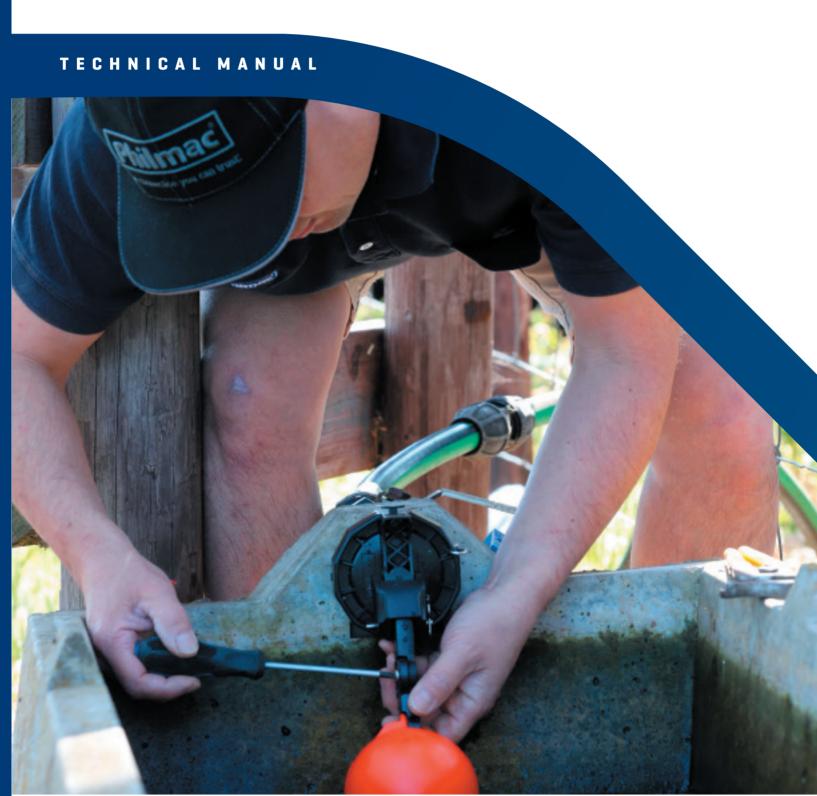




1" Above Water & Under Water Float Valves





PRODUCT NO.	DESCRIPTION	ORDER QUANTITY	CARTON QUANTITY		
OptiPHIL Above Water Float Valve Includes Float, Adaptors					
93 6001 10	OptiPHIL Float Valve 1" with adaptors	1	9		
OptiPHIL Und	er Water Float Valve Includes Float, Adaptors,	Cord and Anti-Tangle T	ube		
93 6001 20	OptiPHIL Float Valve 1" with adaptors	1	9		
OptiPHIL Spar	re Parts & Components				
91 4700 02	3/4" Parallel Tail Adaptor (suits Versa & OptiPHIL)	1	20		
91 4700 03	1" Parallel Tail Adaptor (suits Versa & OptiPHIL)	1	20		
43 6111 13	S/P OptiPHIL Diaphragm	1	-		
CODE	Cord	1	-		
CODE	Anti-Tangle Tube	1	-		



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).

OPTI

Product Features & Benefits

Smooth-Flo Design

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

Opti-Flo Technology

Patent protected, Opti-Flo technology, optimises 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.

Flexible Water Level

New compact arm and arm extension provides fast, easy and flexible water level adjustments for all applications.



Applications

Maintaining water levels in:

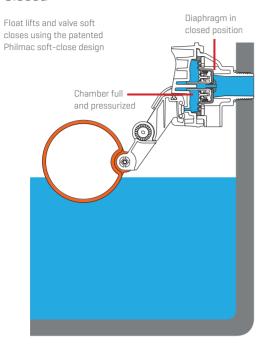
Animal Drinking Troughs
Irrigation Applications

Water storage tanks

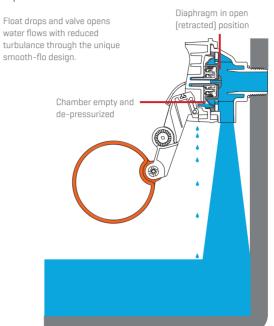


Principles of Operation

Closed

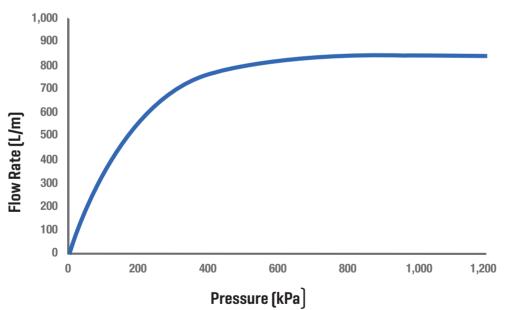


Open



OPTI

Performance Data



* Independently tested by University of South Australia (AFMG), NATA accredited laboratory



Flow Rate: 847 L/min @ 1,200 kPa



Static Shut-off: 1,200 kPa



Temperature: suitable for cold water applications [1° to 60° Celsius]



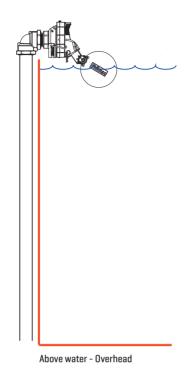
Working Pressure: 10 – 1,200 kPa [1.5 – 175 psi], with a minimum water flow of 1L/min

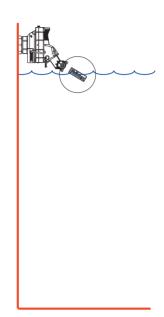


Large or high demand troughs



Mounting Positions - Above Water

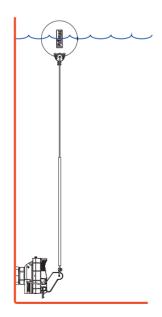




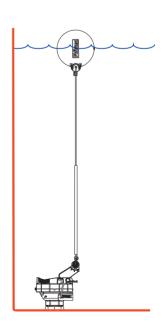
Above water - Side wall



Mounting Positions - Under Water



Below water - Side wall lever reverse*



Below water - Bottom mount

OPTL Installation instructions - Above Water

Compact lever above water installation



Valve is supplied pre-assembled for 1" compact lever above water installation. Apply PTFE thread tape to thread in a clockwise direction, ensuring thread is adequately covered.



Screw the float valve into the trough inlet, using the body, by hand until



Valve body is suitable for final tightening with a wrench/multigrips to ensure perpendicular.



Using a Phillips head screwdriver adjust the float to one of the three positions on the lever to achieve desired water level

Float lever extension & adjustment



Unscrew the float using Phillips head



Attach supplied lever extension to



The lever has 3 positions for flexibility and easy adjustment of the water level



Attach the float which also has three positions of adjustment



Ensure valve is perpendicular and turn on the water supply



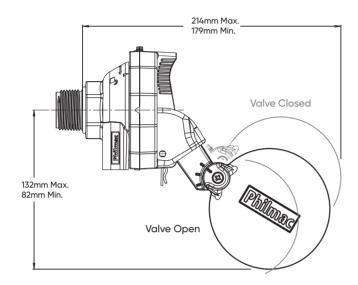
Dimensions - Above Water Compact Lever

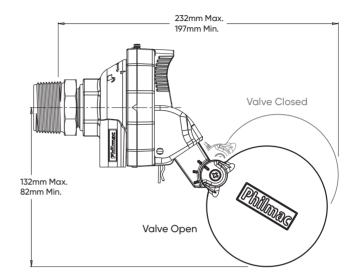
Compact Lever Float Valve

Side View Dimensions

Compact Lever Float Valve

Side View Dimensions 1-1/4" Adaptor

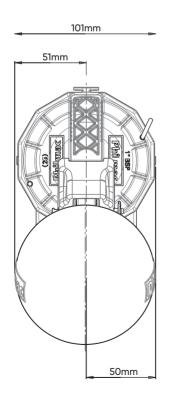


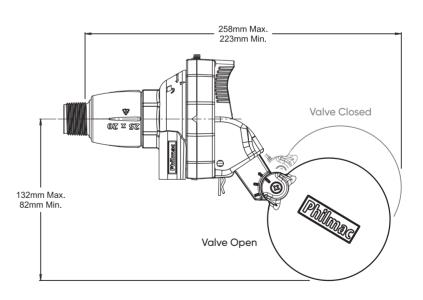


Compact Lever Float Valve

Front View Dimensions

Compact Lever Float Valve







Dimensions - Above Water with extended lever

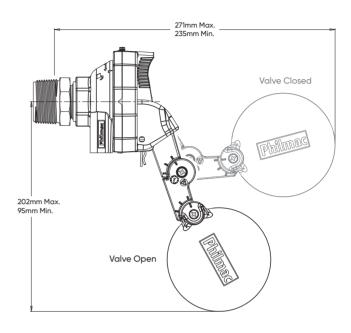
Extended Lever Float Valve

Side View Dimensions

253mm Max. 217mm Min. Valve Closed Valve Closed Valve Open

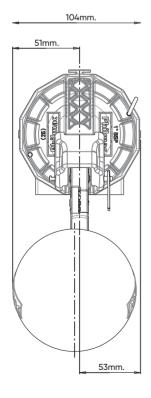
Extended Lever Float Valve

Side View Dimensions 1-1/4" Adaptor

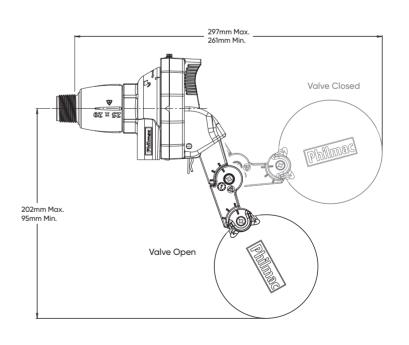


Extended Lever Float Valve

Front View Dimensions



Extended Lever Float Valve



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Installation Instructions - Under Water

Under water side entry installation



Secure one end of cord to the float



Apply PTFE Tape in clockwise direction, ensuring thread is adequately covered.



Screw the float valve into the trough inlet, using the body, by hand until tight.



Valve body is suitable for final tightening with a wrench/multigrips to ensure valve is perpendicular.



Apply anti-tangle tubing to the cord.



Trim the anti-tangle tube if required and secure loose end of cord to float.



Check float position against side of trough.



Water level can be adjusted by adjusting the length of cord at the float end. When desired level is set trim excess cord.

Inverting the lever for bottom entry installation



Using pliers remove R-clip that secures the pivot pin.



Using pliers remove the pivot pin.



Take the lever arm from its supplied position.



Invert the lever arm ensuring the lever points to the bottom of the valve.



Replace the pivot pin.



Replace the R-clip securing the lever, then follow steps 1-8 above.



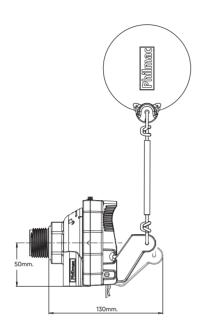
Dimensions - Under Water Side Entry

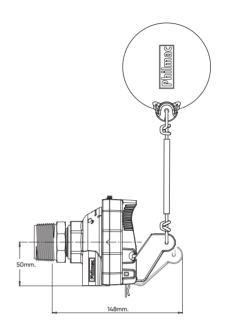
Under Water Float Valve

Side View Dimensions

Under Water Float Valve

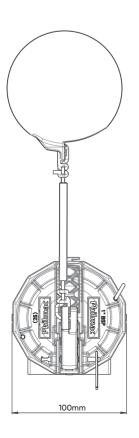
Side View Dimensions 1-1/4" Adaptor



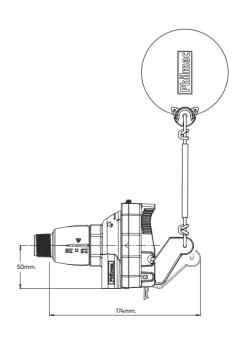


Under Water Float Valve

Front View Dimensions



Under Water Float Valve





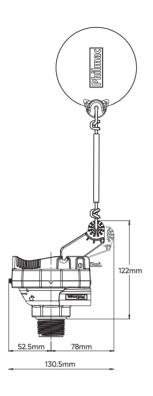
OPTI Dimensions - Under Water Bottom Entry

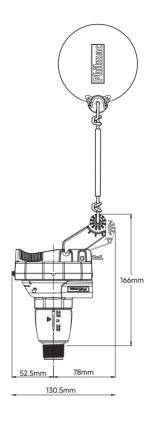
Under Water Float Valve

Side View Dimensions

Under Water Float Valve

Side View Dimensions 1-1/4" Adaptor



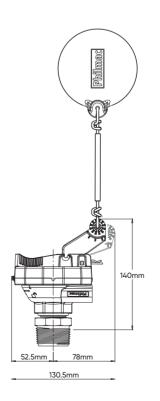


Under Water Float Valve

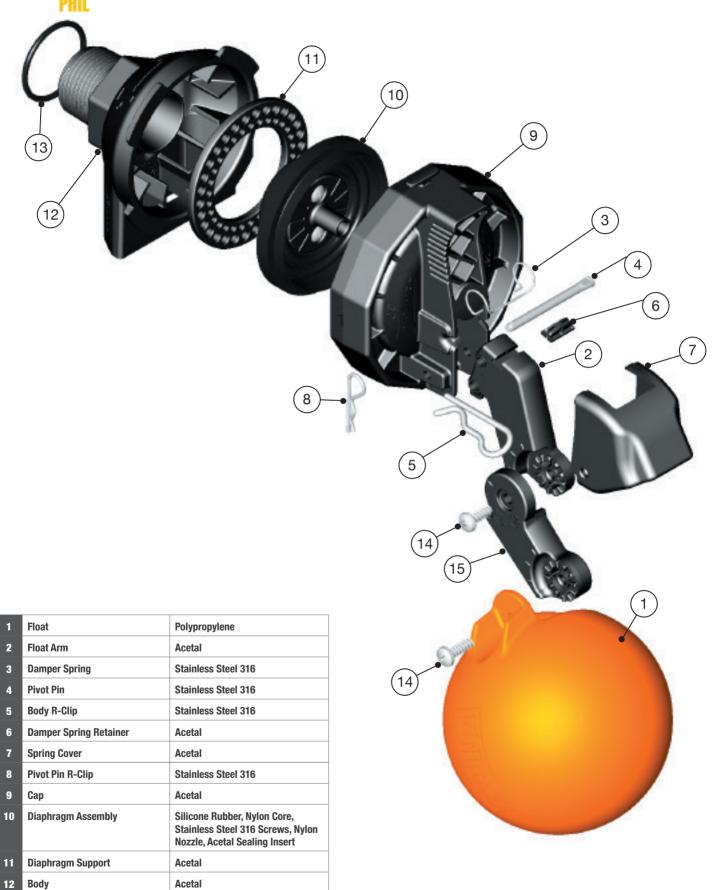
Front View Dimensions

Under Water Float Valve





OPTI Parts & Materials - Above Water



Nitrile Rubber

Acetal

Stainless Steel 316

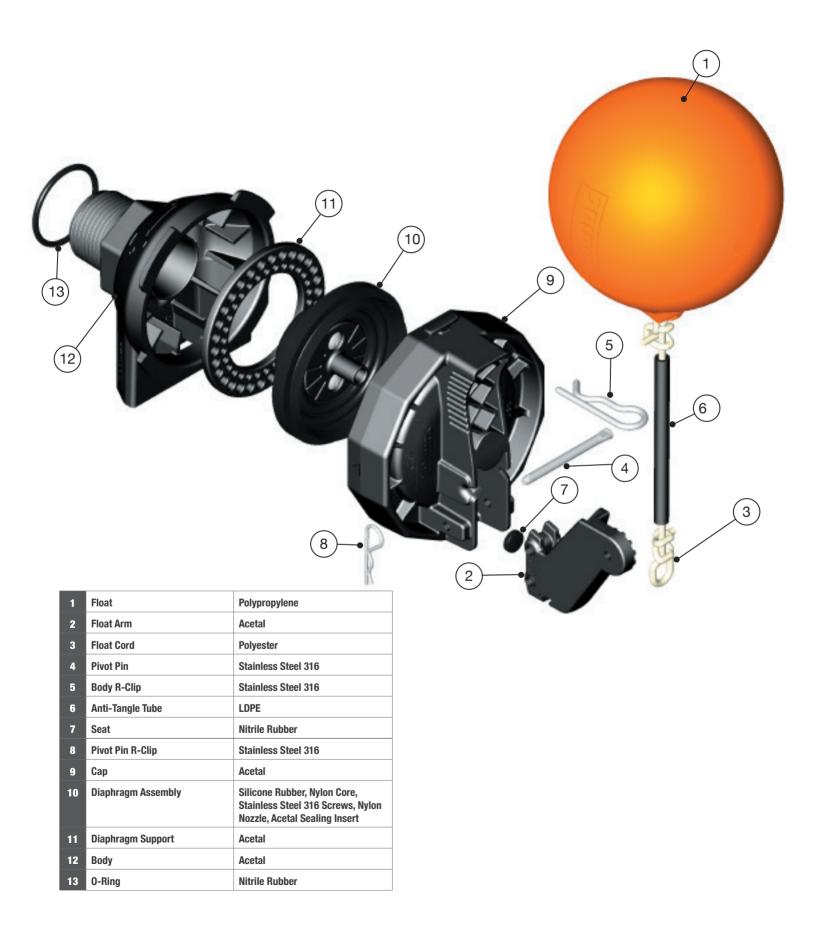
0-Ring

Screw

Float Arm Extension

13

OPTI Parts & Materials - Under Water





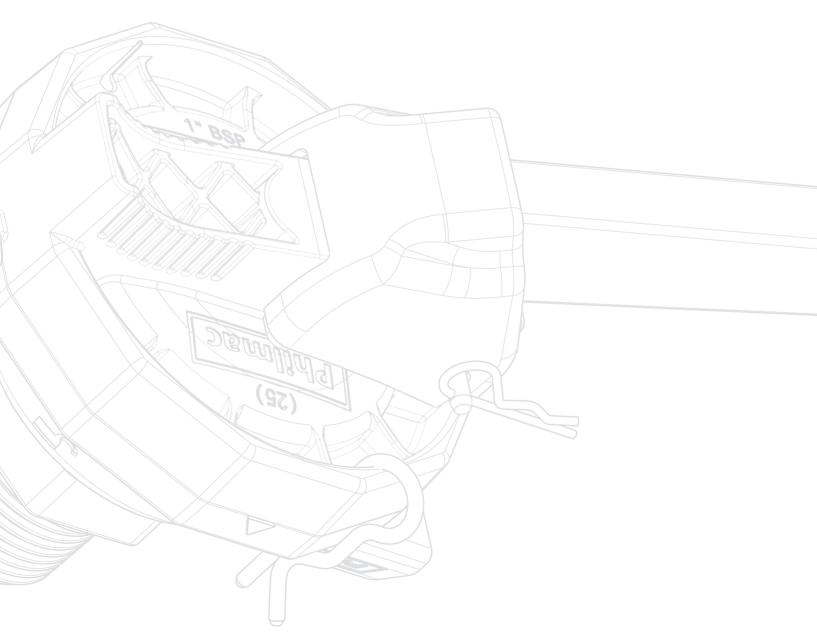
OPTI Chemical resistance

Chemical	Suitable	Not Recommended
Fresh Water	Х	
Sea Water	Х	
Brine	Х	
Chlorine Water (5-10 ppm)		x
Acetic Acid (10%)		x
Acetic Acid (50%)		x
Alochol (ethanol)	Х	
Ethyl Alcohol (ethanol)	Х	
Ammonium Nitrate		x
Calcium Carbonate	Х	
Calcium Chloride		x
Calcium Nitrate		x
Calcium Sulphate		x
Citric Acid	Х	
Copper Sulphate >5%		×
Silicone Oil	Х	
Diesel (fuel)		x
Petrol		X
Kerosene		x
Fuel Oil (Diesel)		x
Fuel Oil		X
Turbine Oil		X
Hydraulic Oil (Petro)	Х	
Hydraulic Oil (Synthetic)	Х	
Mineral Oil	Х	
Hydrochloric Acid (10%)		X
Hydrochloric Acid (30%)		X
Magnesium Nitrate	Х	
Magnesium Sulphate	Х	
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.

OPTI Warranty

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.



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Online Resources

www.philmac.com.au www.youtube.com/user/PhilmacAustralia

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The connection you can trust.