FLOAT VALVE

HIGH PERFORMANCE, COMPACT FLOAT VALVE FOR LARGE AND MEDIUM TROUGHS WITH HIGH DEMAND

TECHNICAL MANUAL





Philmac OptiPHIL float valves are high-performance, compact, full-flow float valves that are designed for the automatic filling of medium to large, or high-demand troughs, tanks, and cisterns. They are suitable for installation above or below the waterline (side, bottom, and top).

PTI PRODUCT FEATURES & BENEFITS

SMOOTH-FLO DESIGN

Optimises water flow out of the valve, reducing turbulence, minimizing float bounce, cutting water spray, and saving your pump.

OPTI-FLO TECHNOLOGY

Patent protected, Opti-Flo technology, optimizes water flow through the valve to help prevent blockages & improve performance in dirty water.

SOFT-CLOSE

Patent protected, soft closing design for reliable shut-off & preventing damaging water-hammer.

FULL FLOW

Full flow design, providing flows up to 847 L/min, and preventing pump short cycling, saving your pump and energy.

HIGH VIS FLOAT

High Vis orange float for fast easy identification of water level from a distance.



Maintaining water levels in:

Animal Drinking Troughs Irrigation Applications

Water storage tanks

OPTI PRINCIPLES OF OPERATION



Fully Open











Philmac warrants OptiPHIL against defects in material and workmanship for a period of 2 years starting upon the later of the date of manufacturing stamped on the product or the date of purchase of the products.

This warranty is subject to the terms and conditions found on our website:

https://www.philmac.com.au/warranty-statement/

OPTI CHEMICAL RESISTANCE

Chemical	Suitable	Not Recommended
Fresh Water	x	
Sea Water	x	
Brine	x	
Chlorine Water (5-10 ppm)		x
Acetic Acid (10%)		x
Acetic Acid (50%)		x
Alochol (ethanol)	x	
Ethyl Alcohol (ethanol)	x	
Ammonium Nitrate		x
Calcium Carbonate	x	
Calcium Chloride		x
Calcium Nitrate		x
Calcium Sulphate		x
Citric Acid	x	
Copper Sulphate >5%		x
Silicone Oil	x	
Diesel (fuel)		x
Petrol		x
Kerosene		x
Fuel Oil (Diesel)		x
Fuel Oil		x
Turbine Oil		x
Hydraulic Oil (Petro)	x	
Hydraulic Oil (Synthetic)	x	
Mineral Oil	x	
Hydrochloric Acid (10%)		x
Hydrochloric Acid (30%)		x
Magnesium Nitrate	x	
Magnesium Sulphate	x	
Nitric Acid (10%)		x
Nitric Acid (40%)		x
Phosphoric Acid (85%)		x
Potassium Chloride	x	
Potassium Nitrate	x	
Potassium Sulphate	x	
Sodium Bicarbonate	x	
Sodium Hypochlorite (<10%)		x
Sulphuric Acid (10%)		x
Sulphuric Acid (30%)		X
Urea	X	
Zinc Nitrate	X	
Zinc Suphate	x	

* The OptiPHIL Float valve is intended for use in agricultural stock watering and other water applications. The advice provided above is general in nature only and not intended to replace specific chemical guidance. Philmac makes every endevour to ensure the accuracy of its information For any specific questions or chemical advice, please contact Philmac.



Standard Float Valve Side View Dimensions

Standard Float Valve Side View Dimensions 1-1/4" Adaptor





Standard Float Valve Front View Dimensions



Standard Float Valve Side ViewDimensions ³/₄" Adaptor



OPTI INSTALLATION INSTRUCTIONS

MOUNTING POSITIONS







Above water - Overhead

Above water - Side wall

* Water outlet position can be adjusted by removing the cap and rotating the body 90°



Below water - Side wall

lever reverse*



Below water - Bottom mount

ABOVE WATER INSTALLATION



Apply PTFE tape in a clockwise direction



Screw in the float valve by hand, valve is suitable for final tightening with a wrench



Ensure float valve is in the vertical position

BELOW WATER INSTALLATION



Remove small R-Pin that holds the pivot pin in place

Reinstall float frm using pivot pin and

replace the R-Pin

6



Remove pivot pin, dispose of spring cover



Using a Phillips head screwdriver unscrew Float



Unclip damper spring from cap



Attach float to float arm using supplied cord and anti-tangle tube (trimmed to suit)



Remove spring retainer from float arm and remove damper spring



Screw float valve into position and thread string through plastic tube and attach to float



Spring retainer and damper spring are not required for underwater installation



Adjust length of Cord to suit application

Sales & Contact Centre

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Online Resources

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The connection you can trust.