

**COLD WATER
STORAGE CONTROL**



Keraflo
OUR WORLD IS WATER

TANKTRONIC®

SERVO CERAMIC VALVE (SCV)



A COMPACT PRECISION-ENGINEERED VALVE, FOR UNIQUE MOTORISED FILLING OF COLD WATER STORAGE TANKS

The Tanktronic® Servo Ceramic Valve from Keraflo offers an array of features and benefits which bring greater control to the market-leading Tanktronic® electronic tank management system:

- **Controlled tank filling through a high torque electric motor**
- **Durable and robust due to ceramic disc sealing parts**
- **Anti-hammer servo control speed for accuracy and precision (no incidence of hydraulic shock)**
- **Manual override “close/open” control handle (for commissioning with no power)**
- **For pipe connections ranging from $\frac{3}{4}$ “(20mm) to 2” (50mm)**
- **Compact valve assembly which is easy to install inside the cold water storage tank**
- **Efficiently matches tank capacity to demand**
- **Self-cleaning maintenance routine**
- **Diagnostic functions include a data log of usage and cleaning cycles**
- **Quiet operation and low power consumption**
- **LED valve status indicators**
- **Waterproof and corrosion resistant design**
- **WRAS approved and fully compliant with Water Regulations**



The electrical cable connecting the filling valve to the SCV Connection Box is 3m in length.

TANKTRONIC SERVO CERAMIC VALVE (SCV)

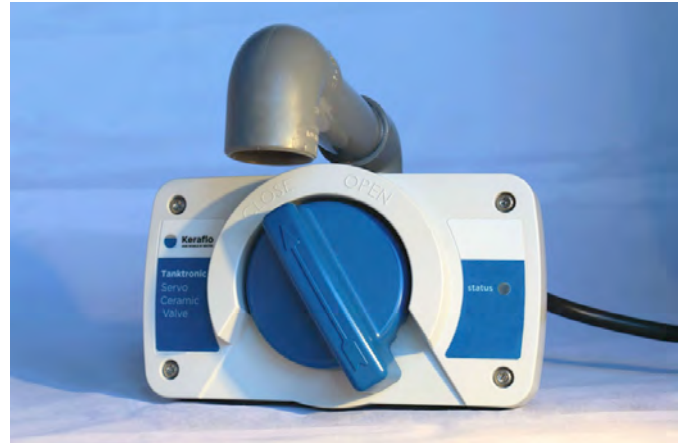
How it works

The Tanktronic® electronic tank management system features a Control Unit which constantly monitors and displays storage tank water level and temperature. This data is collected by the sensor, which is mounted through the lid of the tank. The Tanktronic® Servo Ceramic Valve (SCV) is connected to the Control Unit and specifically controls filling of the cold water storage tank. Tank filling levels are set during installation, via the Tanktronic Control Unit's user-friendly interface. Filling level parameters assigned will be based on the size of the tank and water consumption needs.

When water reaches the user-defined fill level, a signal is sent from the Control Unit to the motor-driven SCV to open or close accordingly. The system issues a two-stage alarm when water level or temperature reaches pre-set high or low warning levels. The primary alarm is an initial warning, but the secondary alarm is both a warning and launch of an override action.

This system is ideal for pumped systems because of the adjustable delayed action and the smooth open

to closed valve operation avoids pump hunting and water hammer. The selected water level is unaffected by pressure fluctuation and the ceramic disc sealing mechanism means that there is no seal or washer wear and tear, which can be encountered with alternative types of filling valve.



Choosing the right-sized valve for your application

The Tanktronic® Servo Ceramic Valve (SCV) is optimised for Tanktronic system applications and provides efficient motorised tank filling. Five models are available, catering for pipe sizes ranging from for ¾" to 2".

Where greater flow rates are required, a Tanktronic Control Valve can be specified:

FLOW RATE FOR NOMINAL VALVE AT STATED PRESSURE

Valve Type Size (inches)	Tanktronic Servo Ceramic Valve (SCV)					Tanktronic Control Valve				
	¾"	1"	1¼"	1½"	2"	2"	2½"	3"	4"	6"
Size (mm)	20mm	25mm	32mm	40mm	50mm	50mm	65mm	80mm	100mm	150mm
Valve model	SCV20	SCV25	SCV32	SCV40	SCV50	TT/15	TT/16	TT/17	TT/18	TT/19
BAR	l/s	l/s	l/s	l/s	l/s	l/s	l/s	l/s	l/s	l/s
0.1	0.13	0.25	0.38	0.9	0.95	2.8	3.8	5.1	10.5	18.4
0.25	0.2	0.4	0.61	1.43	1.5	4.4	6.0	8.1	16.5	29.0
0.5	0.28	0.56	0.86	2.02	2.12	6.3	8.4	11.4	23.4	41.1
1	0.4	0.79	1.22	2.85	3.0	8.9	11.9	16.1	33.1	58.1
2	0.56	1.12	1.72	4.03	4.25	12.6	16.9	22.8	46.7	82.1
3	0.69	1.38	2.11	4.94	5.2	15.4	20.7	27.9	57.3	100.6
Kv m ³ /hr	143	2.86	4.38	10.27	10.81	32	43	58	119	209

Tanktronic Control Valve

The Tanktronic Control Valve works with Tanktronic to provide tank filling. The valve is supplied with a flanged fitting suitable for pipe sizes ranging from 2" to 6".



TANKTRONIC SERVO CERAMIC VALVE (SCV)

Technical Specification

Tanktronic Servo Ceramic Valve (SCV) cold water storage control filling valve with DZR brass body. The valve features a non-wearing maintenance-free ceramic disc seal for water pressures up to 10 Bar maximum static pressure. Minimum operating pressure 0.05 Bar. Suitable for standard water cisterns with or without a raised chamber.

Product Codes

Valve Type	Valve Model
¾" (20mm) valve fitting with plastic outlet pipe	SCV20
1" (25mm) valve fitting with plastic outlet pipe	SCV25
1 ¼" (32mm) valve fitting with plastic outlet pipe	SCV32
1 ½" (40mm) valve fitting with copper outlet pipe	SCV40
2" (50mm) valve fitting with copper outlet pipe	SCV50

Box Contents

- Tanktronic Servo Ceramic Valve (SCV) assembly (fitted with 3m cable and rubber tank bung)
- SCV Connection Box (to electrically connect to the Tanktronic Control Unit)
- SCV Connection Box fixings
- Tanktronic Installation Guide

Not supplied: 2 core 2.5mm² wiring (15m max length) to connect SCV Connection Box to the Tanktronic Control Unit.

Warranty

Tanktronic Servo Ceramic Valve (SCV) comes with a one year warranty which can be extended to three years at no extra cost.



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