



# Nexsand Media

## Sediment Filters

## Purion

## Product Guide

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## Contents

<b>Nexsand Media Sediment Filters - Clack Valves</b> . . . . .	<b>3</b>
Residential & Light Commercial . . . . .	3
C&I Series - 1.5" Clack Valves . . . . .	4
C&I Series - 2" Clack Valves . . . . .	5
C&I Series - 3" Clack Valves . . . . .	6

*Please note: Images in this product guide may vary and are a representation only. If you have any questions, please contact us for further information.*

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# Nexsand Media Sediment Filters - Clack Valves

Removal of dirt, silt, precipitated iron and organic matter



## Residential & Light Commercial

**RESIDENTIAL & LIGHT COMMERCIAL AUTOMATIC FILTERS WITH NEXSAND MEDIA FOR POTABLE & PROCESS WATERS - FEATURING CLACK VALVES**



### NEXSAND MEDIA

Nexsand media is a highly processed and refined natural high-purity clinoptilolite zeolite mineral. Nexsand is mined, crushed, sieved and kiln dried. It has a very high surface area and high porosity in addition to having surface micro-crystals that makes it ideal for sediment removal and turbidity reduction. Dependant on flow rate and water quality, filtration to the 3-5 micron range is achievable.

### Clack Valve



### CLACK AUTOMATIC CONTROL

The filters incorporate a 3-cycle valve with a variable timer control that backwash, purge, rinse and return to service at selected intervals e.g. every day, every week. Uses safe 12 volt power from wall - mountable transformer supplied. **BYPASS VALVE:** All models include a filter bypass valve to facilitate servicing.

### FRP Filter Tanks



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the filtration media.

### NHWP Valve



**NHWP** valves prevent untreated water going to service during backwash. Supplied with models with NHWP suffix.

MODELS	FILTER VESSEL Size - inches	IN / OUT mm	DRIAN mm	<sup>1</sup> FLOW RATE lpm	BACKWASH lpm	<sup>2</sup> INSTALLATION AREA w x d x h (cm)
WTWFXM09	9 x 48	25	20	25.0	28.0	30 x 55 x 145
WTWFXM09-NHWP	9 x 48	25	20	25.0	28.0	30 x 55 x 145
WTWFXM10	10 X 54	25	20	32.0	35.0	30 x 55 x 160
WTWFXM10-NHWP	10 X 54	25	20	32.0	35.0	30 x 55 x 160
WTWFXM12	12 X 52	25	20	45.0	50.0	32 x 55 x 155
WTWFXM12-NHWP	12 X 52	25	20	45.0	50.0	32 x 55 x 155
WTWFXM14	14 X 65	32	20	62.0	70.0	37 x 55 x 188
WTWFXM14-NHWP	14 X 65	32	20	62.0	70.0	37 x 55 x 188

<sup>1</sup>Guide only. Lower flow rates will be required for high sediment water. <sup>2</sup> If possible allow additional 500mm minimum height clearance to facilitate servicing. Minimum recommended backwash pressure 280 kpa. Max. inlet pressure 600 kpa with no water hammer. For open discharge e.g. tank filling, use NHWP model to provide back-pressure when filter is backwashing.

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# Nexsand Media Sediment Filters - Clack Valves

Removal of dirt, silt, precipitated iron and organic matter



## C&I Series - 1.5" Clack Valves

COMMERCIAL & INDUSTRIAL FILTERS FOR POTABLE & WASTE WATER. FEATURING CLACK VALVES

**NEXSAND** is a remarkable advance in media filtration technology. Based on a rare natural mineral that is highly processed and refined, Nexsand's unique properties have radically altered the performance and cost of media filtration. The hardness, stability and micro-porous character of nexsand makes it a perfect filtration media for virtually every application in the water and wastewater treatment industry.

### APPLICATIONS:

Potable Water Supplies • Cooling Towers – unequalled Turbidity removal • RO Pretreatment – superior SDI reduction • Municipal Water Treatment, pressure and gravity filters- higher flow, lower pressure drop and superior filtration performance • Wastewater Polishing – exceptional TSS removal • Precipitated metals removal • Irrigation

### FEATURES:

High filtration performance 3-5 micron removal • High capacity filtration throughout the entire Nexsand bed depth provides more than twice the capacity of multi-media filtration • High Service Flow, 3-4 times that of multimedia • Long lasting media (>5 years) with low attrition • Simple periodic backwash keeps the media clean and operating efficiently

### VALVE, CONTROL & CONFIGURATION OPTIONS:

Single or multiple filter configurations • Top-mount programmable 4-cycle automatic filter valves • Timer, water meter, pressure differential or external signal backwash initiation • Single, alternating or twin metered controls - sequential or parallel controls for multiple filters • Free-standing FRP fibreglass wrapped polyethylene filter tanks • No Hard Water Bypass (NHWB) valve option to prevent unfiltered water to service during backwash cycles • Motorised alternating valve (MAV) option for clean water backwashing.

#### Clack WS1.5 Valve



Automatic Control featuring water meter with microprocessor.

#### FRP Filter Tanks



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the filtration media.

#### Pressure Switch Assembly



Assembly for pressure differential backwashing.

#### MAV Valve



**OPTIONAL**  
Motorised Alternating Valve (MAV) option for clean water backwash or twin alternating filter configuration.

#### NHWB Valve



No Hard Water Bypass Valve (NHWB) to prevent unfiltered water to service during backwash.

FILTER MODEL	FILTER TANK (DxH) inches	IN / OUT mm	<sup>1</sup> SERVICE FLOW lpm	BACKWASH FLOW lpm	<sup>2</sup> INSTALL AREA w x d x h (cm)
WTWFDMI16-NHWB	16 x 65	40	80.0	80.0	46 x 51 x 270
WTWFDMI21-NHWB	21 x 62	40	133.0	133.0	58 x 64 x 262
WTWFDMI24-NHWB	24 x 72	40	178.0	178.0	66 x 72 x 287

<sup>1</sup>Flow rates are a guide only. Higher flow rates may be achieved with low sediment and turbidity water. Lower flow rates may be required for high sediment and turbidity waters. \*Guide only, filtration efficiency is dependent on raw water quality and flow rate. <sup>2</sup>Height includes 1.0 metre clearance above filter to facilitate installation and servicing. Minimum recommended backwash pressure 420 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use NHWBP option to provide back-pressure when filter is backwashing.

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# Nexsand Media Sediment Filters - Clack Valves

High Performance Filters for Potable Water & Wastewater



## C&I Series - 2" Clack Valves

COMMERCIAL & INDUSTRIAL FILTERS FOR POTABLE & WASTE WATER. FEATURING CLACK VALVES

**NEXSAND** is a remarkable advance in media filtration technology. Based on a rare natural mineral that is highly processed and refined, Nexsand's unique properties have radically altered the performance and cost of media filtration. The hardness, stability and micro-porous character of nexsand makes it a perfect filtration media for virtually every application in the water and wastewater treatment industry.

### APPLICATIONS:

• Potable Water Supplies • Cooling Towers—unequalled Turbidity removal • RO Pretreatment—superior SDI reduction • Municipal Water Treatment, pressure and gravity filters- higher flow, lower pressure drop and superior filtration performance • Wastewater Polishing – exceptional TSS removal • Precipitated metals removal • Irrigation

### FEATURES:

High filtration performance 3-5 micron removal • High capacity filtration throughout the entire nexsand bed depth provides more than twice the capacity of multi-media filtration • High Service Flow, 3-4 times that of multimedia with superior filtration • Long lasting media (>5 years) with low attrition • Simple periodic backwash keeps the media clean and operating efficiently

### VALVE, CONTROL & CONFIGURATION OPTIONS:

• Single filter or multiple-filter configuration • Free-standing, skid-mounted or containerised systems fully plumbed and wired • Timer, water meter, pressure differential or external signal backwash initiation • Single or twin, timer or metered control; or alternating, sequential or parallel controls for up to four filters • Top or side-mount 3 cycle automatic valves

#### Clack WS2 Valve



#### FRP Filter Tanks



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the filtration media.

#### Pressure Switch Assembly



**OPTIONAL**  
Differential Pressure Switch Assembly for pressure differential backwashing.

#### MAV Valve



**OPTIONAL**  
Motorised Alternating Valve (MAV) option for clean water backwash or twin alternating filter configuration.

#### NHWP Valve



No Hard Water Bypass Valve (NHWP) to prevent unfiltered water to service during backwash.

#### Clack WS2H Valve



FILTER MODEL	VALVE MODEL	INSTALLATION DIMENSIONS w x d x h (cm)	<sup>2</sup> Service Flow lpm	Backwash Flow lpm
WTWFDMI30-NHWP	WS2	78 X 78 X 225	280.0	280.0
WTWFDMI36-NHWP	WS2H	92 X 92 X 225	403.0	403.0

<sup>2</sup>Flow rates are a guide only. Higher flow rates may be achieved with low sediment and turbidity water. Lower flow rates may be required for high sediment and turbidity waters. Minimum recommended backwash pressure 420 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling) use NHWPB option to provide back-pressure when filter is backwashing. Refer Dowdens for information.

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# Nexsand Media Sediment Filters - Clack Valves

High Performance Filters for Potable Water & Wastewater



## C&I Series - 3" Clack Valves

COMMERCIAL & INDUSTRIAL FILTERS FOR POTABLE & WASTE WATER. FEATURING CLACK VALVES

**NEXSAND** is a remarkable advance in media filtration technology. Based on a rare natural mineral that is highly processed and refined, Nexsand's unique properties have radically altered the performance and cost of media filtration. The hardness, stability and micro-porous character of nexsand makes it a perfect filtration media for virtually every application in the water and wastewater treatment industry.

### APPLICATIONS:

• Potable Water Supplies • Cooling Towers—unequalled Turbidity removal • RO Pretreatment—superior SDI reduction • Municipal Water Treatment, pressure and gravity filters- higher flow, lower pressure drop and superior filtration performance • Wastewater Polishing – exceptional TSS removal • Precipitated metals removal • Irrigation

### FEATURES:

High filtration performance 3-5 micron removal • High capacity filtration throughout the entire nexsand bed depth provides more than twice the capacity of multi-media filtration • High Service Flow, 3-4 times that of multimedia with superior filtration • Long lasting media (>5 years) with low attrition • Simple periodic backwash keeps the media clean and operating efficiently

### VALVE, CONTROL & CONFIGURATION OPTIONS:

• Single filter or multiple-filter configuration • Free-standing, skid-mounted or containerised systems fully plumbed and wired • Timer, water meter, pressure differential or external signal backwash initiation • Single or twin, timer or metered control; or alternating, sequential or parallel controls for up to four filters • Top or side-mount 4 cycle automatic valves

#### Clack WS3 Valve



Automatic Control featuring water meter with microprocessor.

#### FRP Filter Tanks



Fibre Reinforced Plastic (FRP) Filter Vessels are used to hold the filtration media.

#### Pressure Switch Assembly



**OPTIONAL**  
Differential Pressure Switch Assembly for pressure differential backwashing.

#### MAV Valve



**OPTIONAL**  
Motorised Alternating Valve (MAV) option for clean water backwash or twin alternating filter configuration.

#### NHWP Valve



No Hard Water Bypass Valve (NHWP) to prevent unfiltered water to service during backwash.

FILTER MODEL TIMER MODEL	<sup>1</sup> FILTER TANK (DxH) inches	IN / OUT mm	<sup>2</sup> SERVICE FLOW lpm	BACKWASH FLOW lpm	<sup>3</sup> INSTALL AREA w x d x h (cm)
WTWFXM42-NHWP	42 x 72	80	548.0	548.0	115 x 127 x 350
WTWFXM48-NHWP	48 x 72	80	716.0	716.0	130 x 142 x 350

<sup>1</sup>Base and valve not included. <sup>2</sup>Flow rates are a guide only. Higher flow rates may be achieved with low sediment and turbidity water. Lower flow rates may be required for high sediment and turbidity waters. \*Guide only, filtration efficiency is dependant on raw water quality and flow rate. <sup>3</sup>Height includes clearance required above filter for media loading and servicing. Minimum recommended backwash pressure 420 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use NHWP option to provide back-pressure when filter is backwashing.

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