

ACV: Watermarked Tank Fill Valve

Series: WA-M110

Size: DN65-DN150

The Watts Watermarked Tank Fill Valve consists of the hydraulic control valve and adjustable floating ball valve.

This hydraulically controlled, diaphragm actuated control valve regulates tank filling to maintain constant water level, for applications such as water tanks or reservoirs in industrial enterprises and residential buildings.

KEY FEATURES

- Certified to Australian Standard 5081 for control valves
- Certified to AS4020 for drinking water
- Stainless steel trim as standard, for greater reliability & service life
- Upstream pressure gauges as standard, for ease of setting and confidence in performance
- Controls the main valve opening and closing through floating ball valve, ensuring water level inside the water tank keeps given height
- The main valve opening or closing speed can be adjusted by the needle valve



TECHNICAL DATA

Minimum Recommended Temperature	0°C
Maximum Recommended Temperature	80°C
Maximum Working Pressure	1600kPa
Test Pressure	2400kPa
Seat Test Pressure	1760kPa
Seat Material	Stainless Steel
Body Material	Ductile Iron
Diaphragm Material	Nylon Reinforced NBR
Stem Material	Stainless Steel
Seal Material	NBR
Needle Valve Material	Brass/Bronze
Fittings Material	Brass/Bronze
Tubing Material	Copper
Coating Material	Epoxy Resin, NSF Certified Coating
Bonnet Material	Ductile Iron
Pilot System Fittings Material	Stainless Steel
Pilot System Control Tubing Material	Stainless Steel
Inlet Connection	Flanged to AS2129 Table E
Outlet Connection	Flanged to AS2129 Table E
Working Medium	Non corrosive liquids

PRODUCT CODES

ACV-065-FTF-TEWM	65mm ACV Tankfill M110 Mustang TE W/Marked
ACV-080-FTF-TEWM	80mm ACV Tankfill M110 Mustang TE W/Marked
ACV-100-FTF-TEWM	100mm ACV Tankfill M110 Mustang TE W/Marked
ACV-150-FTF-TEWM	150mm ACV Tankfill M110 Mustang TE W/Marked

Optional Kit

ACV-FLT-100	Plastic Float to Suit ACV-FTF-15-250mm
ACV-FV-15-250	15mm Float Valve UltraPhil c/w 250 Lever Arm

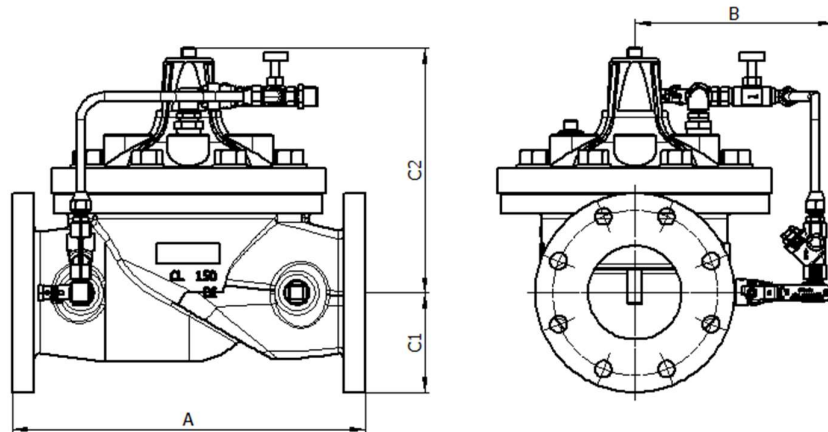


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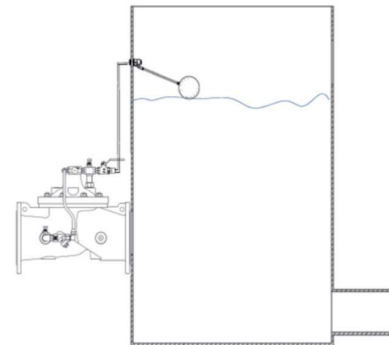
DIMENSION DATA



Size(DN)	A(mm)	B(mm)	C1(m)	C2(mm)
DN65	279.5	180	82.5	218
DN80	304.8	232	92.5	228
DN100	381	216	107.5	266
DN150	508	250	140	330

INSTALLATION INSTRUCTIONS

- (1) In the process of transportation and installation, valve must be packed and handled with care to avoid surface coatings and accessories damage.
- (2) Water supply pipeline should be washed before floating ball valve installation, eliminating sand, gravel and other debris in the pipe.
- (3) The flow direction from inlet to outlet should be paid attention to in installation, and maintenance space around the valve is convenient to assemble.
- (4) The inlet and outlet of main valve should be installed with gate valve or butterfly valve for easy maintenance.
- (5) Make sure the float ball is 1.5m away from outlet of main valve while installing, to prevent water wave from damaging float ball, however, float ball will be allowed to close if there is a shield protecting it.
- (6) The main valve can be installed horizontally or vertically, but horizontal installation is better.
- (7) Connect Modulating Float Control to main valve using 15mm diameter minimum copper tubing.
- (8) The height must be enough between limited liquid level and overfall, it takes some time from closing float ball valve to closing main valve, as to \leq DN100 valves, it only takes less time, as to \geq DN100 valves, maybe it takes over 10s.
- (9) Valve should be checked regularly, ensuring the debris in filter being cleaned.
- (10) Optional Heavy Duty Mechanical Float Valves.



Every care has been taken in the preparation of these instructions, which have been issued as a guide only. Compliance with the requirements of local Authorities is required at all times. These requirements may change from time to time. Always be aware of the local requirements. Subject to any statutory obligations and manufacturers warranties no liability can be accepted for any losses, consequential or otherwise which may arise or be said to have arisen from relying upon the contents of this information as to the fitness of any particular product for any particular purpose, use or application. Watts Australia Pty Ltd reserves the right to modify designs and specifications and to withdraw and introduce products at any time without notice.