

# DIX Hydromedia

## STAINLESS STEEL MEDIA FILTERS

### Technical Manual



Designed and Manufactured in Australia  
by 100% Australian Owned Company

**IMPORTANT NOTICE:**

Ensure that all persons who use the DIX HYDROMEDIA filters read and thoroughly understand these instructions prior to operation. Should you have any questions regarding the use of the filter, please call your dealer for assistance.

For future reference, please record the dealer's details and the initial operating parameters in the space provided on the back cover.

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## 1. INTRODUCTION TO DIX HYDROMEDIA FILTERS

Thank you for choosing DIX HYDROMEDIA filters. DIX HYDROMEDIA filters are designed and manufactured in Australia by DIX Engineering for our harsh environmental conditions and represent some of the most advanced media filtration technology available throughout the world. They are ideally suited to agricultural irrigation and industrial applications that demand exceptional filtration performance and reliability. This manual will provide you with information concerning the design, efficient operation and maintenance of your filters. Please read the entire manual prior to installation and retain it at the filtration site for future reference.

## 2. SAFETY FIRST

- Safety precautions are essential when any filtration equipment is involved. These precautions are necessary when using or servicing your filter. Failure to observe appropriate safety precautions may result in personal injury or product damage.

### **Always observe the following precautions:**

- Read this manual carefully. Consider the applications, limitations and potential hazards specific to your filter installation.
- DIX HYDROMEDIA filters operate at high pressure. Whilst catastrophic failure of the pressure vessel is highly improbable, consider eye protection when in the vicinity of pressurised filters.
- Do not tamper with any filtration components whilst the system is pressurised.
- Ensure that all unions, couplings and clamps are properly seated and tightened prior to system pressurisation.
- Units with damaged or missing parts must not be operated.
- System design should ensure that back-flow is prevented. Where appropriate, back-flow prevention devices should be installed upstream of the inlet and downstream of the outlet to prevent back-flow or vacuum effects due to pump-stop, bursts or topography.

Installation of a check valve allows the filters to be serviced without draining the entire system.

- Ensure that adequate eye and skin protection is worn when conducting manual cleaning operations involving corrosive chemicals and that a source of fresh water is readily available. Immediately neutralise and clean up any chemical spills.
- Serious shock or electrocution can occur when electricity contacts water. Never attempt to adjust or service the filter controller if your hands or feet are wet or if you are standing on wet ground. Make sure outdoor electrical outlets are weatherproof and protected by an earth leakage device designed to protect you from electrical shock.

## 3. FEATURES AND BENEFITS OF DIX HYDROMEDIA FILTERS

- Australian designed and manufactured ensuring speedy access to technical support, service and spares.
- Durable grade 304 stainless steel construction (optional Grade 316 available) providing outstanding corrosion, UV and abrasive wear resistance, yielding many years of reliable service.
- Symmetrical manifold design that permits connection from either end thereby minimising the floor space and piping requirements for large capacity filtration systems.
- Fully serviceable nozzles fitted with positive sealing grommets minimise the possibility of media escaping from the filters and improve backflush-cleaning effectiveness.
- Automatic control that utilises both time and pressure differential to trigger cleaning, minimising operator intervention and reducing pump energy costs.

## 4. PRINCIPLES OF OPERATION

### **Filtration Mode**

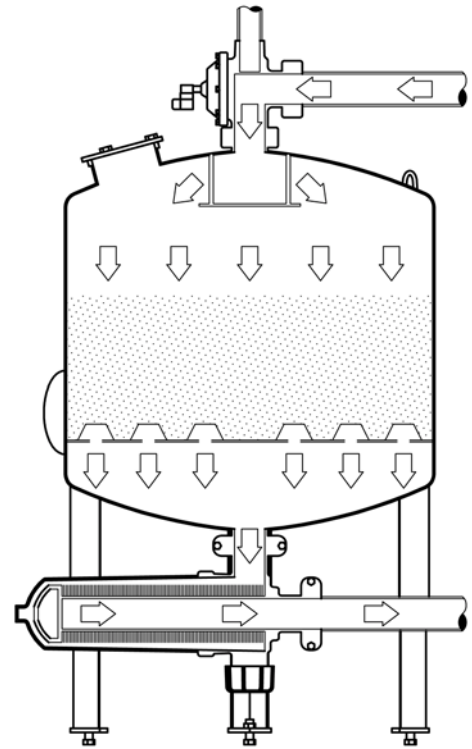
Due to the large size and three-dimensional characteristics of media filters, they are very effective at filtering both inorganic and organic contaminants from water supplies. Pressurised water is supplied to the filters via the inlet manifold mounted above the filter housings.

After entering the filter housings, contaminated water contacts a spreader plate that deflects and disperses the water evenly over the upper surface of the sand media bed. As the water permeates down through the media bed, the fine irregular shaped voids formed between the grains of media, capture contaminants. The internal floor of the filter that supports the media bed is fitted with an arrangement of mushroom shaped nozzles. These nozzles contain very fine slit-shaped orifices that retain the filter media whilst permitting clean water to pass through to the bottom of the filter housing. Prior to exiting via the outlet manifold, the filtered water passes through an AZUD secondary disc filter that guarantees no media is allowed to escape from the system.

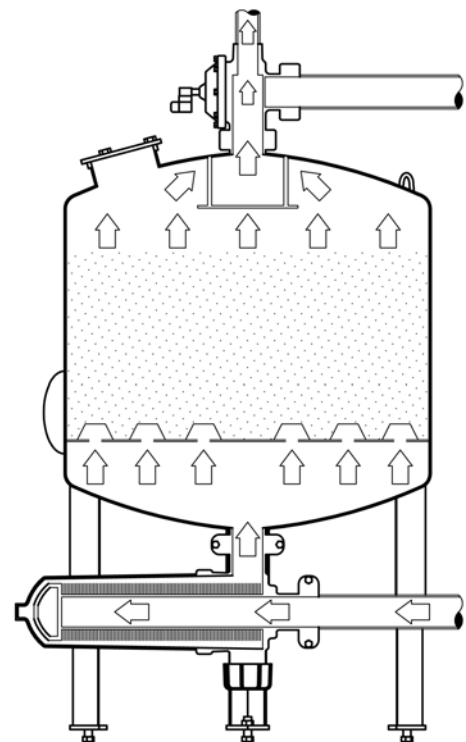
**Automatic Backflush Mode**

Thorough backflushing of the media bed is essential to ensure the removal of captured contaminants. The filter's controller determines when the filters require backflushing, either after a specified service time or by sensing a preset pressure differential between inlet and outlet manifolds. The controller sends a signal to the 3-way Bermad™ backflush valve, which closes the inlet port and simultaneously opens the flush manifold port. As there is no pressure in the backflush manifold, clean water enters from the pressurised, outlet manifold and flows back through the bottom of the filter housing, passing up through the nozzles. (Because media filters require an adequate source of clean water for backflushing, it is usual that installations be comprised of multiple media filter housings and that filters are flushed sequentially. The 501-L model uses unfiltered water to backflush the media bed.) The clean water expands the media bed releasing entrapped contaminants that are flushed out of the filter through the backflush manifold. After a preset time, the Bermad™ backflush valve receives a signal to return to its filtration position, water flow reverses and normal filtration action is restored.

This process is repeated until all filter housings in the installation are thoroughly cleaned.



**Filtration Mode**



**Backflush Mode**

**5. SYSTEM COMPONENTS**

**Filter Housing**

DIX HYDROMEDIA filter housings are fabricated from corrosion resistant grade 304 stainless steel and are engineered for optimal strength. Under normal conditions, they will provide decades of reliable service. Occasional washing with soap and water to remove grime and chemical spills followed by the application of a light oil (eg WD-40), is all that is required to maintain their shiny appearance. In installations where the water source contains chloride levels above 200mg/L (200ppm) at ambient temperatures, reducing to 150mg/L (150ppm) at 60°C, pitting, crevice corrosion or stress cracking may be experienced in grade 304 stainless steel. Chlorine injection practices that result in concentrations >2mg/L (>2ppm) should be positioned downstream of the outlet manifold. The Nickel Development Institute recommends grade 316 stainless steel where chloride levels exceed 200mg/L. These are available from your DIX dealer, subject to special order and pricing.

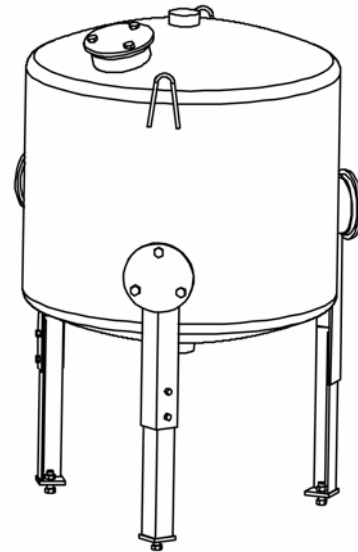
**Nozzles and Grommets**

Nozzles and Grommets are located in the internal floor of the Filter Housings. They serve the dual purposes of retaining the Filtration Media during filtration and dispersing backflush water during cleaning operations. The rubber Grommets are first press-fitted into the internal floor of the Filter Housings before the threaded Nozzles are screwed into position, expanding the Grommets to prevent filter media leakage.

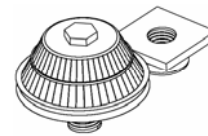
**Filtration Media**

DIX HYDROMEDIA filters may be supplied with 25-kilogram bags of silica filter-sand in one of three common grades. Dependent upon the flow rate and water quality, the grades of sand available provide approximate filtration standards as listed in the table below. (Refer to Table 1.)

Refer to the Table 3 for specific bag quantities.



**Filter Housing**



**Nozzles and Grommets**



**Filtration Media**

**Table 1.**

Mesh Size Grade	Effective Size (e.s)	Nominal Filtration Standard	Uniformity Coefficient (U.C.)	Colour	Bulk Density Kg/m <sup>3</sup>	Specific Gravity	Acid Solubility (10% HCl)
8/16	1.0mm	130-175µm	1.6	Light Brown	1500	2.65	< 1%
16/30	0.6mm	75-130µm	1.6	Light Brown	1500	2.65	< 1%
20/40	0.4mm	50-75µm	1.4	Light Brown	1500	2.65	< 1%

**Inlet/Outlet Manifolds**

Inlet/Outlet Manifolds connect the individual filter housings via Victaulic™ couplings. DIX HYDROMEDIA filter manifolds are fabricated from corrosion resistant stainless steel for durability and long life. Their symmetrical design permits inlet and outlet connections to be made from either end, thereby minimising space and plumbing requirements whilst the inclusion of jacking screws simplifies levelling and coupling. One oil-filled pressure gauge is supplied to enable monitoring of the system pressure in the Inlet Manifold. All stainless steel manifold flanges are manufactured to Table D standard.

**Backflush Manifold**

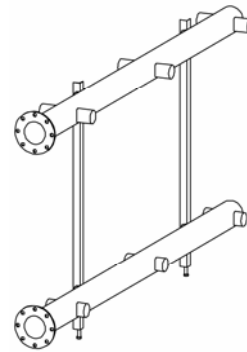
The polyethylene Backflush Manifold receives backflush water discharged from the filter housings during cleaning operations. The use of high quality +GF+ metric fittings simplifies the connection of the manifold to polyethylene pipe for disposal in accordance with local authority bylaws. (Not required on 501-L Mono.)

**AZUD Secondary Disc Filters**

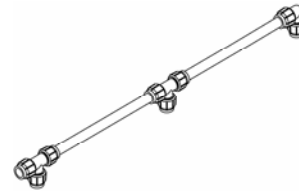
A unique feature of DIX HYDROMEDIA filters is the inclusion of AZUD secondary disc filters. The AZUD filters trap any Filtration Media that may escape from the Filter Housings to ensure reliability and the highest possible water quality. The AZUD disc filters are supplied standard with 130-micron filtration discs.

**Bermad™ Backflush Valves and Burkert™ Solenoid Valves**

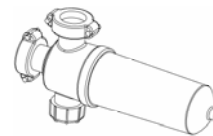
Bermad™ backflush valves are located between the Filter Housings, Inlet and Backflush Manifolds. They are actuated by Burkert™ solenoid valves, which receive a control signal from the filter controller indicating backflushing is required.



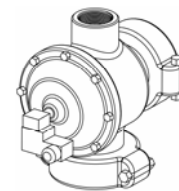
**Inlet / Outlet Manifold**



**Backflush Manifold**



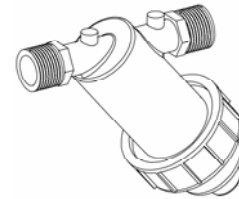
**AZUD Secondary Disc Filter**



**Backflush Valves and Solenoid Valves**

**Control Line Disc Filter**

A Control Line Disc Filter is provided to supply clean water to the valve diaphragms via 8mm control tubes. This filter is not self-cleaning and should be regularly inspected to ensure proper operation of the Bermad™ backflush valves and Burkert™ solenoids.



**Control Line Disc Filter**

**Murphy® Pressure Differential Gauge**

The Murphy® Pressure Differential Gauge measures and compares the pressure in both Inlet and Outlet Manifolds. The pressure differential value is conveyed to the filter's controller for processing. (Not supplied on 501-L Mono.)



**Pressure Differential Gauge**

**6. MODEL / CONFIGURATION**

Due to their modular construction, DIX HYDROMEDIA filters are supplied in a wide range of configurations to suit virtually any conceivable application.

**Three filter housing diameters are available:**

500mm **Series 500**

900mm **Series 900**

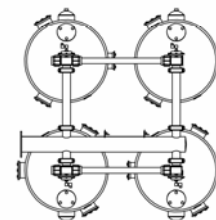
1200mm **Series 1200**

The standard models range from two to eight filter housings. (The 501-L Mono is the only single filter housing model.) Filters are supplied in linear Configurations of 2 to 8 housings and rectangular arrangements of 4, 6 or 8 housings. During cleaning, systems with a greater number of filter housings are less likely to be affected by pressure drop as each filter is sequentially back-flushed. Arrangements of up to 50 filter housings are available in both linear and rectangular configurations. Please address inquiries to your Dix dealer for specific system design

Linear arrangements are identified by an "L" in their model numbers whilst rectangular configurations are designated by the letter "R". (Eg: Model number 1206-R denotes six, 1200mm-filter housings arranged in a rectangular configuration.)



**Linear Configuration**



**Rectangular Configuration**

## 7. TECHNICAL DATA

**Table 2. Flow Data**

Model Number (Standard Range)	Filter Housing Diameter	Number of Filter Housings	Maximum Filtration Flow Rate (m <sup>3</sup> /hr)	Nominal Inlet/Outlet Manifold Diameter	Maximum Rated Working Pressure
501-L Mono	500mm	1	12*	50mm	1300 kPa (188 psi)
502-L	500mm	2	24*	80mm	1300 kPa (188 psi)
503-L	500mm	3	36*	80mm	1300 kPa (188 psi)
504-L / R	500mm	4	48*	80mm	1300 kPa (188 psi)
505-L	500mm	5	60*	100mm	1300 kPa (188 psi)
506-L / R	500mm	6	72*	100mm	1300 kPa (188 psi)
507-L	500mm	7	84*	100mm	1300 kPa (188 psi)
508-L / R	500mm	8	96*	100mm	1300 kPa (188 psi)
902-L	900mm	2	78*	100mm	700 kPa (101 psi)
903-L	900mm	3	116*	150mm	700 kPa (101 psi)
904-L / R	900mm	4	155*	150mm	700 kPa (101 psi)
905-L	900mm	5	194*	150mm	700 kPa (101 psi)
906-L / R	900mm	6	233*	200mm	700 kPa (101 psi)
907-L	900mm	7	272*	200mm	700 kPa (101 psi)
908-L / R	900mm	8	310*	200mm	700 kPa (101 psi)
1202-L	1200mm	2	138*	150mm	550 kPa (80 psi)
1203-L	1200mm	3	207*	150mm	550 kPa (80 psi)
1204-L / R	1200mm	4	276*	200mm	550 kPa (80 psi)
1205-L	1200mm	5	345*	200mm	550 kPa (80 psi)
1206-L / R	1200mm	6	414*	250mm	550 kPa (80 psi)
1207-L	1200mm	7	483*	250mm	550 kPa (80 psi)
1208-L / R	1200mm	8	552*	250mm	550 kPa (80 psi)

(\*Maximum flow rates determined at 35kPa head loss. Increasing flow rates above the recommended maximum values will increase head losses.)

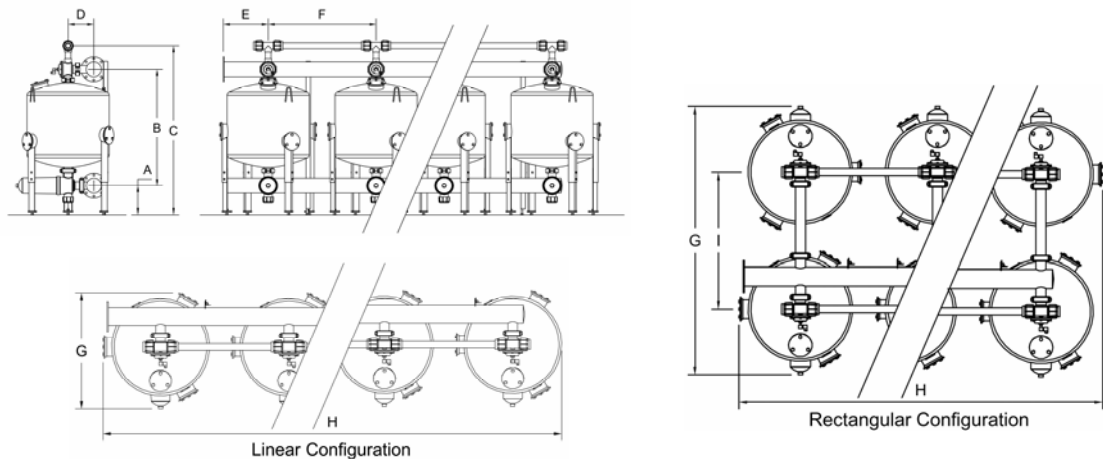
**Table 3. Media Data**

Filter Model Series	No. Nozzles	Media Depth	Media Volume	Approx. No. 25kg Bags	Minimum Backflush Flow Rate
Series 500	15	300mm	0.06 m <sup>3</sup>	4	9 m <sup>3</sup> /hr
Series 900	42	360mm	0.23 m <sup>3</sup>	14	29 m <sup>3</sup> /hr
Series 1200	72	360mm	0.41 m <sup>3</sup>	25	51 m <sup>3</sup> /hr



**System Dimensions**

Model Number	A	B	C	D	E	F	G	H	I
501-L Mono	200	1260	1710	–	–	–	750	700	–
502-L	200	1260	1710	320	300	900	750	1600	–
503-L	200	1260	1710	320	300	900	750	2500	–
504-L	200	1260	1710	320	300	900	750	3400	–
504-R	200	1260	1710	320	300	900	2200	1600	1250
505-L	200	1260	1710	335	300	900	750	4300	–
506-L	200	1260	1710	335	300	900	750	5200	–
506-R	200	1260	1710	335	300	900	2200	2500	1250
507-L	200	1260	1710	335	300	900	750	6100	–
508-L	200	1260	1710	335	300	900	750	7000	–
508-R	200	1260	1710	335	300	900	2200	3400	1250
902-L	280	1300	1850	275	500	1200	1150	2300	–
903-L	280	1300	1850	275	500	1200	1150	3500	–
904-L	280	1300	1850	275	500	1200	1150	4700	–
904-R	280	1300	1850	275	500	1200	2750	2300	1550
905-L	280	1300	1850	300	500	1200	1150	5900	–
906-L	280	1300	1850	300	500	1200	1150	7100	–
906-R	280	1300	1850	300	500	1200	2750	3500	1550
907-L	280	1300	1850	300	500	1200	1150	8300	–
908-L	280	1300	1850	300	500	1200	1150	9500	–
908-R	280	1300	1850	300	500	1200	2750	4700	1550
1202-L	280	1400	2030	285	700	1500	1250	2900	–
1203-L	280	1400	2030	285	700	1500	1250	4400	–
1204-L	280	1400	2030	310	700	1500	1250	5900	–
1204-R	280	1400	2030	310	700	1500	3100	2900	1850
1205-L	280	1400	2030	310	700	1500	1250	7400	–
1206-L	280	1400	2030	340	700	1500	1250	8900	–
1206-R	280	1400	2030	340	700	1500	3100	4400	1850
1207-L	280	1400	2030	340	700	1500	1250	10400	–
1208-L	280	1400	2030	340	700	1500	1250	11900	–
1208-R	280	1400	2030	340	700	1500	3100	5900	1850



## 8. INSTALLATION GUIDELINES

- To avoid excessive stress on manifold and support frame welds, the DIX HYDROMEDIA filters must be mounted on a firm, supporting surface. It is recommended that a 100mm thick concrete pad be provided and that supporting legs are levelled by adjustment of the jacking screws prior to installing the manifolds. Whilst not essential, consideration should be given to the provision of a weatherproof structure to provide additional protection to filters and controller.
- Provide a quick pressure relief valve upstream and downstream of the filter set to activate at 1.2 times the maximum working pressure. This will minimise possible damage to the filter should severe water hammer be experienced. Pressure relief valves are available in a range of sizes. Consult your DIX distributor or valve manufacturer to obtain the proper valve for your application.
- DIX HYDROMEDIA filters require a minimum backflush flow rate to guarantee effective cleaning. Should available flow rate be less than that specified for each model, a sustaining valve must be installed directly downstream of the filter manifold outlet to maintain sufficient backflush cycle pressure to fluidise the media bed. The sustaining valve should be programmed by the controller to operate for the duration of the backflush cycle and deactivate when not in backflush mode. Should backflushing result in excessive water velocity through the filter housings, bed expansion may result in media being discharged through the backflush manifold. Consult your DIX distributor or valve manufacturer to obtain the proper back wash throttle valve for your application.
- Prior to loading media, internally inspect the housings to ensure they are clean and free from debris. Confirm that all mushroom nozzles are present and firmly seated in their grommets. To assist in the process of levelling the media, it is suggested the housings be filled with clean water prior to commencing loading.

Ensure the correct depth/volume of media is loaded into the filters. If filters are overfilled, media will be discharged through the backflush manifold during backflushing cycles, whilst under filling will compromise the filtration effectiveness.

- Check that all filter covers and inspection ports are correctly seated and that the stainless steel clamps of the AZUD secondary disc filters are securely latched prior to pressurising the system. Take care to ensure that no sand is trapped beneath the rubber inspection port seals.
- Confirm that all water from backflush manifold is discharged in accordance with all environmental regulations and local authority bylaws. If the backflush flow rate is excessive, media sand may be discharged through the backflush manifold. To rectify this situation, it will be necessary to install a flow throttle valve to the backflush manifold to regulate the flow rate.
- Connect the filter controller to a suitable power source and set desired values for time interval between backflush cycles and backflush cycle duration. Appropriate settings will be determined by the source water quality, however as a guide to initial set-up, set time interval to 300-360 minutes and duration to 90 seconds and monitor filter performance. The backflush water should run clear for several seconds.
- Adjust desired set point of the Murphy® pressure differential gauge. As a guide to an initial set point, use the "Clean Filter" differential pressure value observed immediately after a backflush cycle, plus 30kPa.

## 9. DIX FILTER CONTROLLER

- DIX HYDROMEDIA filters are supplied with an electronic DIX Filter Controller that operates on either 240VAC, 110VAC, 24VAC or 12VDC.
- To protect the controller from moisture and dust, the unit is supplied in an IP55 rated plastic enclosure.
- DIX Filter Controllers are supplied with a separate owner's manual that clearly details the set-up and operating procedures.

## 10. MAINTENANCE

### Weekly Inspection and Maintenance

- Inspect all manifolds, couplings and filter housings for leaks.
- Inspect and clean the control-line disc filter.

### Monthly Inspection and Maintenance

- Ensure the filter controller is powered up and that time and pressure differential settings are correctly set.
- With the system depressurised, open all AZUD secondary disc filter covers, remove disc cartridge and clean away any escaped media.
- Inspect media levels and top up as necessary.

### Annual Inspection and Maintenance

- With the system depressurised and drained, disassemble and inspect all Victaulic™ couplings for signs of leak or cracking. Victaulic™ gaskets should be lubricated with silicone gasket grease before reassembly to prevent them from drying.
- With the system depressurised, open all AZUD secondary disc filter covers, remove and clean discs. Visually inspect o-rings and discs for signs of wear and damage and replace as necessary.
- Individually remove and disassemble the disc cartridge from each AZUD secondary disc filter. After cleaning in a solution of diluted bleach, inspect individual discs for damage or advanced wear and replace as necessary. If discs have an excessive build up of calcium or slime, they may require soaking in a dilute solution of hydrochloric acid before cleaning with a high-pressure water hose. Lubricate all o-rings with a thin film of silicone grease. Reassemble the AZUD disc filters, ensuring the correct numbers of discs are installed.
- Disassemble air relief valve to check for blockage and clean as necessary.
- Remove the Bermad™ backflush valves' covers to check condition and clean and lubricate the rubber diaphragms, seals and pistons with silicone gasket grease.
- Inspect all control tubes for blockage and clean as necessary.

- Wash all stainless steel filter housings and manifolds with soap and water and apply a light application of WD-40 to maintain their shiny appearance.

### IMPORTANT NOTICE

- If filters are to remain unused for periods longer than 7 days, it is important that the housings are drained of all water and that inspection ports are left open for the housings to dry. Failure to observe this precaution may result in pitting or crevice corrosion of the stainless steel components.

## 11. TROUBLESHOOTING

Properly maintained **DIX HYDROMEDIA** filters will provide years of trouble free service. Should the system fail to backflush correctly, the following list of items should be checked prior to calling for professional service assistance.

- Confirm the filter controller is receiving power and that its switch is set to the "On" position.
- Confirm the filter controller's interval and flush time settings are appropriate for the supply water quality.
- Inspect and clean as necessary the control line disc filter and all Bermad™ backflush valves' control tubes.
- Confirm the filter housings are being supplied with a sufficient volume of water to permit proper fluidisation of the media bed. (Refer to the Media Data table of specific minimum backflush flow rates.)
- Check inlet manifold and Murphy® pressure differential gauge readings by comparing against the recorded "Clean Filter" initial set-up values. Investigate causes of substantial variation from these values.
- Ensure the backflush manifold is not discharging against pressure or a vertical rise.
- Check the integrity of all Burkert™ solenoid valves' electrical connections.
- Check the condition of each Bermad™ backflush valve's diaphragm and piston and replace as necessary.

## 12. WARRANTY

### **Who gives this warranty (Warrantor).**

GJ DIX Sons Pty Ltd  
271-281 Renmark Avenuet  
RENMARK SA 5341  
Australia

### **Who receives this warranty (Purchaser).**

The original purchaser (other than for purposes of resale) of the DIX product.

### **Duration**

Filter housing, manifolds, filter controller and valves: One year from the date of purchase by the original purchaser.

### **What products are covered by this warranty.**

DIX HYDROMEDIA filter housing, manifolds, Dix Filter Controller and valves manufactured or sold by the warrantor.

### **What is covered under this warranty.**

Manufacturing defects in materials and workmanship, which occur within the duration of the warranty period.

### **What is not covered under this warranty.**

Any incidental, indirect, or consequential loss, damage, or expense that may result from any defect, failure or malfunction of the warranted product.

Any failure that results from an accident, purchaser's abuse, neglect, operation in excess of stated maximum working pressure or failure to operate and maintain the warranted product in accordance with the instructions provided in the owners manual supplied with the product.

Damage to the filter controller due to lightning, voltage surge or failure to maintain the weatherproof housing in a sealed condition, or as a result of incorrect power supply connection.

Items or service that are normally required to maintain the product (eg. gaskets, media)

Corrosion, pitting and/or stress cracking of grade 304 stainless steel housings or manifolds resulting from use of filters with a water supply that contains chloride levels above 200mg/L at ambient temperatures, reducing to 150mg/L at 60°C and/or as a consequence of water chlorination practices that produce chlorine concentrations above 2mg/L.

### **Responsibilities of warrantor under this warranty.**

Repair or replace at the warrantor's option DIX HYDROMEDIA filter products or components that have failed as a result of faulty manufacture, within the duration of the warranty period.

### **Responsibilities of purchaser under this warranty.**

Deliver or ship the DIX HYDROMEDIA filter product to the warrantor's manufacturing facility. Freight costs if incurred must be borne by the purchaser.

Use reasonable care in the operation and maintenance of the product as described in the owner's manual.

### **When the warrantor will perform repair or replacement under warranty.**

Repair or replacement will be scheduled and serviced according to the normal workflow at the warrantor's manufacturing facility, dependant upon the availability of replacement parts.

If the purchaser does not receive satisfactory results from the product repair or replacement, the purchaser shall advise the warrantor immediately.

NOTE: THIS WARRANTY IS VOID AND DIX ENGINEERING ASSUMES NO LIABILITY WHATSOEVER IN THE EVENT OF THE PURCHASER FAILING TO COMPLY WITH ANY OF THE REQUIREMENTS FOR INSTALLATION AND USE OF DIX HYDROMEDIA FILTERS, AS OUTLINED IN THIS MANUAL.

# Owner's Information

---

Dealer Name: .....

Dealer Address: .....

..... P/code: .....

Telephone: .....

Facsimile: .....

Date Purchased: ..... / ..... / .....

Date Installed: ..... / ..... / .....

---

Model Number: ..... Pressure Differential Set Point: ..... kPa

Design Flow Rate: ..... m<sup>3</sup>/hr Time Interval Between Backflush Cycles: ..... minutes

Inlet Pressure: ..... kPa Backflush Cycle Duration: ..... sec

“Clean Filter” Pressure Differential: ..... kPa

## **Limitation of Liability**

The information contained in this handbook is not intended to be an exhaustive statement of all relevant data applicable to DIX Hydromedia Filters. It has been designed as a guide for customers to the products and/or services G.J. Dix & Sons Pty Ltd can offer. No responsibility is implied or accepted for or in conjunction with quality or standard of any product or its suitability for any purpose or use.

It is the responsibility of the user to ensure product specified is fit for the purpose intended.

All conditions, warranties, obligations and liabilities of any kind which are or may be implied or imposed to the contrary by any statute, rule or regulation or under the general law and whether arising from the negligence of the company, its servants or otherwise are hereby excluded except to the extent that the company may be prevented by any statute, rule or regulation from doing so.

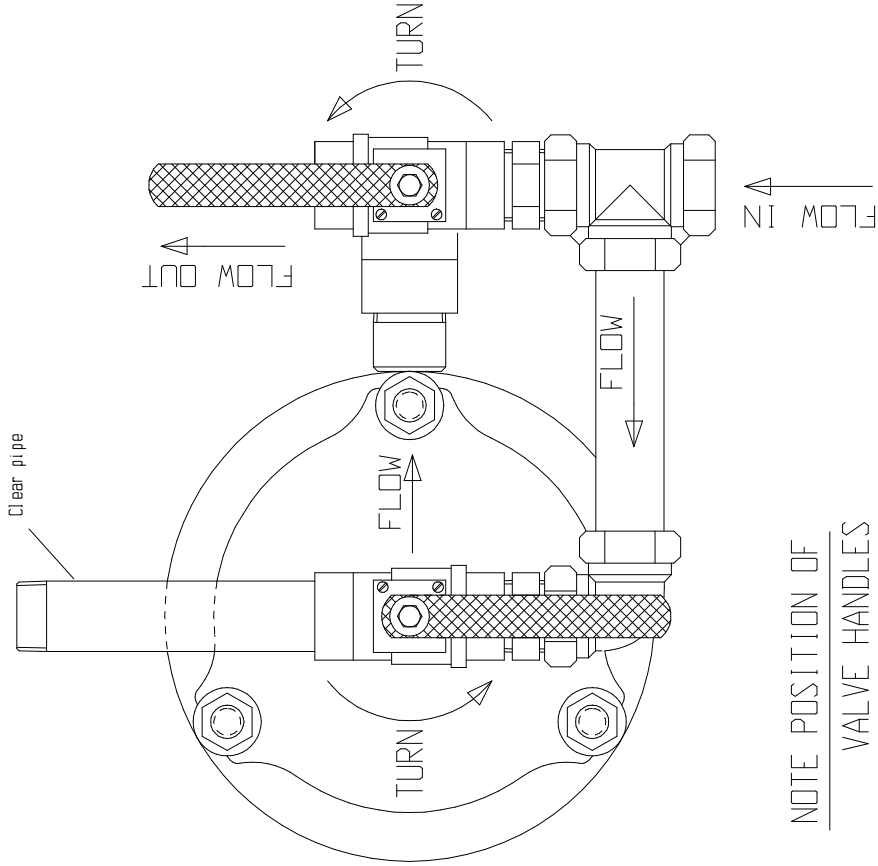
### ***Terms and Conditions of trade can be downloaded at:***

[www.dixrenmark.com.au](http://www.dixrenmark.com.au)

*Any information quoted in this manual should be considered approximate only.  
Photographs and drawings in this manual are for illustration purposes only.  
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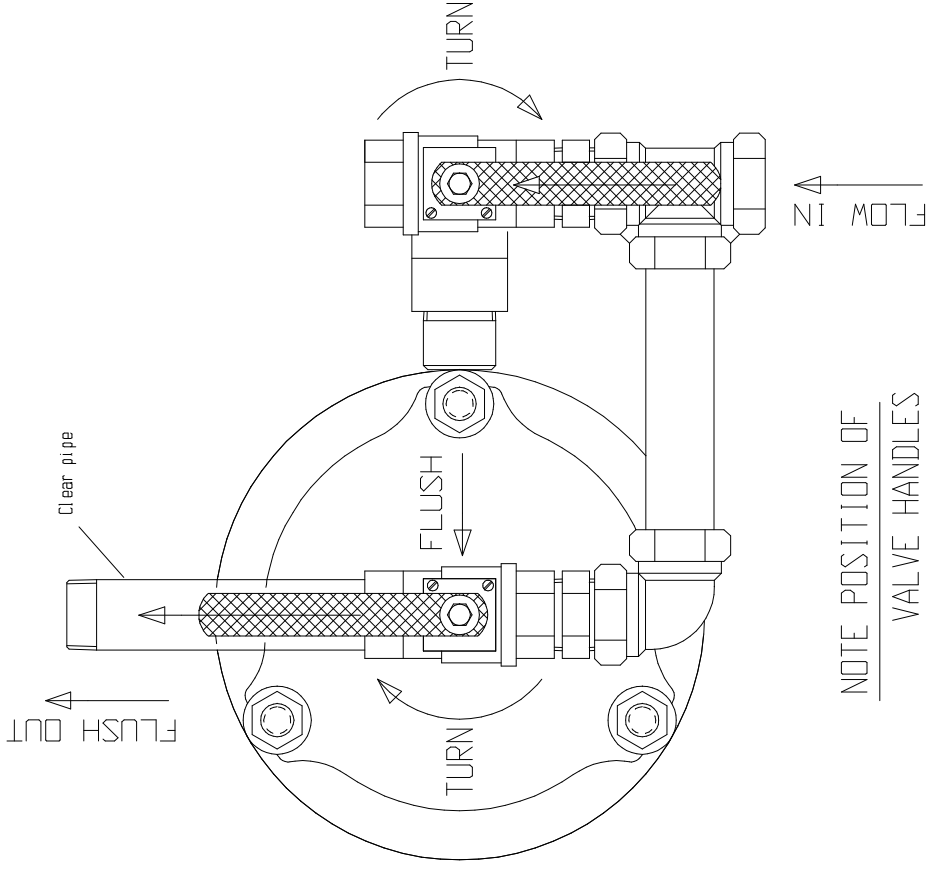
MANUAL FLUSHING OPERATION.

FILTER MODE.



NOTE POSITION OF  
VALVE HANDLES

FLUSH MODE.



NOTE POSITION OF  
VALVE HANDLES

DRAWN: M.D.S.

CHECKED:

230mm MEDIA FILTER ( SAND )  
G. J. DIX & SONS; Remark SA.

DATE: 25/02/2010

FILE No: 1573

DIX-MF-230-01