



Glass Media Filters

Clack Valves

Purion

Product Guide

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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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Glass Media Filters - Clack Valves

High Performance Filters for Potable Water & Wastewater



C&I SERIES - 1.5" Clack Valves

GLASS MEDIA: Manufactured from 100% recycled, crushed and treated fused silicon dioxide. The unique smooth surface of glass media discourages bio-mass growth making it ideal for potable, medical and laboratory applications. Unlike other medias Glass is less likely to clump with oil and grease and cleans easily with degreasers, making it ideal for carwash filtration.

Benefits: High filtration performance 5-10 micron* removal • Filtration throughout the entire bed depth for increased contaminant retention • High service flow with superior filtration over sand and mixed bed filters • Long lasting media (>5 years) with low attrition • Simple periodic backwash keeps the media clean and operating efficiently.

Features: 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.

Applications: Potable Water Supplies • Medical and laboratory • Car Wash • Cooling Towers • RO Pretreatment for SDI reduction • Municipal Water Treatment, pressure and gravity filters—higher flow, lower pressure drop and superior filtration performance • Wastewater Polishing for TSS reduction • Precipitated metals removal • Irrigation

WS1.5 Valve



Backwash Options:

- Time clock
- Pressure Differential

NHWB Valve



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

Note: For NHWB option add suffix '-NHWB' to filter model.

Filter Model	Valve Model	Filter Tank (dxh) inches	In/Out mm	¹ Service Flow lpm	Backwash Flow lpm	² Installed Area w x d x h (cm)
WTWFGM16	WS1.5	16 x 65	40	63.0	63.0	46 x 51 x 270
WTWFGM21	WS1.5	21 x 62	40	107.0	107.0	58 x 64 x 262
WTWFGM24	WS1.5	24 x 72	40	143.0	143.0	66 x 72 x 287

FRP Filter Tanks



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

Alternating Valve



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

Differential Pressure Switch Assembly



OPTIONAL Differential Pressure Switch Assembly for pressure differential backwashing.

¹Flow 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. ²Height 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 NHWB option to provide back-pressure when filter is backwashing. Refer to Dowdens for more information.

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Glass Media Filters - Clack Valves

High Performance Filters for Potable Water & Wastewater



C&I SERIES - 2.0" Clack Valves

GLASS MEDIA: Manufactured from 100% recycled, crushed and treated fused silicon dioxide. The unique smooth surface of glass media discourages bio-mass growth making it ideal for potable, medical and laboratory applications. Unlike other medias Glass is less likely to clump with oil and grease and cleans easily with degreasers, making it ideal for carwash filtration.

Benefits: High filtration performance 5-10 micron* removal • Filtration throughout the entire bed depth for increased contaminant retention • High service flow with superior filtration over sand and mixed bed filters • Long lasting media (>5 years) with low attrition • Simple periodic backwash keeps the media clean and operating efficiently.

Features: 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.

Applications: Potable Water Supplies • Medical and laboratory • Car Wash • Cooling Towers • RO Pretreatment for SDI reduction • Municipal Water Treatment, pressure and gravity filters—higher flow, lower pressure drop and superior filtration performance • Wastewater Polishing for TSS reduction • Precipitated metals removal • Irrigation

WS2 Valve Options: Single or Dual Filters • Top or Side-mount Valve • Time clock Backwash • Pressure Differential Backwash • Water Meter Backwash • Filtered Water Backwash • No Unfiltered Water Bypass.

WS2H Valve Options: Single, Dual, Triple or Quad Filters • Top or Side-mount Valve • Time clock Backwash • Pressure Differential Backwash • Water Meter Backwash • Filtered Water Backwash • No Unfiltered Water Bypass.

WS2 Valve



WS2H Valve



NHWB Valve



OPTIONAL No Hard Water Bypass Valve (NHWB) to prevent unfiltered water to service during backwash.
Note: For NHWB option add suffix '-NHWB' to filter model.

Filter Model	Valve Model	Filter Tank (dxh) inches	In/Out mm	¹ Service Flow lpm	Backwash Flow lpm	² Installed Area w x d x h (cm)
WTWFGM30	WS2	50	40	223.0	223.0	81 X 86 X 295
WTWFGM36	WS2H	50	40	322.0	322.0	97 X 102 X 295

FRP Filter Tanks



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

Alternating Valve



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

Differential Pressure Switch Assembly



OPTIONAL Differential Pressure Switch Assembly for pressure differential backwashing.

¹Base and valve not included. ²Flow 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. Minimum recommended backwash pressure 420 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use NHWB option to provide back-pressure when filter is backwashing.

Glass Media Filters - Clack Valves

High Performance Filters for Potable Water & Wastewater



C&I SERIES - 3.0" Clack Valves

GLASS MEDIA: Manufactured from 100% recycled, crushed and treated fused silicon dioxide. The unique smooth surface of glass media discourages bio-mass growth making it ideal for potable, medical and laboratory applications. Unlike other medias Glass is less likely to clump with oil and grease and cleans easily with degreasers, making it ideal for carwash filtration.

Benefits: High filtration performance 5-10 micron* removal • Filtration throughout the entire bed depth for increased contaminant retention • High service flow with superior filtration over sand and mixed bed filters • Long lasting media (>5 years) with low attrition • Simple periodic backwash keeps the media clean and operating efficiently.

Features: 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

Applications: Potable Water Supplies • Medical and laboratory • Car Wash • Cooling Towers • RO Pretreatment for SDI reduction • Municipal Water Treatment, pressure and gravity filters—higher flow, lower pressure drop and superior filtration performance • Wastewater Polishing for TSS reduction • Precipitated metals removal • Irrigation

WS3 Valve



WS3 Valve Options: Single, Dual, Triple or Quad Filters • Top-mount or Side-mount Valve • Time clock Backwash • Pressure Differential Backwash • Water Meter Backwash • Filtered Water Backwash • No Unfiltered Water Bypass

NHWB Valve



OPTIONAL No Hard Water Bypass Valve (NHWB) to prevent unfiltered water to service during backwash.
Note: For NHWB option add suffix NHWB' to filter model.

Filter Model	Valve Model	Filter Tank (dxh) inches	In/Out mm	¹ Service Flow lpm	Backwash Flow lpm	² Installed Area w x d x h (cm)
WTWFGM42-NHWB	WS3	42 x 72	80	433.0	433.0	115 x 127 x 350
WTWFGM48-NHWB	WS3	48 x 72	80	566.0	566.0	130 x 142 x 350

FRP Filter Tanks



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

Alternating Valve



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

Differential Pressure Switch Assembly



OPTIONAL Differential Pressure Switch Assembly for pressure differential backwashing.

¹Base and valve not included. ²Flow 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. ³Height 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 NHWBP ion to provide back-pressure when filter is backwashing. Refer to Dowdens for more information.

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High Performance Filters for Potable Water & Wastewater



Residential & Light Commercial

RESIDENTIAL & LIGHT COMMERCIAL AUTOMATIC GLASS MEDIA FILTER SYSTEMS FOR POTABLE & WASTEWATER

GLASS MEDIA



Manufactured from 100% recycled, crushed and treated fused silicon dioxide. The unique smooth surface of glass media discourages bio-mass growth making it ideal for potable, medical and laboratory applications. Unlike other medias, Glass is less likely to clump with oil and grease and cleans easily with degreasers, making it ideal for carwash filtration.

Clack Filter Valve with Bypass



CLACK FILTER VALVE & 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.

NHWP Valve



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



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

Filter Model	Filter Vessel size (inches)	In/Out (mm)	Drain (mm)	¹ Max Flow lpm	Backwash Flow - lpm	² Install Area w x d x h (cm)
WTWFGM09	9 x 48	25	20	25.0	28.0	30 x 55 x 145
WTWFGM09-NHWP	9 x 48	25	20	25.0	28.0	30 x 55 x 145
WTWFGM10	10 X 54	25	20	32.0	35.0	30 x 55 x 160
WTWFGM10-NHWP	10 X 54	25	20	32.0	35.0	30 x 55 x 160
WTWFGM12	12 X 52	25	20	45.0	50.0	32 x 55 x 155
WTWFGM12-NHWP	12 X 52	25	20	45.0	50.0	32 x 55 x 155
WTWFGM14	14 X 65	32	20	62.0	70.0	37 x 55 x 188
WTWFGM14-NHWP	14 X 65	32	20	62.0	70.0	37 x 55 x 188

¹Guide only. Lower flow rates will be required for high sediment water. ² 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. Refer to Dowdens for more information.

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