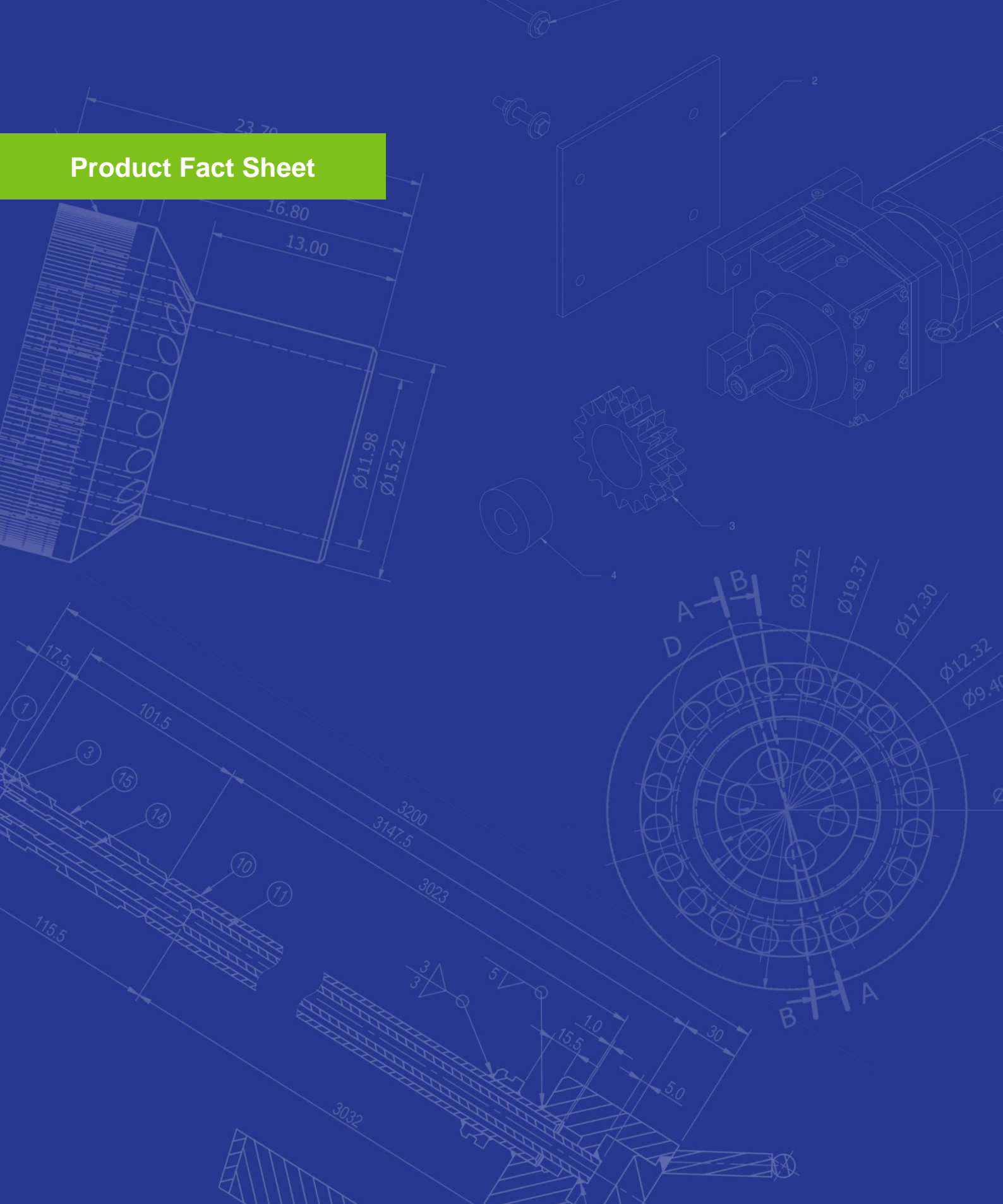
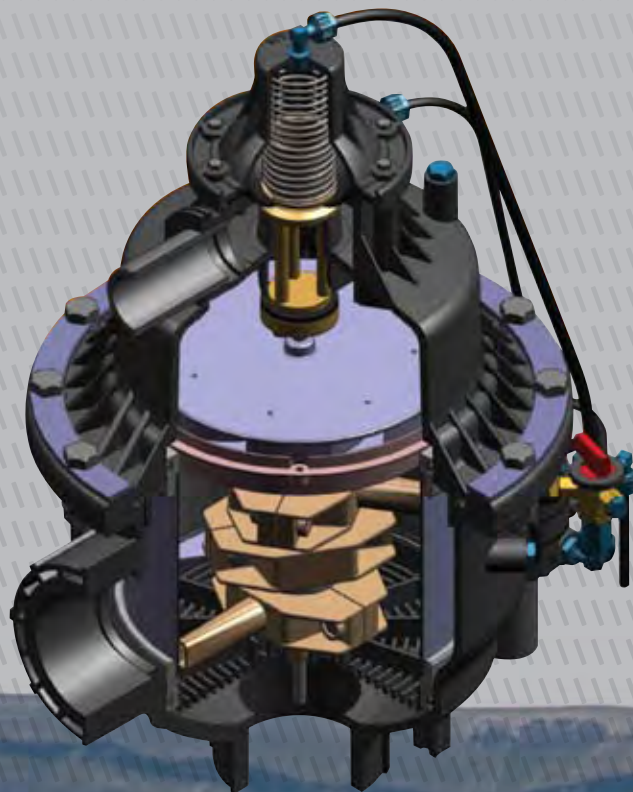


Product Fact Sheet





FILTRATION - HYDRALINE SERIES

WINNOW™
WSP FILTER

WSP FILTER

A fully automatic self-purging water filtration module featuring Winnow’s proven hydraulic turbine powered screen cleaning system. The self-contained design is driven by water inlet pressure only, making it ideal for installation in the remotest locations where there is no power supply available and ultra-low maintenance and reliability is paramount.

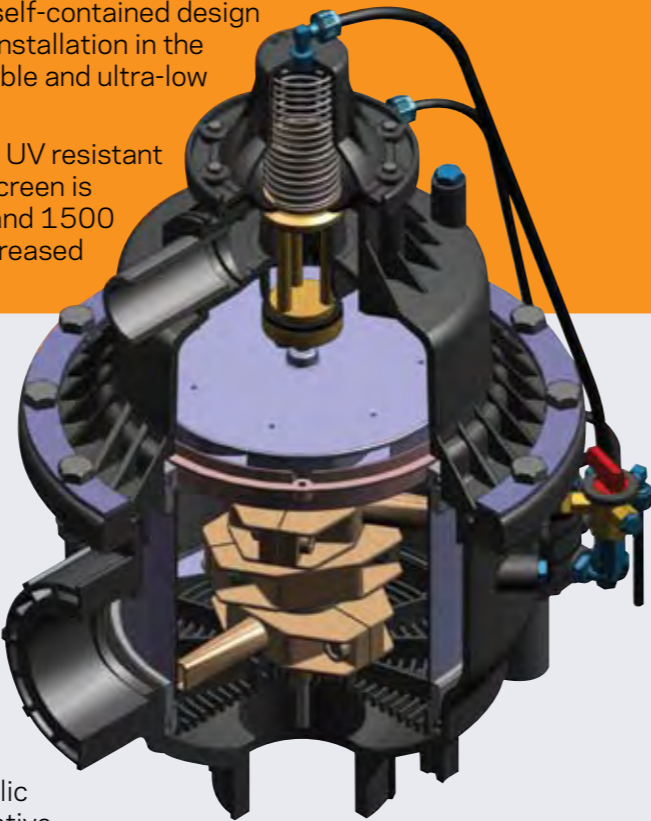
Winnow™ WSP filter housing is manufactured from tough UV resistant fibreglass reinforced polyamide and the stainless steel screen is available with a range of filtration ratings between 100 and 1500 micron. Modules may be connected in tandem where increased capacity is required.

FILTRATION PROCESS

Water enters through the inlet connection and passes through the coarse primary screen into the centre of the multilayer fine screen element. Water flows through the fine screen from the inside to outside and solids are retained on the screen surface. Filtered water flows out through the outlet connection. During filtration, drain purge valve remains shut.

CLEANING PROCEDURE

Filter cleaning cycle automatically starts when a pressure drop across the screen is identified. The hydraulic controller opens the drain purge valve and a relative negative pressure is created at the suction pad heads and within the hydraulic turbine causing the assembly to rotate. The rotating suction heads spiral upwards and then downwards cleaning the entire screen area. Cleaning cycle is brief, flush water consumption is minimal and there is no interruption to the filtration flow during the cycle.



TECHNICAL DATA

MODEL	Inlet/Outlet	Flow (m³/h)	Min. Working Pressure (bar.)	Max. Working Pressure (bar.)	Screen Area (cm²)	Max. Working Temp. (°C)
WSP 2"	2" BSP	15-25	2.5	8	785	50
WSP 3"	3" BSP	15-30	2.5	8	785	50

Flow rate based on 130 Micron Screen.

CLEANING DATA

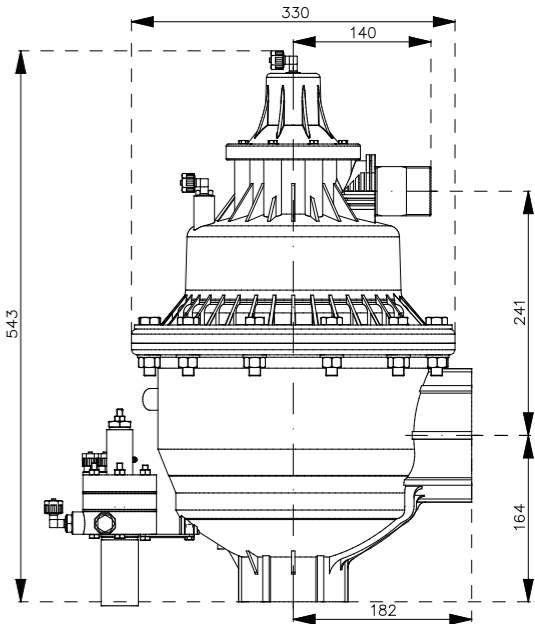
MODEL	Flush Valve (mm / plug)	Flush Cycle Time (sec.)	Water Consumption (L)	Min. Flow (m³/h)
WSP 2"	50 mm / 1 1/2"	10 (*)	33	15
WSP 3"	50 mm / 1 1/2"	10 (*)	33	15

(*) Depending on working pressure.

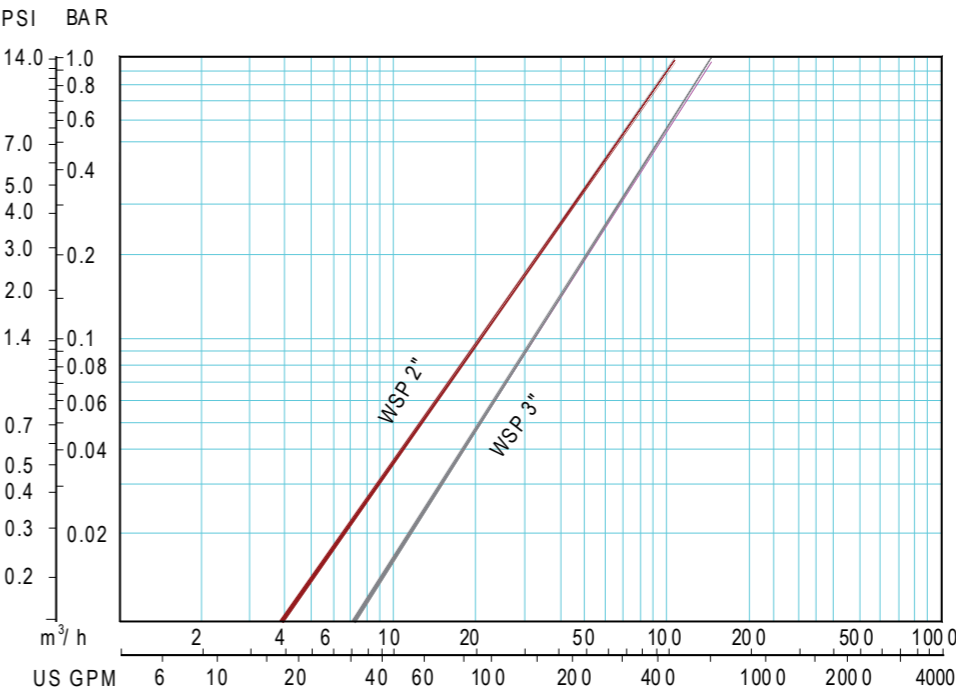
MATERIALS	
Filter housing	Fiberglass Reinforced Polyamide
Screen	304 Stainless Steel
Cleaning mechanism	PPO, PA, 304 Stainless Steel
Seals	EPDM
Tubing	PET
Hydraulic piston	304 Stainless Steel & Brass
Controls	Aluminium, Brass, 304 Stainless Steel, Acetal

AVAILABLE FILTER ELEMENTS	Double-layer screen			Four-layer screen		
Microns	1500	1000	500	200	130	100
Mesh	10	18	30	75	120	155

DIMENSIONS



PRESSURE LOSS



Product Fact Sheet



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