

SPINE-DN40 WATER METER

Spine-DN40 water meter is a remote-read water meter based on ultrasonic technology, which measures water consumption continuously and automatically transmits the readings to the Spine service via a built-in NB-IoT connection.



- Connection G2", length 300mm
- Continuous flow (Q3) 16 m³/h, maximum flow 25 m³/h
- Leak, pipe-burst, freeze and tamper alarms sent directly to the Spine service
- Automatic water shut-off with a Spine control unit and motorized shut-off valve
- MID-approved, nominal battery life of up to 13 years

SKU: 501350002

TECHNICAL ATTRIBUTES

Liitäntä	G2"	Tarkkuusluokka	R400
Length	300mm	Lämpötilaluokka	T30
Pysyvä virtaus (Q3)	16 m ³ /h	Vuotohälytys 0,25% Q3	40 l/h
Maksimivirtaus (Qmax)	25 m ³ /h	Putkirikkohälytys 20% Q3	3200 l/h
Käynnistysvirtaus	0,01 m ³ /h	Q4 / ylivirtaus	20 000 l/h

ADDITIONAL PRODUCT DESCRIPTION

Remote-read ultrasonic water meter for precise consumption monitoring

Spine-DN40 water meter is a remote-read water meter based on ultrasonic technology, which measures water consumption continuously and automatically transmits the readings to the Spine service via a built-in NB-IoT connection. No separate communication device is needed, which simplifies installation and reduces system complexity. The meter's continuous rated flow is **16 m³/h** and its overload flow is **25 m³/h**.

The DN40 model is particularly suited to construction sites, industrial facilities, properties and other sites where water consumption needs to be monitored remotely and any leaks or other deviations need to be responded to quickly.

Automatic water shut-off increases site safety

By combining the Spine-DN40 water meter, a separate Spine control unit and a motorized shut-off valve, the site's water supply can be shut off automatically — for example after the working day ends, at night, on weekends, or during longer site shutdowns. The valve can be controlled on a schedule, so the water supply is cut off when no one is on site.

Automatic water shut-off helps reduce the risk of water damage, especially outside working hours. The combination of meter and valve can also be used to detect leaks or water loss: if consumption shows a deviation after the valve is reopened, water may have been lost from the pipework while it was shut.

Accurate and reliable ultrasonic technology

The Spine-DN40 water meter uses ultrasonic technology and has no moving parts. The meter's accuracy class is R400, and its continuous rated flow (Q3) is 16 m³/h. The meter can be installed horizontally, vertically or at an angle, and ultrasonic measurement doesn't require straight pipe sections before or after the meter.

Hour-by-hour consumption tracking in the Spine service

The meter monitors water consumption continuously. Normal measurement data is sent to the Spine service once a day, and the transmission includes an hour-by-hour consumption history. Water consumption can therefore be reviewed at hourly resolution, as well as by day, week, month and project.

Once the price of water is set up in Spine, the estimated water cost can also be shown alongside consumption. The service can also track things like water temperature, battery and network connection status, and meter alarms.

Critical alarms reach Spine quickly

Leak, pipe-burst, freeze and tamper alarms are sent to Spine as separate alarm messages as soon as the meter's alarm condition is met. Other monitored conditions include backflow, empty pipe, low battery and overflow, whose data is included with the normal measurement message.

On the DN40 model, the factory setting for the leak alarm corresponds to a flow of 40 l/h, when the flow continues uninterrupted for 24 hours. A pipe-burst alarm is triggered when the flow exceeds 3200 l/h continuously for 60 minutes. A freeze alarm is triggered when the water temperature stays below +2 °C for five minutes.



Key features

- Ultrasonic technology with no moving parts
- Accuracy class R400
- Continuous water consumption measurement
- Hour-by-hour consumption history in the Spine service
- NB-IoT data transmission with no separate communication device
- Leak, pipe-burst, freeze and tamper alarms as separate alarm messages
- Automatic water shut-off with a Spine control unit and motorized shut-off valve
- Scheduling of the water supply, for example nights and weekends
- Tracking of water consumption and estimated costs
- Horizontal, vertical and angled installation
- Does not require straight pipe sections
- Nominal battery life of up to 13 years, depending on network conditions and data transmission

- MID-approved water meter

Spine-DN40 water meter - technical data

- Connection: G2"
- Length: 300mm
- Continuous flow (Q3): 16 m³/h
- Maximum flow (Qmax): 25 m³/h
- Accuracy class: R400
- Temperature class: T30
- Leak alarm: 40 l/h
- Pipe-burst alarm: 3200 l/h

Does Spine-DN40 water meter suit your site? **Add the product to the quote cart** at the top of the page to get a quote.

Frequently asked questions

Is the Spine-DN40 water meter MID-approved?

Yes. The meter meets the requirements of the [EU Measuring Instruments Directive \(MID 2014/32/EU\)](#), so the measurement can be used as the basis for billing.

Does the meter need a separate communication device?

No. The meter has a built-in NB-IoT connection that sends measurement data directly to the Spine service without a separate transmitter.

Can the Spine-DN40 water meter shut off the water automatically?

Yes, when the meter is combined with a Spine control unit and a motorized shut-off valve. The water supply can then be cut off on a schedule, for example at night and on weekends.

How quickly does a leak alarm arrive?

A leak alarm is triggered when the flow exceeds the meter's alarm threshold (40 l/h) continuously for 24 hours, and the alarm is sent to the Spine service as soon as the condition is met.

What is the product's part number?

The part number is **501350002**. You can use it for orders and quote requests.

Didn't find the answer to your question? **Add the product to the quote cart** and our sales team will help — or open the chat in the bottom-right corner of the page.

Request a quote for Spine-DN40 water meter

Need a different connection size? See also [the DN25 model](#) and [the DN32 model](#), or explore other solutions among our [Spine products](#).

Once you've found the right model, **add it to the quote cart**. You can collect several products in the cart and send the whole list in one request.