

## S 100

### Single-jet Water Meter

Unobtrusively upmarket –  
just what it should be



> Domestic Water Meter

- ✗ Type EV, optionally with pulse output  
Type EV-A prepared for remote acquisition.
- ✗ Nominal flow rate  $Q_n$  1.5 ... 2.5.
- ✗ Dry-dial meter presents reader-friendly register.
- ✗ Strong brass plate allows pressure rating PN 16.
- ✗ Ingenious snap closure prevents unauthorized interference.
- ✗ Lateral contactor cable permits flush mounting.
- ✗ Cold water up to 30 °C, warm water up to 90 °C.

## S 100

### Single-jet Water Meter

Decorative and functional with an attractive transparent hood

#### Compact

- Slimline construction.
- Short overall length.
- Light weight.

#### Versatile

- Rotatable register.
- Quick exchange.
- Space-saving storage.
- Small transportation weight.

#### Appealing

- Individually printed dial identifies each meter unmistakably.

#### Accurate

- Conforms to ISO 4064 for cold water, ISO DIS 10385 for warm water.



Flush-mounted meter:  
only the dial remains visible



Tap meter /  
wash-stand meter

#### Invisible

Yes, frequently. But rather unjustly: our water meter is decorative as well as functional. So it's all the more regrettable that architects and clients prefer it to be inconspicuously concealed.

#### Indefatigable

Our water meter has been doing its job since 1978. Not only under relatively comfortable conditions in Europe, but really tough environments overseas as well. It is continually being improved to incorporate the latest design enhancements. Feedback from our customers is invaluable for this purpose, so please keep the suggestions coming!

### Incorruptible

Our water meter comes with an optimized snap closure. This doesn't only look good, it also makes sure the readings can't be tampered with. No chance of unauthorized interference. For the same purpose, we've included a housing rib with an integrated hole, for inserting a seal wire between the housing and the union. An effective safe-guard against stealthy removal or turning of the meter.

### Inexpensive

Our water meter epitomizes "affordable excellence".

### Installation

May be installed in almost any position: horizontal, vertical or inclined – but the installation upside down is not permitted!



### Remote acquisition if desired

For one thing, our apartment water meters can be read out in situ. For another, they are perfectly prepared for retrofitting with remote acquisition modules.

To achieve this, we have revised our successful EV series: type EV-A. Of course, we did this without changing their fundamental conception. Among other things this means: the metrological classes continue to be valid.

Retrofitting is done quickly and easily by pegging the module onto the register – and without breaking the verification sealing. Solely the blind cover needs changing and the sealer-ring needs replacing.

### EV

- Dry-dial water meter with rotatable register head.
- Optimised low-cost version.
- Ideally suited, through any-position capability, for difficult installations.
- Convincing modifications and accessories offer many options for installation.

### EV with pulse-output


- Permanent transmission of counting pulses.
- Mechanical register with Reed contactor.
- Reed contactor is verifiable.
- For remote indication of water consumption.
- For control of pumps.
- For connecting to pulse counting modules.
- Standard: 100l per 1 pulse.
- Optional: 1, 10 or 1,000l per 1 pulse.


### EV-A prepared for remote acquisition

- Greatest flexibility in consumption-dependent meter reading.
- Entering apartments for meter reading is not necessary.
- Easy retrofitting through pegging-on of remote-acquisition modules without breaking of verification sealing
- Data transmission from meter to remote-acquisition module by means of integral high-resolution Reed contactor emitting 2 pulses per 1 litre.
- Addition of remote-acquisition modules (radio, M Bus, and others) possible at any time

### Single-jet EV

#### Dry-dial

- ❑ Cold water up to 30 °C. 
- ❑ May be installed in any position. Approval B/H: Class B, horizontal, length 80, 110, 130 mm. Approval A/V: Class A, vertical, length 80, 110, 130 mm.



- ❑ Warm water up to 90 °C. 
- ❑ May be installed in any position. Approval A/H: Class A, horizontal, length 80 mm. Approval B/H: Class B, horizontal, length 110, 130 mm.

#### Cold and Warm water

- ❑ May be installed in any position. Approval A/V: Class A, vertical, length 80, 110, 130 mm.
- ❑ Display capacity Standard 9999.999 m³. Option 99999.999 m³.
- ❑ Minimum scale value 0.05 l.

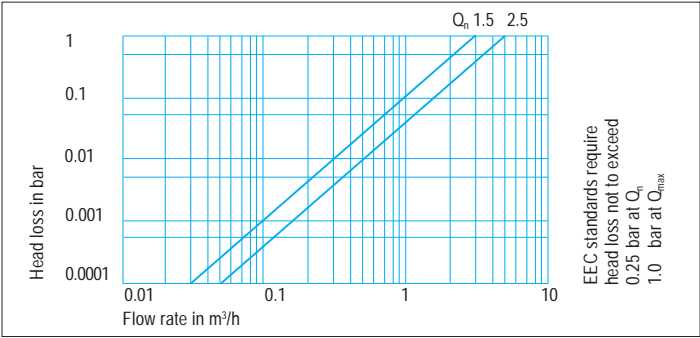
### Single-jet EV-A

#### Dry-dial

- ❑ Cold water up to 30 °C. 
- ❑ Warm water up to 90 °C. 
- ❑ May be installed in any position. Approval A/H: Class A, horizontal. Approval A/V: Class A, vertical.
- ❑ Display capacity Rollenzahlwerk 9999.999 m³.
- ❑ Minimum scale value 0.05 l.

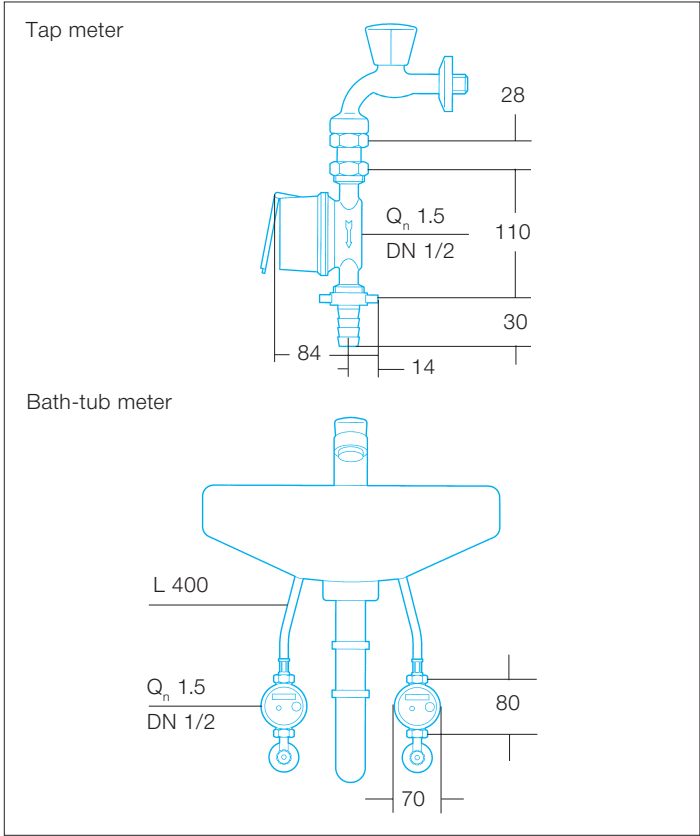
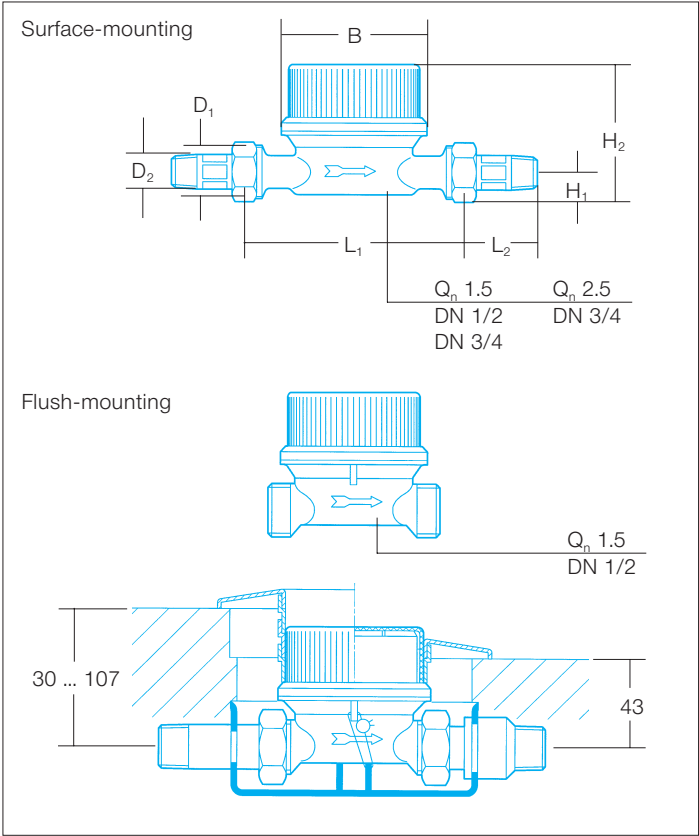


The technical data



<b>Single-jet meter</b>		<b>EV/EV-A</b>							
Meter size / nominal flow rate	Q <sub>n</sub>	m <sup>3</sup> /h	1.5	1.5	1.5	1.5	1.5	2.5	
Nominal size	DN	mm	15	15	15	15	20	20	
	DN	inches	*1/2	1/2	1/2	1/2	3/4	3/4	
D <sub>1</sub>	Meter connection thread	ISO 228/1	inches	G 3/4 B	G 3/4 B	G 3/4 B	G 1 B	G 1 B	G 1 B
D <sub>2</sub>	Connection pipe thread	ISO 7/1	inches	R 1/2	R 1/2	R 1/2	* R 3/4	R 3/4	R 3/4
L <sub>1</sub>	Meter length		mm	80	110	130	110	130	130
L <sub>2</sub>	Connector length		mm	40	40	40	50	50	50
B	Width		mm	70	70	70	70	70	70
H <sub>1</sub>	Centerline height		mm	17	17	17	17	21	21
H <sub>2</sub>	Overall height		mm	73	69	69	69	72	72
	Encapsulated register	with transparent cover	mm	84	80	80	80	83	83
	Canned register	with hood and lid	mm						
Weight		kg	0.40	0.45	0.53	0.55	0.55	0.55	
<b>Class B</b>		horizontal intallation	T <sub>max</sub>	30	30	30	30	30	30
			T <sub>max</sub>	—	90	90	90	90	90
Maximum flow rate	Q <sub>max</sub>	m <sup>3</sup> /h	3	3	3	3	3	5	
Transitional flow rate	Q <sub>t</sub>	l/h	120	120	120	120	120	200	
Minimum flow rate	Q <sub>min</sub>	l/h	30	30	30	30	30	50	
<b>Class A</b>		horizontal / riser installation	T <sub>max</sub>	30	30	30	30	30	30
			T <sub>max</sub>	90	90	90	90	90	90
Maximum flow rate	Q <sub>max</sub>	m <sup>3</sup> /h	3	3	3	3	3	5	
Transitional flow rate	Q <sub>t</sub>	l/h	150	150	150	150	150	250	
Minimum flow rate	Q <sub>min</sub>	l/h	60	60	60	60	60	100	
Continuous load		l/h	1 500	1 500	1 500	1 500	1 500	2 500	
Pressure rating		PN	16	16	16	16	16	16	
Flow capacity	at 1 bar pressure loss	m <sup>3</sup> /h	3.11	3.08	3.05	3.05	3.08	5.1	

\* Adapters premounted



# The meter family with the order numbers

## Domestic water meter EV



Encapsulated register with transparent hood.

Pulse type register, 1.5 m fixed cable, 100 litres/1 pulse – options on request.

Housing brass, galvanically protected as per regulation on potable water and DIN 50 930, part 6.

Class A certification.

Class B certification for encapsulated register on request.

Flow rate $Q_n$ m <sup>3</sup> /h	Nominal size DN inches	Meter length mm	Order No. Encapsulated register		Order No. Puls-type register	
			$T_{max}$ 30 °C	$T_{max}$ 90 °C	$T_{max}$ 30 °C	$T_{max}$ 90 °C
1.5	1/2	80	*1141453	*1161527	1164488	1164607
1.5	1/2	110	1141496	1161535	1164615	1164623
1.5	1/2	130	1141518	1161543	1164631	1164658
1.5	**3/4	110	0616737	0616745	0617962	0617970
1.5	3/4	130	1141526	1161551	1164666	1164674
2.5	3/4	130	1141534	1161578	1164704	1164712

\*Flush-mounted meter / Tap meter \*\*Adapters premounted

## Domestic water meter EV-A



Flow rate $Q_n$ m <sup>3</sup> /h	Nominal size DN inches	Meter length mm	Order No. Encapsulated register	
			$T_{max}$ 30 °C	$T_{max}$ 90 °C
1.5	1/2	80	0708917	0708968
1.5	1/2	110	0709042	0709085
1.5	1/2	130	0709093	0709123
1.5	**3/4	110	0709182	0709190
1.5	3/4	130	0709131	0709174
2.5	3/4	130	0709328	0709360

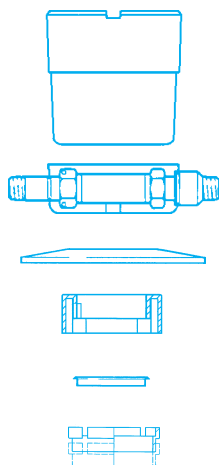
\*\* Adapters premounted

## Options



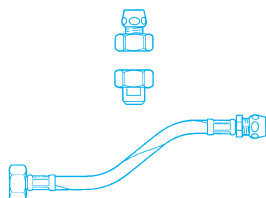
Encapsulated register with transparent hood and sealing	<b>EVZ-DL</b>	on request
Encapsulated register with hood, lid and sealing	<b>EVZ-DD</b>	on request
Canned register with hood, lid and sealing	<b>EVZ-DBD</b>	on request

## Flush-mounted installation Accessories



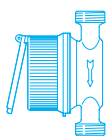
Flush-mounted installation		Dimensions inches / mm	Order No.
Flush-mounted box with connection unions, water meter adapter and flush-mounted cover		1/2 x solder on 15 3/4 x solder on 18 solder on 22	0126451 0126392 0140549
Cover plate for encapsulated register	chrome-plated	137 x 137	0160695
Cover plate for collar	chrome-plated	150 x 150	0165288
Cover for pulse-type register	chrome-plated	150 x 150 H 53	0163131 1189073
Dummy cap	black chrome-plated		0169382 0173253
Spacer ring for encapsulated register	grey	H 13	0160688
Spacer ring for pulse-type register	chrome-plated grey	H 13 H 13	0165034 0210119

## Wash-stand meter Accessories



Wash-stand meter		Dimensions inches / mm	Order No.
Threaded union with seal for 10 mm copper pipe	chrome-plated	R 3/8 x 10 – R 3/4	0127135
Threaded union with seal for corner valve	chrome-plated	R 3/8 with nut 3/4	0127142
Flexible metal hose with seal Length 400 m	chrome-plated	R 3/8 x 10 – R 3/4	0159269

## Tap meter



Encapsulated register with transparent hood, cover and seal lug.  
Canned register with hood, cover and seal lug.  
Housing brass, galvanically protected as per regulation on potable water and DIN 50 930, part 6.  
Class A certification.

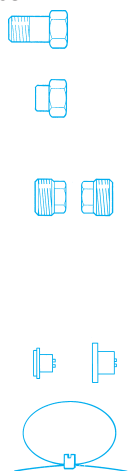
Flow rate $Q_n$ m <sup>3</sup> /h	Nominal size DN inches	Meter length mm	Kapselzählwerk $T_{max}$ 30 °C	Dosenzählwerk $T_{max}$ 30 °C
1,5	1/2	110	EVZK-DD 0674176	EVZK-DBD 1168408

## Tap meter Accessories



Description	Dimensions inches	Brass chrome-plated
Connection, hose threaded union with seal	1/2	0160583

## Surface-mounted meter Flush-mounted meter Accessories



Description	Dimensions inches / mm	Delivery unit pieces	Brass chrome-plated	Brass nickel-plated	Brass unpainted
Threaded union with seal	1/2 3/4	1 1	0501348 0501355	– –	0501184 0501124
Threaded union x solder on with seal	1/2 x 15 1/2 x 18 3/4 x 22	1 1 1	– – –	– – –	0177772 0179519 0179474
Adapter with seal	1/2 - 80 x 3/4 - 105 1/2 - 80 x 3/4 - 110 1/2 - 110 x 3/4 - 130 1/2 - 110 x 1/2 - 165 1/2 - 110 x 3/4 - 110 1/2 - 110 x 3/4 - 130 1/2 - 110 x 3/4 - 190 3/4 - 130 x 1/2 - 165 3/4 - 130 x 3/4 - 190	2 2 2 *1 *1 2 2 2 *1	– – – – – – – – –	0164389 0198387 0162582 – – – – – –	– – – 0625809 0204434 0506937 0508148 0517191 0625817
* 2 pieces required per meter					
Non-return valve for single-jet meters type EV manufactured starting 2002 for all single-jet meters type EV	1/2 3/4	1 1	– –	– –	Plastic 0667978 0668621
Seal set, no pliers needed		1	–	–	Metal 0101422



## ELSTER Messtechnik GmbH

Otto-Hahn-Strasse 25  
D-68623 Lampertheim  
Phone +49 (0) 62 06 / 9 33-0  
Telefax +49 (0) 62 06 / 9 33-100  
messtechnik@de.elster.com  
www.elstermesstechnik.com

L 02.02e / 02.06  
Changes may occur  
without notice

