FIA series

AUTOMATIC IRON REMOVAL FILTERS

Iron and Manganese Removal!

The **FIA** series of automatic iron removal filters are the best solution for the discharge of iron and manganese dissolved in water, for domestic or industrial applications when typically small & medium flow rates are required. These filters are compact, robust, engineered for 24/7 usage, with limited space and low energy footprint. The control valve is time programmable and when the time set is reached, the backwashing starts in order to restore the filtration bed to its previous state. No chemicals are required for regeneration. The filtering bed is periodically regenerated by simple backwashing with water. The media filter consists of selected spheroidal quartz-sand of three different grain-sizes and a special catalytic media Pyrolusite, which retains iron and manganese. In order to improve the oxidation action and to keep the media filter activated, the raw water must have a residual minimum chlorine content of approx. 0.5ppm. All parts are NON-Toxic, suitable for potable water and for long term use. **FIA filters** are connected in series with your water network after any booster set, or before a reservoir tank.

The control valve is made of NSF listed NORYL® and the vessel from PE liner reinforced with fiberglass and epoxy resin for durability.

Features:

- ✓ Automatic or manual function!
- ✓ Programmable backwash!
- ✓ Programmable backwash phases!
- ✓ Safe! (12V)
- ✓ High degree of quality in compact size!
- ✓ Widely installed in well water supplies.

Applications:

- ♦ Industrial filtration.
- ♦ Well water filtration.
- ♦ R.O. pre-treatment.
- ♦ Laboratories.
- ♦ Main supply filtration.
- ♦ Iron reduction.
- ♦ Manganese reduction.

Characteristics:

- **Control valve:** glass reinforced Noryl®
- **Media vessel:** PE fiberglass reinforced externally.
- **Pressure:** 1,72— 6,9bar
- **Water temp:** 1-36 °C.
- **Ambient temp:** 4-45 °C.
- **Service flow:** 0,5— 7m³/h
- **Voltage:** 230 AC to 12AC EU plug transformer.

CRYSTAL BLUE
www.brentas.eu

BRENTAS M
35, Nea Monastiriou str.
56334, Thessaloniki
Greece

Phone: +30 2310 559000
Fax: +30 2310 559003
e-mail: sales@brentas.gr

Scan the QR code to ask for a quotation via email.

FIA series

AUTOMATIC IRON REMOVAL FILTERS

- ◊ **Fully customizable controller** allows modifications and settings for total control thus allowing to get the maximum from the system in any installation condition. The internal memory is non volatile and a super-capacitor battery supply's the time of day setting.
- ◊ **The Valve** is a reliable hydraulic part of the filter that responds to controller's commands and carries out all automated phases of the backwash and service.
- ◊ **Fine grade media** delivers the best filtration quality while the flow rate is retained at the highest levels for the longest period before the next backwash cycle. The result is a high efficiency system, low water consumption and higher up-times, which is key factor in commercial or industrial applications.
- ◊ **Backwashing** is restoring the media to their original state, setting them able to receive new loads of iron and manganese. The whole process is fully automated and programmable. Two phases of backwash are taking place in every automatic backwash (backwash and rinse) which allowing the FIA filter to be washed with the same inlet water, without the need to find a clean resource just for the backwash.
- ◊ **The pressure vessel** contains all media inside and the valve with the controller on top. The mechanical characteristics of the vessel are high enough to sustain the weight of the sand and the pyrolusite and water pressure up to 10bar.

MODEL	Diameter	Height	Flow (service)*	Flow (backwash)	Flow (max)	Sand (2-3)+(1-2)+(0.4-0.8)	Pyrolusite (0.3-0.8)	Connections	Weight
Units	mm (in)	mm (in)	m^3/h	m^3/h	m^3/h	Kg	Kg	in	Kg
FIA 0.6	269 (10)	1.598 (63)	0,5	1,3	1,1	10+12+25	25	1"	90
FIA 0.9	330 (13)	1.584 (63)	0,9	2,2	1,8	15+20+38	38	1"	136
FIA 1.3	420 (16)	1.922 (76)	1,3	3,3	2,6	25+50+50	50	1"	216
FIA 1.8	510 (18)	2.016 (80)	1,7	4,3	3,5	25+50+90	90	1,5"	329
FIA 2.4	510 (21)	1.915 (75)	2,4	6,0	4,8	35+60+100	100	1,5"	367
FIA 3.0	510 (24)	2.160 (85)	3,0	7,3	5,9	50+75+115	115	1,5"	449
FIA 4.7	730 (30)	2.340 (92)	4,7	11,7	9,3	75+125+160	160	2"	675
FIA 7.0	730 (36)	2.440 (96)	7,0	17,3	17,0	150+200+450	450	2"	1.514

*Service flow is calculated for $10m^3/h/m^2$ linear flow.

Includes:

* Inlet, outlet and drain connections. * Wall power Supply 220/12V 3W * Instruction manual

CRYSTAL BLUE
www.brentas.eu

BRENTAS M
35, Nea Monastiriou str.
56334, Thessaloniki
Greece

Phone: +30 2310 559000
Fax: +30 2310 559003
e-mail: sales@brentas.gr

Scan the QR code to ask for a quotation via email.