

RAINWATER RE-USE SYSTEMS

HYSAVE DIVERSION



FEATURES

The HYSAVE DIVERSION system is designed for reliable and failsafe rainwater collection in all commercial applications. When a storage tank is full the HYSAVE DIVERSION systems valve will close, which stops any inflow from entering the storage tank. All further rainwater is then directed to drain.

FAILSAFE OPERATION:

- > Failsafe operation provides peace of mind for the consultant, installer, and building owner. This is achieved by ensuring the valve will close preventing potential floods in the following events;
- > Power failure
- > Level Control float switch disruption, disconnection and cable damage

CONTROLLER:

The HYSAVE DIVERSION system valve controller is compact, easy to install and operate.

- Plug-in wire connections eliminating site wirings.
- 240 volts power supply plug and lead.
- > Indication for;
- > Diversion valve OPEN
- > Diversion valve CLOSED

- > Valve monitoring and controllability
- > Communication via BACnet, MS/TP, Modbus RTU.

LEVEL SENSOR:

- > HYFLOW differential level sensor
- > 10 metre cable
- > Plug-in connection adaptor

DIVERSION VALVE & PIPEWORK CONNECTION:

- > Manual valve override enables the valve to be opened for installation, or maintenance purposes
- > Flanged wafer type with ductile iron body, stainless steel disc and EPDM seal
- > Option of pipework connection to DWV or HDPE

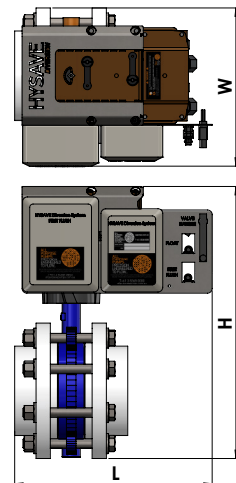


30 YEARS INDUSTRY EXPERIENCE

MODEL NUMBER DESIGNATION

MODEL	HYD.	100D	FS.	RE
TYPE RANGE				
HYD HYSAVE Diversion	↑	↑	↑	↑
PIPE WORK: SIZE, MATERIAL				
100D 100mm DWV		↑		
150D 150mm DWV		↑		
225D 225mm DWV		↑		
300D 300mm DWV		↑		
110P 110mm HDPE		↑		
160P 160mm HDPE		↑		
250P 250mm HDPE		↑		
315P 315mm HDPE		↑		
FIRST FLUSH				
00 Without First Flush			↑	
FS Flow Sensor First Flush			↑	
RS Rain Sensor First Flush			↑	
REDUNDANCY				
00 No Redundancy				↑
RE With Redundancy				↑

DIMENSIONS



RANGE

MODEL	DESCRIPTION	POWER REQUIREMENT	HYSAVE DIVERSION DIMENSION				
			SIZE DWV/HDPE (mm)	L	W	H	C
HYSAVE DIVERSION	Includes all of the above features. (Pipework, Range and Options must be selected to complete the system)	240 volt/10 amp GPO (at each valve location)	100/110	590/500	320	525	500
			150/160	420/550	350	590	500
			225/250	480/650	410	730	500
			300/315	550/650	460	800	500
EXTENSION CABLE	FLOAT	20 meter Float Switch Cable extension with plug-in connection adaptors					
	FIRST FLUSH	20 meter First Flush Flow & Rain sensor cable extension with plug-in connection adaptors					
PIPEWORK	SIZE	100/110, 150/160, 225/250, 300/315					
	MATERIAL	DWV Solvent weld/HDPE for electrofusion connection					

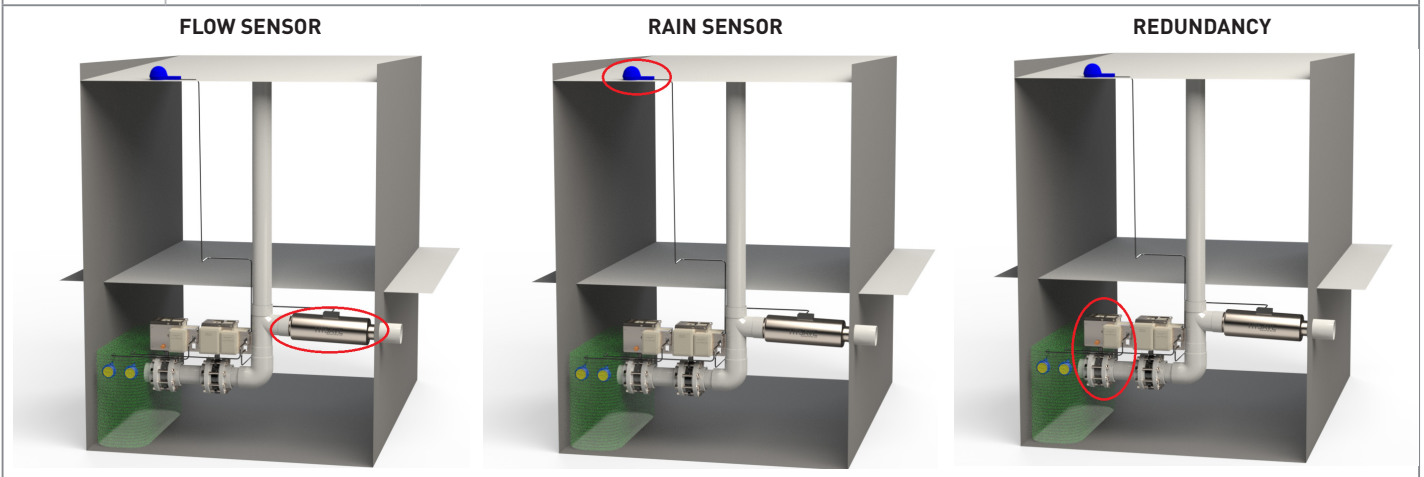


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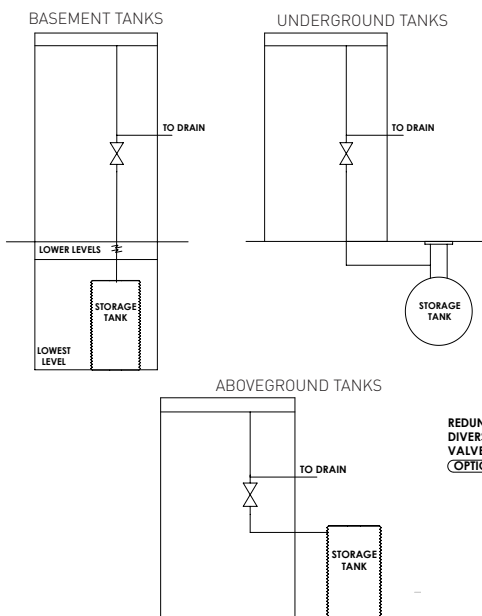
OPTIONS SELECTION

FIRST FLUSH	The HYSAVE DIVERSION FIRST FLUSH options ensure only quality water enters the storage tank by diverting the first flow of contaminated rainwater to drain. Once the roof area is washed water is then sent to the storage tank	FLOW SENSOR An easy to install and trouble free inpipe flow sensor measures rainfall that has fallen. The flow sensor overcomes issues experienced with traditional rain sensors as follows; > No requirement for cable routing to Rain Sensor location on roof of building > Easy installation and maintenance, thanks to the Flow Sensor being able to be located in close proximity to the Diversion Controller which eliminates the potential requirement of working at heights on a roof area. INSTALLATION: Locate where it will receive flow at all times (Refer below Typical Arrangement). SIZE: (300PVC/POLY) L: 1310mm, W: 350mm, H: 780mm CABLE LENGTH: 10 meters RAIN SENSOR The Rain Sensor is an optical measuring device that surpasses the performance, reliability and ease of installation than the traditional tipping bucket type sensor. It measures the amount of water that has fallen. INSTALLATION: Locate and mount in an unobstructed roof top area. CABLE LENGTH: 10 meters
REDUNDANCY	The HYSAVE DIVERSION Redundancy provides a back-up valve which operates simultaneously to the main valve. This option provides added flood protection in the event of valve failure and/or debris entrapment causing a valve not to close.	

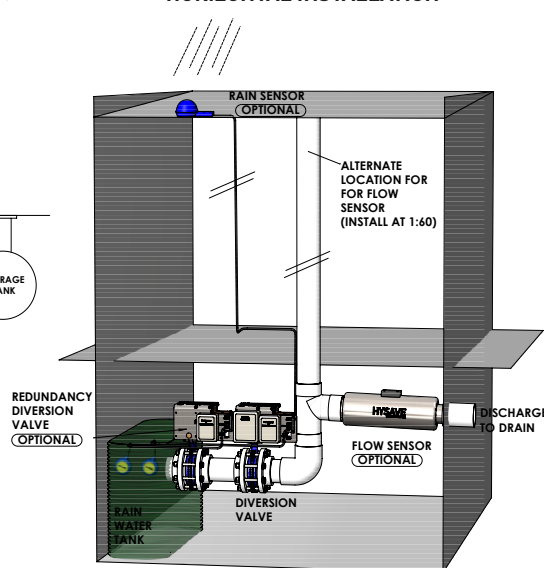


TYPICAL ARRANGEMENT

STORAGE TANK LOCATION



DIVERSION VALVE HORIZONTAL INSTALLATION



DIVERSION VALVE VERTICAL INSTALLATION

