Sedal
DIGITAL SYSTEMS

Technical Data Sheet

T2 Shower Class II

Electronic water valve

Versions

AC	27EV011001	Interface & 2 Outlet
	27EV011002	Interface & 3 Outlet
	27EV011003	Interface & 4 Outlet

Technical Specifications

General	
Technology	Patent pending
Maximum load	≤ 40 W
Rated impulse voltage	12 VDC
Hydraulic connections	G1/2*(1)
Weight	1,5 kg

Temperature	Min	Max
Recommended input hot water range	48 °C	65 °C
Recommended input cold water range	5 °C	28 °C
Max. inlet temperature		65 °C *(2)
Min. inlet temperature		> 0°C
Mixed range		Full cold - 44°C*(3)

Pressure	
Max. dynamic	6 bar (0,4 Mpa)
Min. dynamic	1 bar (0,2 Mpa)
Recommended dynamic	3 bar (0,3 Mpa)
Max. Different supply	1,5 bar (0,15 Mpa)
Burst	> 35 bar (3,5 Mpa)

Flow rate *(4)	Min	Max
Mixed water	4 l/min	31 l/min
Full cold- Full hot water	2 l/min	15,5 l/min

*(1): Adaptable to other types of connections
*(2): Up to 80°C, less than 20 minutes
*(3): Configurable up to Full Hot on OEM demand
*(4): Refer to table Min & Max Pressure vs RhA

Description

T2 electronic water valve is a thermostatic mixer “Class II” valve which connected to an interface, controls the water temperature and flow rate for showers in a digital way.

It has several options like Wi-Fi / Bluetooth, BMS (building Management Systems) connectivity with outlets control & special functions.

Can work from 2 to 4 outlets with 2 outlets simultaneous with internal diverter.

Features

Thermostatic control
Flow static control
Volume control
Automatic start-up
Pause / use
Safety measurements
Eco flow
3 users memory
Automatic shut-off
Up to 2 outlets at the same time

Special functions
- Warm-up shower
- Child Shower
- User configurable programs
- Intelligent Bath fill mode
- Connectivity & voice assistance
- Max / min water temperature and flow set-up

Maintenance functions
- Thermal disinfection
- Impurity cleaning process

Consumption parameters - Reading and control
- Hot and cold temperature (inlets) & mixed (outlet)
- Hot and cold flow rate (inlets) & mixed (outlet)
- Water volume (cold, hot, mixed)
- Time of use
- Number of users

Maintenance alarms and error diagnosis
- Cold and hot water leakage
- Cold and hot water failure
- Hot water temperature low
- Cold water temperature high
- Leakage detection
- Maintenance function error

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Certifications

Electric Standards

EMC	EN 55014-1, EN 55014-2
SAFETY:	EN 60335-1
RoHS:	IEC 63000

Hydraulic Standards

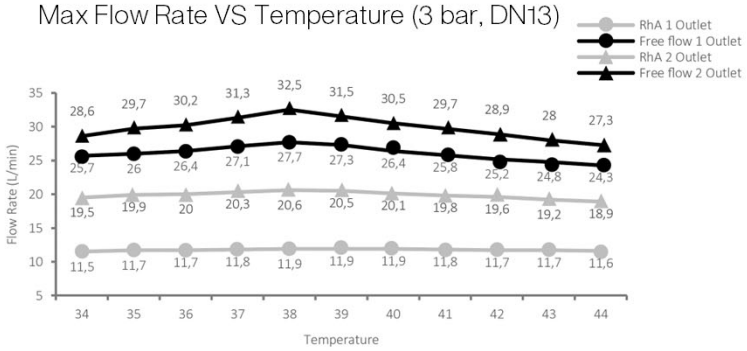
ϘB2806-2017
EN-817
EN-1111
ASME #112.18.1
ASSE #1016-T

Sanitary Standards (Ready for…)

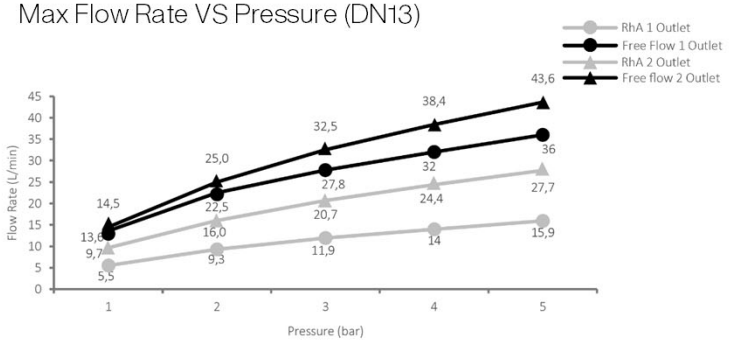
ACS
KTW/W270
WRAS
NSF61

Flow Rate Detail

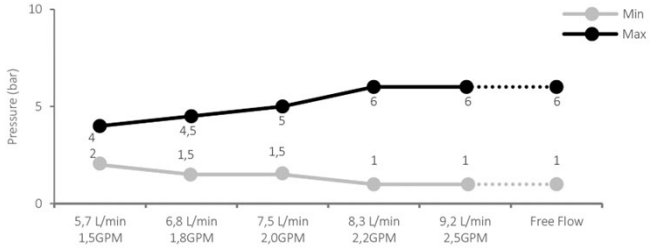
Max Flow Rate VS Temperature (3 bar, DN13)



Max Flow Rate VS Pressure (DN13)



Max Flow Rate VS Pressure (DN13)

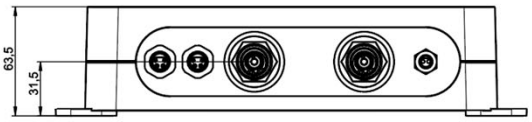


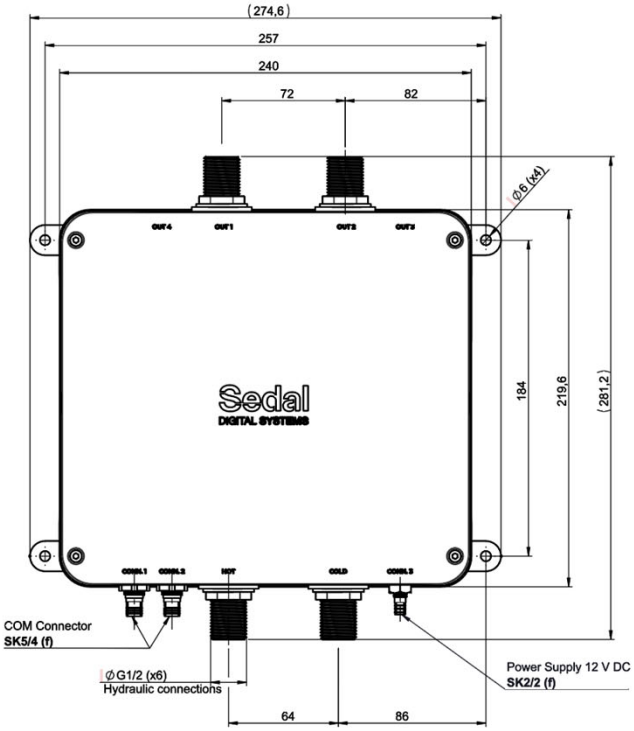
Installation Requirements & Connectivity

- Use pressure regulators for high pressure (>4 bar / 58 Psi) or significant pressure variations. Adjust to the recommended 3 bar (43 Psi).
- This device is for fixtures marked “for use with automatic compensating valves rated at 6 l/min (1.6 gpm) or higher.”
- For a better shower experience, use showerheads rated at 9.2 l/min (2.5 gpm) or higher.
- The system’s minimum flow rate is 4 l/min (1.05 gpm) after meeting installation requirements.
- The optimal control range may vary based on the temperature difference between hot and cold inlets.

Connectivity → RS485 Modbus RTU standard with open memory map registers to control the device.

Technical Dimensions





More information: **www.sedal.com**