membrane Pressure	Mpa	0.02~0.15 Mpa	0.02~0.15 Mpa	0.02~0.15 Mpa
	Typical Backwash Flux	L/(m2.hr)	50~120 L/(m2.hr)	50~120 L/(m2.hr)	50~120 L/(m2.hr)
	Typical Air Scour Capacity		5~12 Nm3/(h.module)	5~12 Nm3/(h.module)	5~12 Nm3/(h.module)
	Max Air Inlet Pressure	Mpa	0.25 Mpa	0.25 Mpa	0.25 Mpa
	Max Feed Pressure	Mpa	0.3 Mpa	0.3 Mpa	0.3 Mpa
	Max Trans-Membrane Pressure	Mpa	0.3 Mpa	0.3 Mpa	0.3 Mpa
	Max Backwash Pressure	Mpa	0.25 Mpa	0.25 Mpa	0.25 Mpa
	Typical Filtered Water Capacity		1.0 ~ 3.0 m3/(h.module)	2.0 ~ 6.0 m3/(h.module)	3.2 ~ 9.6 m3/(h.module)
	Turbidity of Filtered Water		≤ 0.1 NTU	≤ 0.1 NTU	≤ 0.1 NTU
	Filtered Water SDI15		≤ 3.0	≤ 3.0	≤ 3.0
	E. Coli Removal		Not detected in per 100ml sampling	Not detected in per 100ml sampling	Not detected in per 100ml sampling
	Total Bacterial Count		<3 (CFU/ml)	<3 (CFU/ml)	<3 (CFU/ml)

User Information

- Proper start-up is crucial for the normal operation of the product. User needs to calibrate the equipment and instrumentation's and check raw water quality before the operation to ensure all the parameters have reached the predetermined or required level during commissioning or after long-term shutdown
- The product should not be frozen or exposed to sunlight for long time under any circumstances as it would cause irreversible damage to the product. Anti-freezing solution needs to be used, if necessary to ensure transportation safety in harsh weather conditions
- Users should follow each step and procedure on user's manual, any unauthorised design or improper use without written consent of Aventura Components Pvt. Ltd. would invalidate the warranty
- In case of poor water quality, the flow to be treated, should be increased slowly to match the setting. We suggest 50% of the designed capacity and 2-24 hours operation initially, in particular for wastewater treatment
- For further information, please refer to User's Manual

Burton+ PVDF Ultrafiltration Membrane

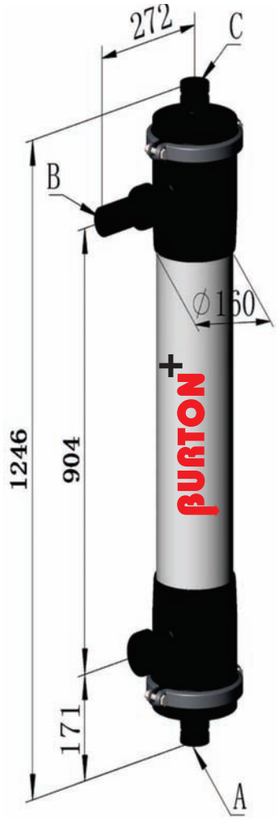
Burton+ P25, P50, P80

Features

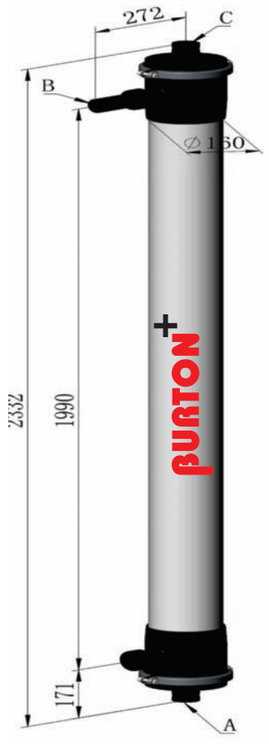
- Characters of high mechanical strength and double layer potting ensures a variety of extreme physical cleaning high system recovery, OPEX
- Allowed extreme pH range (1-13) & 5,000mg/ l of NaOcL during CIP ensures high restorability and long-operating life
- 0.1μm nominal pore size distributed in uniform and homogeneous fiber ensure high rejection on particles, bacteria, colloid & virus
- Innovation of permanent hydrophilic technology ensures high permeability
- Outside-in filtration configuration, TIPS PVDF hollow capillary fibers, accommodates challenging feed water quality

Applications

- Wastewater treatment in Iron & Steel, Power, Petrochemical, Chemical, Paper, Textile Dyeing & Printing, Food & Beverages Industries
- Municipal, Commercial, Residential Building, Sewage Treatment, Water reuse
- Surface water treatment
- Ground water treatment
- Sea Water Desalination



Burton+ P25



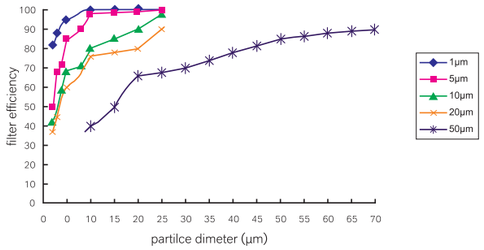
Burton+ P50

Burton+ P80

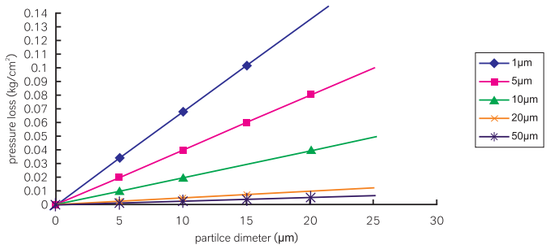
Technical Specification

- Inside diameter (mm) : 20, 25, 28, 38 mm
- Outside diameter (mm) : 35-120 mm
- Length : Free
- Nominal Precision(Micron) : 0.5 - 100pm

Filter Efficiency



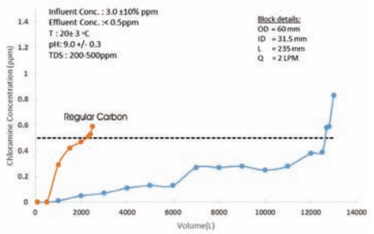
Pressure Loss



Technical Specifications

Fully finished AV- CLGuard carbon block filter cartridges compatible with industry standard 10 inch and 20 inch open sump housings include:

Part Number	Part Name	OD x Length	Micron Rating (nominal)	Chloramine Reduction Capacity
FEAA0416	AV10CHLORA	2 ¾ " x 9 ¾ " (70mm x 248mm)	1 micron	> 3,400 gallons @ 0.5 gallons per minute > 12,920 litres @ 1.9 litres per minute
FEAA0417	AV10CHLORA-TW	2 ¾ " x 9 ¾ " (70mm x 248mm)	1 micron	> 4,200 gallons @ 0.5 gallons per minute > 15,960 litres @ 1.9 litres per minute
FEAA0418	AV20CHLORA	2 ¾ " x 20 " (70mm x 508mm)	1 micron	> 4,000 gallons @ 1 gallon per minute > 15,200 litres @ 3.8 litres per minute
FEAA0419	AVB10CHLORA	4 ½ " x 9 ¾ " (114mm x 248mm)	1 micron	> 4,600 gallons @ 2 gallons per minute > 17,480 litres @ 7.6 litres per minute
FEAA0420	AVB20CHLORA	4 ½ " x 20 " (114mm x 508mm)	1 micron	> 10,000 gallons @ 3 gallons per minute > 38,000 litres @ 11.4 litres per minute



Technical Specifications

Fully finished AV- CTO carbon block filter cartridges compatible with industry standard 10 inch and 20 inch open sump housings include:

Part Number	Part Name	OD x Length	Micron Rating (nominal)	Chlorine Taste and Odour Reduction Capacity
FEAA0401	AV10CL2	2 ¾ " x 9 ¾ " (70mm x 248mm)	10 microns	> 8,000 gallons @ 1gpm > 30,000 litres @ 3.8 l/min
FEAA0407	AV20CL2	2 ¾ " x 20 " (70mm x 508mm)	10 microns	> 16,000 gallons @ 2gpm > 60,000 litres @ 7.6 l/min
FEAA0423	AVB10CL2	4 ½ " x 9 ¾ " (114mm x 248mm)	10 microns	> 16,000 gallons @ 3gpm > 60,000 litres @ 11.4 l/min
FEAA0412	AVB20CL2	(4 ½ " x 20 " (114mm x 508mm)	10 microns	> 34,000 gallons @ 7gpm > 129,000 litres @ 26.6 l/min

BURTON

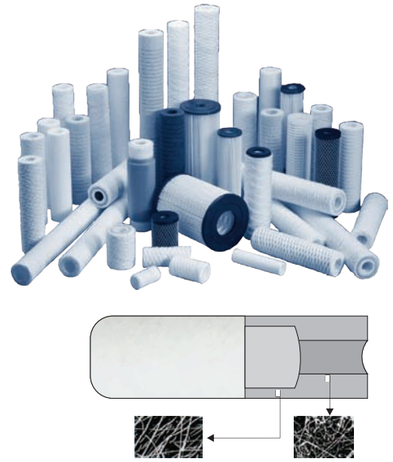
Filter Cartridges

Description

Burton filter cartridge has radial fibers which distribute gradiently, and gradually becomes loose from inside to outside or from outside to inside. The outside layer is coarse, providing enough dirty-absorbent, reducing the filter resistance, ensuring enough rigid structure. The inside layer is fine, which provides finer particles filtration.

Benefits

- Adaptability mildew resistance, acid, alkali, organic or inorganic solvent resistance
- High Filtration Efficiency
- Small Pressure Lose & Stable Filter Efficiency
- Long Service Life & Low Filter
- High quality polypropylene for outmost safety



Coarse outside layer provides enough dirty-absorbent space, reduces filter resistance and provides enough structure rigidity.

Fine inside layer intercepts small particulate, assuring the filter precision.

BURTON

Activated Carbon Block Cartridge

AC - CLGuard

Burton AV - CLGuard catalytic activated carbon is made from 100% coconut shell carbon, a renewable, ecologically sustainable material. The carbon receives a proprietary surface treatment to give it EPC (Enhanced Physisorption and Chemisorption) characteristics. It is then processed into blocks using a unique binder system and proprietary manufacturing techniques, to produce filters with a greater number of micro-pores, which display superior.

AV - CLGuard catalytic activated carbon, available in both block and granular form, has been specially formulated to reduce chloramine. It is suitable for a wide range of commercial and industrial applications.

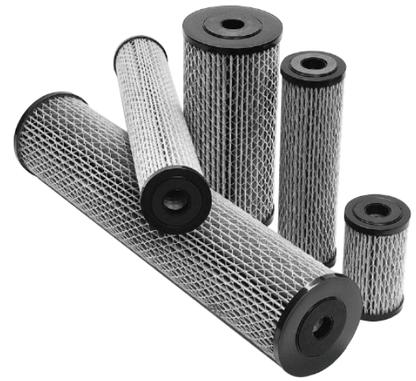
Features

- 1 micron nominal filtration
- Exceptionally low pressure drop
- High dirt holding capacity
- Excellent chemical contaminant reduction
- Enhanced chloramine reduction (5 times more effective than standard activated carbon)
- Enhanced chlorine reduction (2 times more effective than standard activated carbon)

AC - CTO Features

- 10 micron nominal filtration
- Exceptionally low pressure drop
- High dirt holding capacity
- Excellent chemical contaminant reduction

Activated Carbon Block filter is manufactured as per ISO 9001, 14001 & NSF Standard



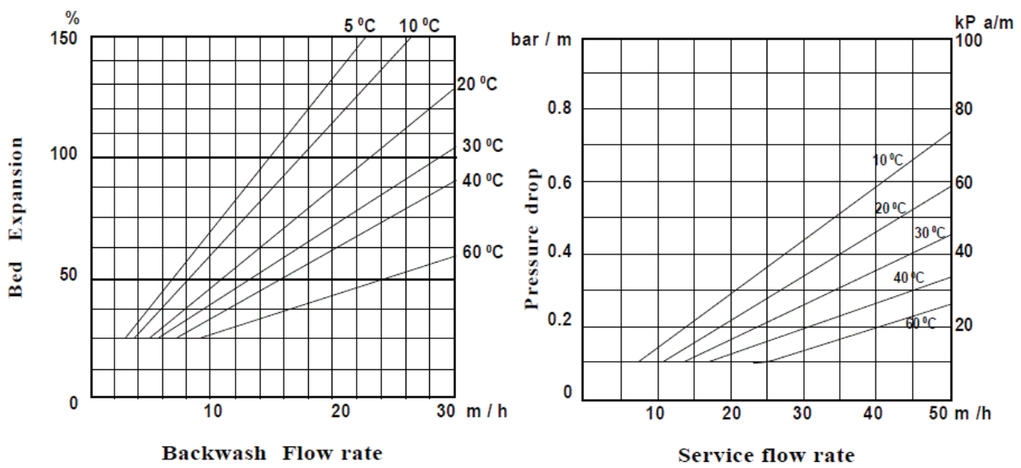
Properties	
Matrix Functional groups	**Styrene divinylbenzene Co-polymer**
Physical form	Sulphonates
Ionic form as supplied	Amber beads
Total exchange capacity	Minimum 1.85 eq/l (Na+ form)
Specific Gravity	1.25 (Na+ form)
Packing density	750 -800 gm/l
Particle size	0.3–1.2mm
Operating pH range	0-14
Chemical stability	Insoluble in dilute acids or bases and common solvents

Suggested Operating Conditions	
Bed Depth	700 – 2000 mm
Specific Flow rate	5- 45 BV/h
Linear velocity	5 - 45 m/h
Regenerant	NaCl
Regeneration Level	50 to 250 kg NaCl/m^3 of Resin
Regenerant Flow rate	3 to 8 BV/h
Regenerant Concentration	8-12%
Contact Time	25 - 30 Min
Slow and Fast Rinse	Min 2 BV at regeneration flow rate

Performance

The operating capacity of the softening method depends on several factors. Water analysis and level of regeneration are key factors affecting the process of water treatment.

Figure 1 shows the bed expansion of Axion C220 Na as a function of backwash flowrate and temperature
Figure 2 shows the pressure drop for standard Axion C220Na as a function of service flow rate and water temperature. Pressure drop data are valid at the start of the service run with a clear water influent and correctly classified bed.



axion C220NA

Ion Exchange Resins
Efficient Water Softening

Description

Axion C220Na, Strong Acid Cation resin in its Na form can be used for softening applications. Axion offers excellent physical, chemical and thermal stability and has good ion exchange kinetics. Axion resin's durable bead strength facilitates more regeneration cycles.

Features

- Good chemical, thermal and physical stability
- High exchange capacity
- High operating temperature of 120°C

Applications

The Axion C220Na range of resins is used to produce softened water for Cooling Water Treatment, Process Water, and Pretreatment to RO to reduce hardness and more.

Industry Focus

- Textiles
- Food & Beverages
- Pharmaceuticals
- Chemicals
- Electronics
- Automobiles
- Hospitality

Technical Specifications

Product Code	Pressure [bar]	Flow Rate [ltr/h]	Frequency [stroke max/min]	Stroke Capacity [cc/stroke]	Ø Connections In/Out [mm]	Power Consump-tion [W]
500	20 16 10 6	0.4 0.8 1.2 1.5	120	0.6 0.11 0.17 0.21	4/6 suc. 4/6 suc. 4/7 suc. 4/7 suc.	12,2
600	20 18	2.5 3	120	0,35 0,41	4/6 suc. 4/7 dis.	12,0
603	12 10 8 2	4 5 6 8	160	0,42 0,52 0,63 0,83	4/6	12,2
800	12 10 5 1	7 10 15 18	320	0,36 0,52 0,78 0,94	4/6	23,9
803	5 4 2 1	20 25 40 54	300	1,11 1,39 2,22 3	8/12	22,2

Product Range

TEKNA EVO: Analog Range	AKL Constant Dosage	APG Proportional Dosage	ATL Timed Dosage
	• Constant flow rate manually adjustable • Dual frequency range (0÷20% or 0÷100%) • Power-on LED Indicator • Inbuilt level sensor which trips the pump in case of low level in dosing tank	• Constant flow rate manually adjustable • Proportional flow rate according to an external analog (4÷20 mA) or digital pulse signal • Control dial (percentage & "n" value in multiplication mode) • 'Pacing' function adjustable by dip switch	• Constant flow rate manually adjustable • Timed dosage with on & off double regulation • 3 control dials
TEKNA EVO: Digital Range	**TPG Proportional Dosage**	**TPR Proportional Dosage**	**TCK Timed Dosage**
	• Constant flow rate manually adjustable • Proportional flow rate according to an external analog (4÷20 mA) or digital pulse signal • Timer function, ppm dosing, performance reports, password protection and On/Off input (remote switch)	• Built in pH/Redox control meter • Digital interface for constant or proportional dosing, depending on the measured pH or Rx value • PT100 probe input for thermal compensation • Repetition Alarm Relay • Input On-Off for remote control • 4÷20 mA output signal	• Constant flow rate manually adjustable • Timer control • Programmable timed relay • Extreme versatile for all timed dosing application • Autocalibration

AVENTURA
Components Are Everything

Electronic Dosing Pumps

Design Features

- Robust & Versatile
- Compatibility
- Inventory Reduction
- Reliable
- Steady Dosing Performance
- Easy To Install

Industry Focus

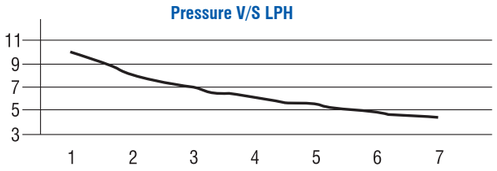
- System Integrators
- Pharmaceuticals
- Electronics
- Automobiles
- Food & Beverages
- Chemicals
- Textiles
- Hospitality

DOSING PUMPS

Technical Specifications

MECHANICAL	Dosing Capacity @ 4Kg/Cm²	LPH	6
	Max. Operating Pressure	Kg/Cm²	7
	Max. Stroke Frequency	strokes/min	400
	Stroke Volume @ 4Kg/Cm²	ml	0.25
Electrical	Voltage	V	230 (+/- 10%)
	Length of main cable	m 2	2
	Max. power consumption	W	30
	Enclosure class	-	2
	Electric safety class	-	2
	Pollution degree	-	3
Sound	Max. sound pressure level	dB	< 80
MOC	Pump Head	PLASTICS	GF PP
	Diaphragm		PTFE
	Connectors		GF PP
	Suction/Discharge Tubing		HDPE
	Plunger	METALS	SS-304
	Copper		Class-H

Flow Characteristcs



Pressure (Kg/cm²)	LPH
0	20
1	10
2	8
3	7
4	6
5	5.5
6	5
7	4.5

0 Kg/Cm²- No Injection Valve

nuton
MICRO DOSING

Nuton Dosing Pump

Features

- Auto resetting fuse
- Double ball NRV with PTFE seals
- Splash proof enclosure
- Built in air release valve
- PTFE diaphragm for longer life
- Adjustable frequency (upto 400 spm)
- Compact and lightweight

Optional Advanced Features

- Level switch interlock
- External fault relay output
- 4 to 20 mA input
- Pulse input facility

Nuton Dosing Pump

Technical Specification

- Level Switch Interlock
- 4 to 20 mA output
- Pulse Input
- Relay Output

nuton
SMART DOSING

Nuton Dosing Pump

Features

- Backlit LCD Display
- User friendly knob linked with digital display for adjusting dosing frequency
- Dosing head conveniently located next to front controls for easy maintenance access.
- Built-in ARV with separate discharge point to prevent chemical spill on hands
- Double ball NRV
- Diaphragm made of solid PTFE to ensure maximum life
- Batch and Interval dosing features

Product Information

Model	Piston Diameter	Strokes/min	Flow Rate (l/H)	Max Pressure				Connection		3 phases Motor (kw)
				BAR		PSI				
				SS 316	PVC	SS 316	PVC	SS 316	PVC	
PS1D006A PS1D006B PS1D006C	6	58 78 116	1,5 2 3	20	10	290	145	1/4 g f	1/4 g f	0,18
PS1D011A PS1D011B PS1D011C	11	58 78 116	5 6,5 10	20	10	290	145	1/4 g f	1/4 g f	0,18
PS1D017A PS1D017B PS1D017C	17	58 78 116	11 15 22	20	10	290	145	3/8 g f	3/8 g f	0,18
PS1D025A PS1D025B PS1D025C	25	58 78 116	25 32 50	20	10	290	145	3/8 g f	3/8 g f	0,18
PS1D030A PS1D030B PS1D030C	30	58 78 116	35 45 70	20	10	290	145	3/8 g f	3/8 g f	0,25
PS1D038A PS1D038B PS1D038C	38	58 78 116	55 73 110	17	10	246,5	145	3/8 g f	3/8 g f	0,25
PS1D048A PS1D048B PS1D048C	48	58 78 116	85 114 170	10	10	145	145	1/2 g f	1/2 g f	0,25
PS1D054A PS1D054B PS1D054C	54	58 78 116	110 145 220	8	8	116	116	1/2 g f	1/2 g f	0,25
PS1D064A PS1D064B PS1D064C	64	58 78 116	152 204 304	6	4	87	58	3/4 g f	3/4 g f	0,25

AVENTURA Components Are Everything

Plunger piston Metering pumps - PS1 Series

Technical Specification

Capacity From 1,5 to 304 L/h
Max Pressure 20 BAR
Stroke Rate 58 • 78 • 116 strokes/minute
Piston Diameter From 6 to 64 mm
Motor Standard 0,18 and 0,25 Kw (IP 55)
Stroke Length 15 mm

Product Information

Model	Piston Diamete	Strokes/min	Flow Rate (l/H)	Max Pressure				Connection		3 phases Motor (kw)
				BAR		PSI				
				SS 316	PVC	SS 316	PVC	SS 316	PVC	
PS2E025A PS2E025B PS2E025C	25	58 78 116	40 53 80	20	10	290	145	3/8 g f	3/8 g f	0,25
PS2E030A PS2E030B PS2E030C	30	58 78 116	55 75 112	20	10	290	145	3/8 g f	3/8 g f	0,25
PS2E038A PS2E038B PS2E038C	38	58 78 116	90 120 180	20	10	290	145	1/2 g f	3/8 g f	0,37
PS2E048A PS2E048B PS2E048C	48	58 78 116	140 190 284	20	10	290	145	1/2 g f	1/2 g f	0.55
PS2E054A PS2E054B PS2E054C	54	58 78 116	180 242 365	15	10	217,5	145	1/2 g f	1/2 g f	0.55
PS2E064A PS2E064B PS2E064C	64	58 78 116	250 335 505	10	10	145	145	3/4 g f	3/4 g f	0,75
PS2E076A PS2E076B PS2E076C	76	58 78 116	365 485 730	7	7	101,5	101,5	1 g f	1 g f	0,75
PS2E089A PS2E089B PS2E089	89	58 78 116	495 660 1000	5	5	72,5	72,5	1 g f	1 g f	0,75

PS2 Series

Technical Specification PS2 Series

Capacity From 40 to 1000 L/h
Max Pressure 20 BAR
Stroke Rate 58 • 78 • 116 strokes/minute
Piston Diameter From 25 to 89 mm
Motor Standard 0,25 • 0,37 • 0,55 • 0,75 Kw (IP 55)
Stroke Length 25 mm

Product Information

Model	Piston Diameter [mm]	Stroke/ min	Flow Rate (l/H)		Max Back Pressure		Suction/Discharge Connection		Electric Motor 50Hz 3 phases [kW]
			l/h	gl/h	bar	psa	SS 316	PP/PVC	
MS0A050E	50	41	15	3.97	5	72.5	1/2" G M	3/4" G M (1/2 G M)	0.09 (F4)
MS0A050A		58	20	5.29					
MS0A050F		82	30	7.94					
MS0A050C		116	42	11.11					
MS0A050G		164	60	15.87					

Product Information

Model	Diaphragm Diameter	Strokes/min	Flow Rate		Max Pressure				Connection		3 phases Motor (kw)
					BAR		PSI				
			(l/h)	(gl/h)	SS 316	PP	SS 316	PP	SS 316	PP	
MS1A064A	64	58	5.5	1.45	10	10	145	145	1/4" G F	1/4" G F	0.18 (A4)
MS1A064B		78	8	2.12							
MS1A064C		116	11	2.91							
MS1A094A	94	58	20	5.59	10	10	145	145	3/8" G F	1/4" G F	0.25 (B4)
MS1A094B		78	26	6.88							
MS1A094C		116	40	10.58							
MS1B108A	108	58	60	15.87	10	10	145	145	3/8" G F	3/8" G F	0.37 (C4)
MS1B108B		78	80	21.16							
MS1B108C		116	120	31.75							
MS1C138A	138	58	155	41	7	7	101.5	101.5	3/4" G F	3/4" G F	0.37 (C4)
MS1C138B		78	220	58.2							
MS1C138C		116	310	82					1" G F	1" G F	
MS1C165A	165	58	230	60.85	5	5	72.5	72.5	1" G F	1" G F	0.37 (C4)
MS1C165B		78	330	87.30							
MS1C165C		116	500	132.3	3	3	43.5	43.5			

Product Information

Model	Piston Diameter [mm]	Stroke/ min	Flow Rate (l/H)		Max Back Pressure				Suction/Discharge Connection	Electric Motor 50Hz 3 phases [kW]
					bar		p.s.i			
			l/h	gl/h	SS 316	PP PVC/PVDF	SS 316	PP PVC/PVDF		
MS3C165H	165	156	660	174	4	4	58	58	1" G F	0.75 (Q4)

Product Information

Model	Diaphragm Diameter [mm]	Stroke/ min	Flow Rate (l/H)		Max Back Pressure				Suction/Discharge Connection	Electric Motor 50Hz 3 phases [kW]
					bar		p.s.i			
			l/h	gl/h	SS 316	PP PVC/PVDF	SS 316	PP PVC/PVDF		
MS4G210C	210	116	2000	526	4	4	58	58	DN50-PN10 RF	1.1 (Q4)
MS4G210L		93	1600	421						
MS4H210C		116	1000	263						
MS4H210L		93	800	211						

AVENTURA
Components Are Everything

seko

Mechanical Diaphragm Metering Pumps

MS0 Series - Technical Specification

Capacity From 15 to 60 L/h
Max Pressure 5 BAR
Stroke Rate 41 • 58 • 82 • 116 strokes/minute
Diaphragm Diameter 50 mm
Motor Standard 0.09 kW (IP55)
Stroke Length 2 mm

MS1 Series - Technical Specification

Capacity From 5.5 to 500 L/h
Max Pressure 10 BAR
Stroke Rate 58 • 78 • 116 strokes/minute
Diaphragm Diameter From 64 to 165 mm
Motor Standard 0.18 • 0.25 • 0.37 kW • 0.55 kW (IP 55)
Stroke Length 2 mm • 4 mm • 6 mm

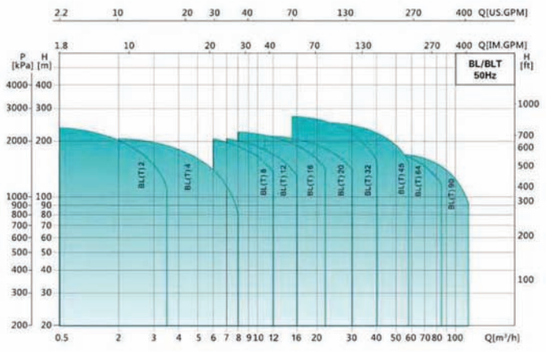
MS3 Series - Technical Specification

Capacity From 660 L/h
Max Pressure 4 BAR
Stroke Rate 156 strokes/minute
Diaphragm Diameter 165 mm
Motor Standard 0.75 kW (IP55)
Stroke Length 6 mm

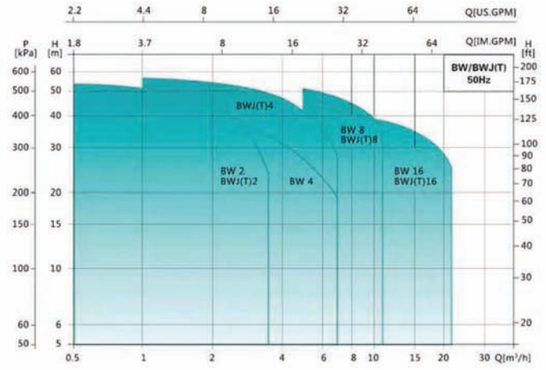
MS4 Series - Technical Specification

Capacity From 800 to 2000 L/h
Max Pressure 4 BAR
Stroke Rate 93/116 strokes/minute
Diaphragm Diameter 210 mm
Motor Standard 1.1 kW - 3 ph (IP55)
Stroke Length 10/20 mm

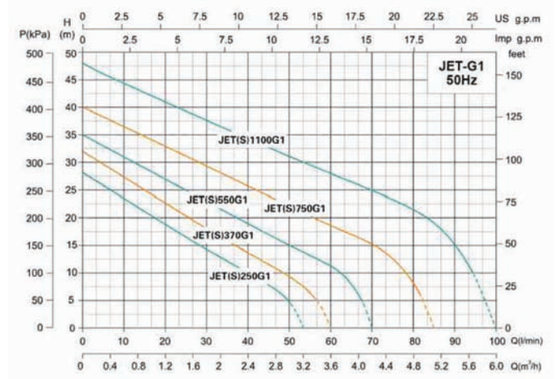
Performance Range - Vertical Multi-Stage Centrifugal Pumps



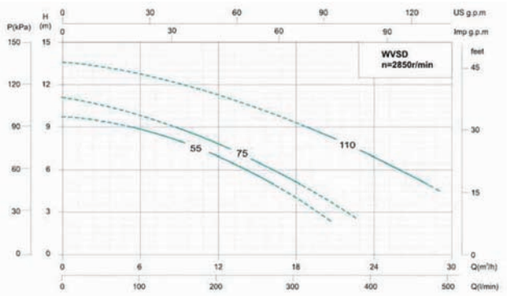
Performance Range - Horizontal Multi-Stage Centrifugal Pumps



Performance Curve - Mono Block JET-G1



Performance Curve - Submersible Sewage Pumps



ADELINO PUMP

ADELINO
WATER PUMPS

Vertical Multi-Stage Centrifugal Pumps

Application Limits

- Medium temperature:
  • Normal type: 0°C~68°C • Hot water type: 0°C~120°C
- Ambient temperature: +40°C
- Max ambient pressure: 1.0MPa,
- pH: 5 to 8
- Maximum head : 280m
- Maximum flow : 110m³/h
- Advisable to use motor of higher power in case that the density or viscosity of medium is above that of water

BL BL BLT BL

Horizontal Multi-Stage Centrifugal Pumps

Application Limits

- Temperature range of medium:
  • Normal type: 0°C+68°C • Hot water type: 0°C+120°C
- Maximum ambient temperature: +40 °C
- Maximum working pressure: 10 bar
- When the density or viscosity of the transmission medium exceeds that of water, it is necessary to select a drving motor of high-power.
- pH: 5 to 8

BWJ

BW

Mono Block JET-G1

Application Limits

- Suction head up to 9m
- Liquid temperature up to +40°C
- Ambient temperature up to +40°C
- Max. Working pressure: 6bar
- Voltage fluctuation should not exceed 10% of rated value.
- pH: 6.5 to 8.5

Advantages & Features

- 304 stainless steel pressed tensile pump body & pump cover
- Hydraulic optimization design, excellent performance
- Nozzle, guide vane and the impeller PPO engineering plastics
- Products are complete in specifications, meet drinking water standards

JET-G1

Submersible Sewage Pumps

Application Limits

- Maximum liquid temperature +40°C
- pH level from 4-10
- Maximum liquid density 1.2×103 kg/m³
- Power frequency is 50Hz. Nominal voltage is 220VAC for single-phase and 380VAC with tolerance of ±10%.
- Immersion depth from 0.5m-5m
- Maximum head :15m
- Maximum flow :27m³/h;

Advantages & Features

- Stainless steel casing and rod bolts, beautiful, durable and stable.
- Opening impeller with good flow ability
- The stainless steel shaft extension, carbide double sides mechanical sealing.

* Availbale in SS 316 also

WVSD

Technical Information

Model		Units	ESPA-50	ESPA-75
Specification	Permeate Flow	gpd (m^3/d)	50 (0.19)	75 (0.28)
	Salt Rejection	%	99.0	98.0
Type	Configuration		Spiral Wound	Spiral Wound
	Membrane Material		Composite Polyamide	Composite Polyamide
Application Limits*	Maximum Applied Pressure	psig (MPa)	300 (2.1)	300 (2.1)
	Maximum Chlorine Concentration	ppm	< 0.1	< 0.1
	Maximum Operating Temperature	˚F (˚C)	113 (45)	113 (45)
	pH range, continuous cleaning		3.0-10.0*	3.0-10.0*
	Maximum Feedwater Turbidity	NTU	1.0	1.0
	Maximum feedwater SDI (15 mins)		4.0	4.0
	Maximum Feed Flow	gpm (l/m)	3.0 (11)	3.0 (11)
	Maximum Pressure Drop for each element	psi	10	10

Test Conditions

Elements are wet tested for quality assurance using the following conditions: (Data taken after 30 minutes of operation)

- 500 ppm Softened Tap Water
- 65 psi (0.45 MPa) Applied Pressure
- 77°F (25°C) Operating Temperature
- 15% Permeate Recovery
- 6.5 – 7.0 pH Range

Note:

Minimum permeate flow for individual elements is 20 percent below listed flow. All membrane elements are supplied with a brine seal and o-rings. Most elements are packaged dry, sealed in polyethylene bags, and shipped in a cardboard box. Some elements are sealed in polyethylene bags containing less than 1.0% sodium meta-bisulfite solution and shipped in a cardboard box

HYDRANAUTICS
Nitto Group Company

NSF

Residential Reverse Osmosis Membranes

Description

Hydranautics is one of the global leaders and a trusted brand in the field of membrane technology. Marketed by the authorized partner Aventura, the superior class membranes ensure safe quality of water for drinking and other domestic consumption purposes.

Features

- HYDRAblock® Antibacterial Technology, NSF approved for Potable Water
- Dry composite polyamide reverse osmosis membrane
- LD technology inside to prevent biological and colloidal fouling
- Higher resistance to bio-fouling
- High salt rejection Membrane
- High permeability Membrane

Applications

The Hydranautics membranes are used for domestic drinking water treatment applications.

RESIDENTIAL PRODUCT RANGE

Technical Information

Application limits	Permeate Flow (gpd)	75	100
	Salt Rejection (%)	96	96
	Membrane Type	Polyamide Thin-Film	Polyamide Thin-Film
	Maximum Operating Temperature	113°F/45°C	113°F/45°C
	Maximum Operating Pressure	300psi (21 bar)	300psi (21 bar)
	pH range, Continuous Operation	2 – 11	2 – 11
	pH range, Short-Term Cleaning (30 min)	1 – 12	1 – 12
	Maximum Feed Silt Density Index (SDI)	5	5
	Free chlorine Tolerance	< 0.1 ppm	< 0.1 ppm

Test Conditions

The stated performance is for the initial data taken after 30 minutes of operation, based on the following testing conditions:

- 250ppm NaCl solution
- 60psi Applied Pressure
- 77°F(25°C)Operating Temperature

Note

1. The first full tank of permeate must be discarded. Do not use this initial permeate for drinking water or food preparation.
2. Keep elements moist at all times after initial wetting.
3. Ensure the limits and guidelines given above are followed.
4. To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservations solution. Rinse out the preservative before use.

BURTON+

Residential Reverse Osmosis Membranes

Description

Burton+ Residential Reverse Osmosis (RO) membrane elements for residential drinking water treatment are few of the most reliable and consistent products in the industry. The elements are uniquely engineered for high level of salt rejection while maintaining high water flux.

Features

- High level of salt rejection
- Reliable & consistent performance
- Well-controlled element rolling
- Dry membranes with enhanced shelf-life
- Stable performance
- High water flux
- Complies to NSF standards

Applications

Domestic drinking water treatment applications

AVENTURA Components Are Everything

Domestic RO Booster Pumps

Details	75GPD	100GPD
Rated Voltage	24VDC	24VDC
Working Pressure	80psi	80psi
Rated Current	0.8A	0.9A
Maximum Pressure	135psi	140psi
Protection	IP54	IP54
Maximum Flow	48LPH	72LPH

Advantages

- It can work at any place, even if we don't have municipal water
- It can work with at high TDS membrane
- The flow is 10% higher than the same capacity pump of other brand

In-line Sediment Cartridge Filter

Model No	Length	Dia.	Length	Connection
Aven-1	5 μ	2"	10"	¼" Quick Conect

In-line Carbon Filters

Model No	Length	Dia.	Connection
Aven-2	10"	2"	¼" Quick Conect

Specifications of carbon:

Base : Coconut Shell Charcoal
Grade : NC-50
CTC : Min 50
Mesh : 12x30 BSS
Iodine : 600 mg/gm
Ash : Max 3%
Moisture : Max 5%
Hardness : 98% Min
pH : Alkaline

nuton BOOSTER PUMPS

Domestic RO Booster Pumps

Description

Nuton RO Booster Pump can be used with the Reverse Osmosis systems for 75 GPD/100 GPD to provide increased pressure to the inlet of the system for increased production. These RO Booster Pumps are used for increasing the incoming water pressure of the RO system.

75 GPD/ 100 GPD

Features

- Easy handling & operations
- Longer functional life
- Self Suction
- Low energy consumption
- Cost effective
- Less Noise and Heating
- Using Special Glue between the pushing and bearing
- Better Quality provided by diaphragm and pump sealing

BURTON+

In-line Sediment Cartridge Filter

Description

Sediment Filters removes dirt, sand, rust, grit, and other suspended matter from water. It can be used with most standard in-line cartridge filter as replacements in existing systems or assemblies.

Features

- Protect downstream equipment and appliances
- Removes dirt, rust, sand, grit and other suspended solids from water
- Enhanced dirt-holding capacity for extended life
- Easy and safe cartridge incineration and disposal

In-line Carbon Filters

Description

Activated Carbon Filters are used as pre filtration to remove chlorine, organics, color, tannin / objectionable tastes and odors from water. Silver Impregnated Carbon filter is used as a post carbon to enhance taste of water.

Features

- Inline installation eliminates is the need for additional housings
- Coconut shell based carbon is ideal for use as a post/polishing filter
- Quick connect style filters connect directly to tubing, eliminating the need for additional fittings
- Free of surfactants, binders, and adhesives

Product Details

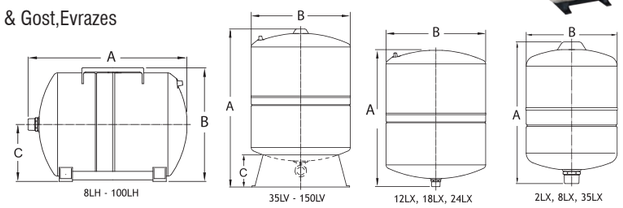
BSP		Nominal Volume		Shipping (Box) Volume		Shipping (Box) Weight		Dimensions							
								A		B		C			
Old Part Number	New Part Number	liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	Inches	cm	Inches
PWB2	PWB -2LX	2.00	0.50	0.06	2.12	13.60	29.98	20.90	8.23	12.60	4.96	-	-		
PWB4	PWB -4LX	4.00	1.10	0.01	0.35	1.71	3.77	26.10	10.28	16.20	6.38	-	-		
PWB8	PWB -8LX	8.00	2.10	0.01	0.49	2.40	5.29	31.30	33.60	20.20	7.95	-	-		
PWB12	PWB -12LX	12.00	3.20	0.02	0.81	3.10	6.83	36.50	14.37	23.00	9.06	-	-		
PWB18	PWB -18LX	18.00	4.80	0.03	1.06	4.10	9.04	36.70	14.45	27.90	10.98	-	-		
PWB24	PWB -24LX	24.00	6.30	0.04	1.48	5.00	11.00	44.70	17.60	29.00	11.42	-	-		
PWB35	PWB -35LX	35.00	9.30	0.06	1.98	7.00	15.43	48.10	18.90	31.80	12.52	-	-		
Horizontal Models															
PWB8H	PWB -8LH	8.00	2.10	0.01	0.46	2.46	5.42	31.30	12.32	23.20	9.13	11.60	4.57		
PWB12H	PWB -12LH	12.00	3.20	0.02	0.85	3.25	7.17	36.50	14.37	26.00	10.24	13.00	5.12		
PWB20H	PWB -20LH	20.00	5.30	0.04	1.41	5.00	11.02	44.70	17.60	29.40	11.57	14.70	5.79		
PWB24H	PWB -24LH	24.00	6.30	0.05	1.65	5.90	13.01	44.70	17.60	32.10	12.64	16.10	6.34		
PWB35H	PWB -35LH	35.00	9.30	0.06	2.15	8.20	18.08	48.10	18.94	35.30	13.90	17.90	7.05		
PWB60H	PWB -60LH	60.00	15.90	0.09	3.18	11.40	25.13	53.00	20.87	42.40	16.69	21.50	8.46		
PWB80H	PWB -80LH	80.00	21.10	0.13	4.59	16.10	35.49	72.60	28.58	42.40	16.69	21.50	8.46		
PWB100H	PWB -100LH	100.00	26.40	0.16	5.65	19.20	42.33	72.00	28.35	47.50	18.70	24.50	9.65		
Vertical Models w/base															
PWB35V	PWB -35LV	35.00	9.30	0.06	2.22	7.80	17.20	55.50	21.85	31.80	12.52	12.00	4.72		
PWB60V	PWB -60LV	60.00	15.90	0.10	3.46	11.80	26.01	62.00	24.41	38.90	15.31	12.70	5.00		
PWB80V	PWB -80LV	80.00	21.10	0.13	4.59	16.20	35.71	81.50	32.09	38.90	15.31	12.70	5.00		
PWB100V	PWB -100LV	100.00	26.40	0.16	5.65	19.10	42.11	80.40	31.65	43.00	16.93	12.90	5.08		
PWB150V	PWB -150LV	150.00	40.00	0.21	7.42	26.70	58.86	81.80	32.80	53.00	20.87	13.85	5.45		

AVENTURA
Components Are Everything

Pressure Wave™ Series

Design Features

- Single diaphragm design
- NSF Standard 61, CE/PED, WRAS, ACS, Evrazes, ISO:9001 & Gost,Evrazes
- Patented stainless steel water connection
- Virgin polypropylene liner
- Two part polyurethane, epoxy primed paint finish
- Leak free O-ring sealed air valve cap
- Comprehensive testing
- Low on maintenance
- Maximum working tempreture 90°C
- Maximum working pressure 10 Bar



ISO:9001 ACS WRAS

Applications

PressureWave™ tanks are ideally suited for a wide range of applications including:

- Booster systems
- Thermal expansion
- Irrigation systems
- Hydraulic hammer arresting
- Fire Fighting

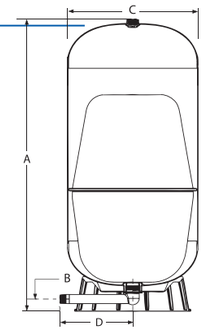
Product Details

BSP		Nominal Volume		Shipping (Box) Volume		Shipping (Box) Weight		Dimensions							
								A		B		C		D	
Old Part Number	New Part Number	liters	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	Inches	cm	Inches
C2B-60	C2B-60LV	60	15	0.13	4.44	8.6	19.0	64.90	25.6	4.5	1.8	41.8	16.6	23.88	9.40
C2B-80	C2B-80LV	80	20	0.16	5.79	10.9	24.0	85.20	34.1	4.5	1.8	41.8	16.6	23.88	9.40
C2B-100	C2B-100LV	100	25	0.19	6.66	12.7	28.0	96.70	38.6	4.5	1.8	41.8	16.6	23.88	9.40
C2B-130	C2B-130LV	130	35	0.23	8.26	15.2	33.5	122.70	48.9	4.5	1.8	41.8	16.6	23.88	9.40
C2B-200	C2B-200LV	200	50	0.35	12.24	20.2	44.5	109.80	43.3	5.7	2.3	54.2	21.5	30.23	11.90
C2B-250	C2B-250LV	250	65	0.41	14.5	24.97	55.0	130.30	51.3	5.7	2.3	54.2	21.5	30.23	11.90
C2B-300	C2B-300LV	300	80	0.52	18.23	28.15	62.0	164.40	64.7	5.7	2.3	54.2	21.5	30.23	11.90
C2B-350	C2B-350LV	350	90	0.59	20.66	33.14	73.0	144.80	57.0	5.7	2.3	61.4	24.3	34.04	13.40
C2B-450	C2B-450LV	450	120	0.74	26.06	36.32	80.0	183.10	72.1	5.7	2.3	61.4	24.3	34.04	13.40

C2-LiteCAD™ Series

Design Features

- Patented CAD-2 diaphragm technology
- Unique 3 piece construction
- Reinforced plastic connection
- Durable continuous strand fiberglass sealed with epoxy resin
- Rugged copolymer polypropylene base
- Quality brass air stem with o-ring seal
- No sweat design
- Comprehensive testing
- No maintenance
- Maximum working pressure 8.6 Bar



ISO:9001 ACS WRAS

Applications

These tanks are ideally suited for a wide range of applications including:

- Booster systems
- Thermal expansion
- Irrigation systems
- Hydraulic hammer arresting
- Fire Fighting

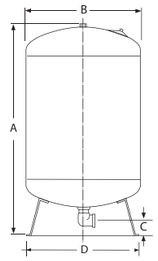
Product Details

BSP		Nominal Volume		Shipping (Box) Volume		Shipping (Box) Weight		Dimensions							
								A		B		C		D	
Old Part Number	New Part Number	liters	gal	m1	ft3	kg	lbs	cm	inches	cm	inches	cm	Inches	cms	inch
GC-60	GCB-60LV	60	15	0.10	3.65	12.25	27.00	56.52	22.25	40.68	16.02	4.71	1.85	36.22	14.26
GC-80	GCB-80LV	80	20	0.13	4.74	15.20	33.50	74.54	29.35	40.68	16.02	4.71	1.85	36.22	14.26
GC-100	GCB-100LV	100	25	0.16	5.68	19.52	43.00	88.83	34.97	40.68	16.02	4.71	1.85	36.22	14.26
GC-130	GCB-130LV	130	35	0.20	7.08	24.74	54.50	110.09	43.34	40.68	16.02	4.71	1.85	36.22	14.26
GC-200	GCB-200LV	200	50	0.31	10.88	38.10	84.00	104.14	41.00	53.42	21.03	5.70	2.24	44.63	17.57
GC-250	GCB-250LV	240	60	0.37	13.18	43.81	96.50	122.37	48.18	53.42	21.03	5.70	2.24	44.63	17.57
GC-300	GCB-300LV	310	80	0.46	16.25	52.89	116.50	151.07	59.48	53.41	21.03	5.70	2.24	44.63	17.57
GC-450	GCB-450LV	450	120	0.74	26.14	80.81	178.00	153.90	60.59	66.06	26.01	5.70	2.24	54.23	21.35

Challenger™ Series

Design Features

- Patented CAD2 diaphragm technology
- Stainless steel water connection
- Condensation reducing design
- Two part polyurethane, epoxy primed paint finish
- Comprehensive testing
- Low on maintenance
- Leak free air valve cap sealed with closed cell form
- NSF Standard 61, CE/PED, WRAS, ACS, Evrazes, ISO:9001 & Govt. approved
- Maximum working tempreture 90°C
- Maximum working pressure 10 Bar



ISO:9001 ACS WRAS

Applications

Challenger™ tanks are ideally suited for a wide range of applications, including:

- Booster systems
- Heating expansion
- Thermal expansion
- Irrigation systems
- Hydraulic hammer arresting
- Fire fighting

Product Details

Model Numbers			Connection	Nominal Volume	Ship Weight			Dimensions	
					10 bar	16 bar	25 bar	A	B
Inline 10 bar models	Inline 16 bar models	Inline 25 bar models	inches	liters	kg	kg	kg	cm	cm
N/A	SMB-100LV	SUB-100LV	1”	100	NA	28	51	46	99
N/A	SMB-150LV	SUB-150LV	1”	150	NA	50	85	50	110
N/A	SMB-200LV	SUB-200LV	11/4"	200	NA	68	112	59	112
N/A	SMB-300LV	SUB-300LV	11/4"	300	NA	79	130	64	123
N/A	SMB-500LV	SUB-500LV	11/4"	500	NA	115	202	75	155
SFB-750LV	SMB-750LV	SUB-750LV	2	750	110	220	328	75	195
SFB-850LV	SMB-850LV	SUB-850LV	2	850	145	235	344	80	195
SFB-1000LV	SMB-1000LV	SUB-1000LV	2	1000	165	250	368	80	218
SFB-1500LV	SMB-1500LV	SUB-1500LV	2	1500	250	375	495	96	238
SFB-2000LV	SMB-2000LV	SUB-2000LV	2	2000	370	520	745	110	252
SFB-3000LV	SMB-3000LV	SUB-3000LV	2 1/2"	3000	550	780	910	120	280
SFB-4000LV	SMB-4000LV	SUB-4000LV	3	4000	730	980	1290	145	310
SFB-5000LV	SMB-5000LV	SUB-5000LV	3	5000	840	1140	1472	145	372
SFB-10000LV	SMB-10000LV	SUB-10000LV	4	10000	1920	2500	2980	160	575

AVENTURA
Components Are Everything

SuperFlow™ Series

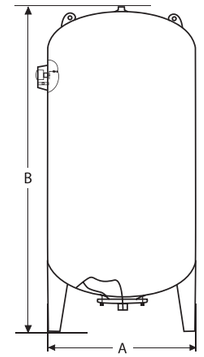
Design Features

- Built-in pressure guage (Models SF100-SF10,000)
- Interchangeable membrane with unique teired design
- Available in 10, 16 and 25 bar pressure rating
- Sizes from 100 to 10,000 liters
- CE and ISO: 9001 approved

Applications

These tanks are ideally suited for a wide range of applications including:

- Booster systems
- Irrigation systems
- Fire Fighting
- Thermal expansion
- Hydraulic hammer arresting

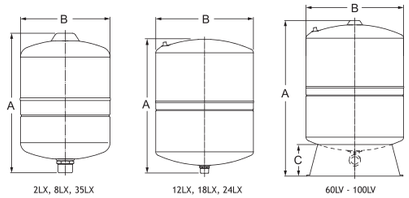


Product Details

BSP		NPT		Connection	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
Old Part Number	New Part Number	Old Part Number	New Part Number	BSP / NPT SS Inline	liter	gal	m^3	ft^3	kg	lbs	A		B		C	
											cm	inches	cm	inches	cm	inches
Inline Models																
PWB8 25	UMB-8LX	PWN8 25	UMN-8LX	1"	8	2.1	0.014	0.49	3.49	7.67	31.30	12.32	20.30	7.99	-	-
PWB24 25	UMB-24LX	PWN24 25	UMN-24LX	1"	24	6.3	0.042	1.48	8.74	19.27	44.70	17.60	29.30	11.54	-	-
Vertical Models w/ base																
	UMB-100LV		UMN-100LV	1"	100	26.3	0.16	5.69	39.9	87.96	32.40	43.05	43.5	17.13	12.9	5.08

Ultra Max™ Series

- Suitable for many high-pressure applications
- Super thick steel construction
- Patented stainless steel water connection
- Virgin polypropylene liner
- Two part polyurethane, epoxy primed paint finish
- Leak free, o-ring sealed air valve cap
- Comprehensive testing
- No maintenance
- Single diaphragm design
- Maximum working pressure 25 Bar

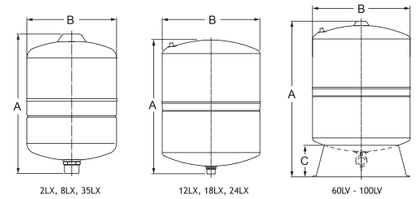


Product Details

BSP		NPT		Connection	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
Old Part Number	New Part Number	Old Part Number	New Part Number	BSP / NPT	liter	gal	m^3	ft^3	kg	lbs	A		B		C	
Inline Models											cm	inches	cm	inches	cm	inches
PWB2 16	MXB-2LX*	PWN2 16	MXN-2LX*	1"	2	0.5	0.06	2.12	0.8	1.76	20.9	8.23	12.6	4.96		
PWB8 16	MXB-8LX	PWN8 16	MXN-8LX	1"	8	2.1	0.014	0.49	2.43	5.36	31.3	12.32	20.2	7.95		
PWB12 16	MXB-12LX	PWN12 16	MXN-12LX	1"	12	3.2	0.023	0.81	3.2	7.05	33.7	14.37	23	9.06		
PWB18 16	MXB-18LX	PWN18 16	MXN-18LX	1"	18	4.7	0.03	1.06	4.76	10.49	36.7	14.45	27.9	10.98		
PWB24 16	MXB-24LX	PWN24 16	MXN-24LX	1"	24	6.3	0.042	1.48	5.95	13.12	44.7	17.6	29	11.42		
PWB35 16	MXB-35LX	PWN35 16	MXN-35LX	1"	35	9.2	0.06	1.95	8.57	18.89	48.1	18.9	31.8	12.52		
Vertical Models w/ base																
PWB60V 16	MXB-60LV	PWN60V 16	MXN-60LV	1"	60	15.8	0.098	3.46	15.1	33.33	62	24.41	39	15.35	12.7	5
PWB80V 16	MXB-80LV	PWN80V 16	MXN-80LV	1"	80	21	0.13	4.59	20.7	45.61	81.5	32.09	39	15.35	12.7	5
PWB100V 16	MXB-100LV	PWN100V 16	MXN-100LV	1"	100	26.3	0.16	5.65	22.2	48.92	80.4	31.65	43.1	16.97	12.9	5.08

Max™ Series

- Suitable for many high-pressure applications
- Super thick steel construction
- Patented stainless steel water connection
- Virgin polypropylene liner
- Two part polyurethane, epoxy primed paint finish
- Leak free, o-ring sealed air valve cap
- Comprehensive testing
- No maintenance
- Single diaphragm design
- Maximum working pressure 16 Bar



ISO:9001 ACS WRAS

Technical Specifications

Effective Specific Surface area	400 m^2/m^3
Media Height	15 mm/ 10 mm
Media Diameter	22 mm
Weight per unit surface area	0.37 kg/m^2
Specific Gravity	0.90-0.95 g/cm^3
Voidage	>98%
Density	0.93 g/cm^3
Media fill rate range	25-55% of volume

AVENTURA
Components Are Everything

Moving Bed Biofilm-Reactor Media

Design Features

- Excellent bio-surface area
- Clog-free operation
- Long media service life
- Low density to avoid deep submerge
- Extremely robust & reliable

Applications

- Municipal Sewage Treatment
- Industrial Effluent Treatment
- Community Sewage Treatment

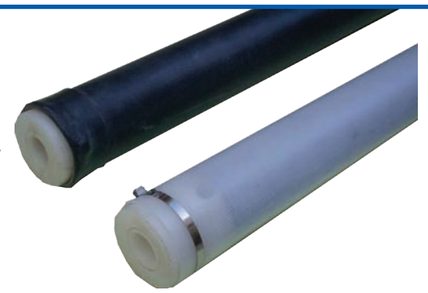
ISO:9001 CE

Technical Specifications

Size	90 mm X 1000 mm	63 mm X 1000 mm	63 mm X 610 mm
Type	Tubular	Tubular	Tubular
Membrane	EPDM or Silicon	EPDM or Silicon	EPDM or Silicon
Air flow rate range	5.0 – 12.0 m^3/h	3.0 – 9.0 m^3/h	2.0 – 5.5 m^3/h
Connection	1" NPT Female	¾" NPT Female	¾" NPT Female
Support Disc	Open end design one piece moulded PVC	Open end design one piece moulded PVC	Open end design one piece moulded PVC
Retaining Clamp	Stainless Steel AISI-304	Stainless Steel AISI-304	Stainless Steel AISI-304

Air Diffuser for Aeration in STP & ETP

Fine Bubble Tube Diffuser



Design Features

- High quality EPDM rubber material
- High oxygen transfer
- Prevents ingress of water into the air distribution system
- Low power consumption due to high oxygen transfer efficiency
- Factory assembled for easy installation
- Low maintenance and long service life

Applications

- Municipal wastewater treatment
- Pre-discharge aeration
- Aqua culture
- Aerobic Sludge Digester
- Drinking water aeration

Technical Specifications

Model	AVD-225	AVD-300
Membrane Material	EPDM/ Silicon	EPDM/ Silicon
Aeration Surface Area	0.0397 m^2	0.068 m^2
Bubble Diameter	1.0 – 3.0 mm	1.0 – 3.0 mm
Membrane Service life	>5 years	>5 years
Standard Aeration rate	3.5 m^3/h	6.0 m^3/h
Aeration Scope	1 – 6 m^3/h	1 – 8 m^3/h
Operating Temperature	80˚C	80˚C
Diffuser Weight	0.59 kg	0.86 kg

Fine Bubble Disc Diffuser

Features

- Made with less than 10% extractable oils to ensure high quality
- PP material used for base and ring
- Integral O-ring seal to keep water out
- Long product life

Technical Specifications

Size	80 mm
Type	Disc
Membrane	EPDM and Silicon
Air Flow rate Range	5.0 – 12.0 m^3/h
Connection	¾" NPT Male

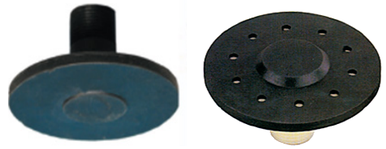
Coarse Bubble Disc Diffuser

Features

- Low maintenance requirements
- Long durability
- High resistance to clogging and corrosion

Applications

- Large scale mixing
- Industrial wastewater treatment
- Equalization tanks
- Grit chambers
- Sludge holding tanks



NOTE

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AVENTURA
Components Are Everything

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