

Standpipe Meters and Hydrant Flushing Unit STM-E, STM-N, STM-T, STW

The mobile tapping points for
taking water from hydrants



- ✘ Flow rate Q_n 2.5 ... 25.
- ✘ Weatherproof: designed for the tough conditions outdoors.
- ✘ Indestructible: sturdy standpipe made of stainless steel.
- ✘ Portable: connection-friendly "light" standpipe made of aluminium.
- ✘ Steady: no compromises as to accuracy.

Standpipe Meters and Hydrant Flushing Unit

STM-E, STM-N, STM-T, STW

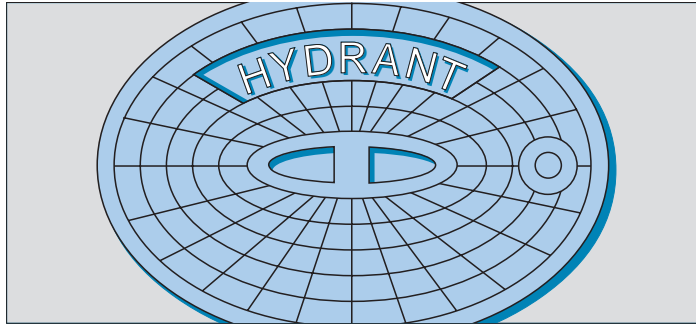
Graduated: four meter types
in five nominal sizes

Water on call

Where underground hydrants are provided, the water mains can be tapped directly. Our standpipe meters are ideally equipped for this task. To ensure they can all be connected without difficulty, the technical details involved have been carefully defined – in Germany, for example, by DIN 14 375.

More or less everywhere, the statutory regulations demand that the water removed (directly from the mains) be metered and invoiced.

For this purpose, we offer three types of meters, graded by flow range. All of them may be calibrated and certified.



Depending on the stresses involved, a choice is offered of stainless steel or aluminium standpipe meters. The latter variant provides no fewer than three advantages: it's not only lightweight and inexpensive, the „soft“ material is also easier on the underground hydrants.

All stainless steel hydrants are fitted with a conical strainer as a standard feature, to protect the meter against damage from coarse particles in the water.

We also recommend installing a non-return valve.

Typical

**STM-E, STM-N,
STM-T and STW**

STM-E features

- ✘ Meter with all the OPTIMA's excellent characteristics. Superlative response sensitivity. Continuous loads of $1.4 \times Q_n$ are no problem.
- ✘ Standpipes and meters plus fittings for water extraction mounted ready for use.

STM-N, STM-T features

- ✘ Meter also an OPTIMA. Can be briefly overloaded by 20 %. Flange for totally secure connection to the standpipe.
- ✘ Standpipes separately available.

STW features

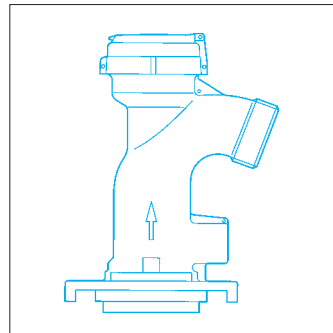
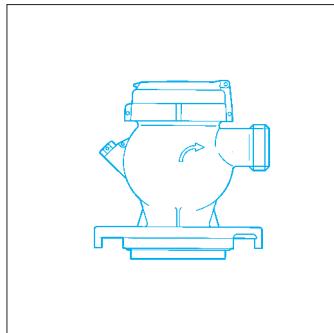
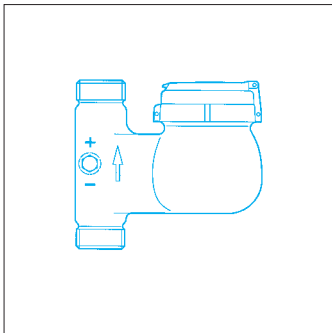
- ✘ Meter almost indestructible. Woltmann metering principle with vertical rotor. Flange connection.
- ✘ Standpipes separately available.

Metering accuracy

- ✘ Comfortably conforms to ISO 4064 for cold water.

Standpipes

- ✘ Choice of materials: aluminium or stainless steel.
- ✘ Connection according to DIN.
- ✘ Other connections on request.



Lower flow range:

STM-E
Multi-jet water meter
OPTIMA MNR-S
wet-dial

- ❑ Cold water up to 50 °C.
- | | |
|------------------|------------------|
| Q_n 2.5 | Q_n 6 |
| \varnothing 82 | \varnothing 98 |
| 6.131.42 | 6.131.04 |
- ❑ Approval Class C.
- ❑ Display capacity 99 999 m³.
- ❑ Minimum scale value 0.05 l.

Medium flow range:

STM-N, STM-T
Multi-jet water meter
OPTIMA STM-N
wet-dial
STM-T
dry-dial

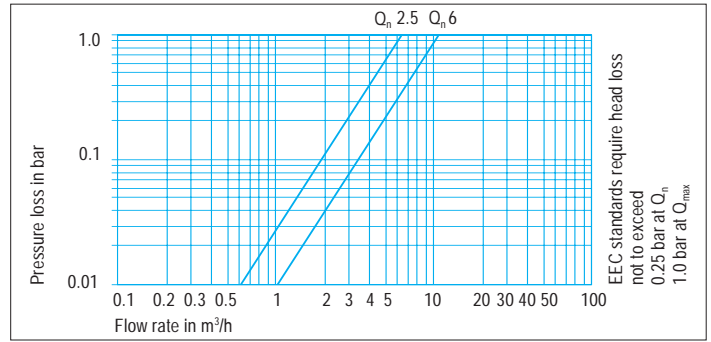
- ❑ Cold water up to 50 °C.
- | |
|----------------------|
| Q_n 6 und Q_n 10 |
| \varnothing 98 |
| 6.131.04 |
- ❑ Approval Class B.
- ❑ Display capacity 99 999 m³.
- ❑ Minimum scale value 0.05 l.

Upper flow range:

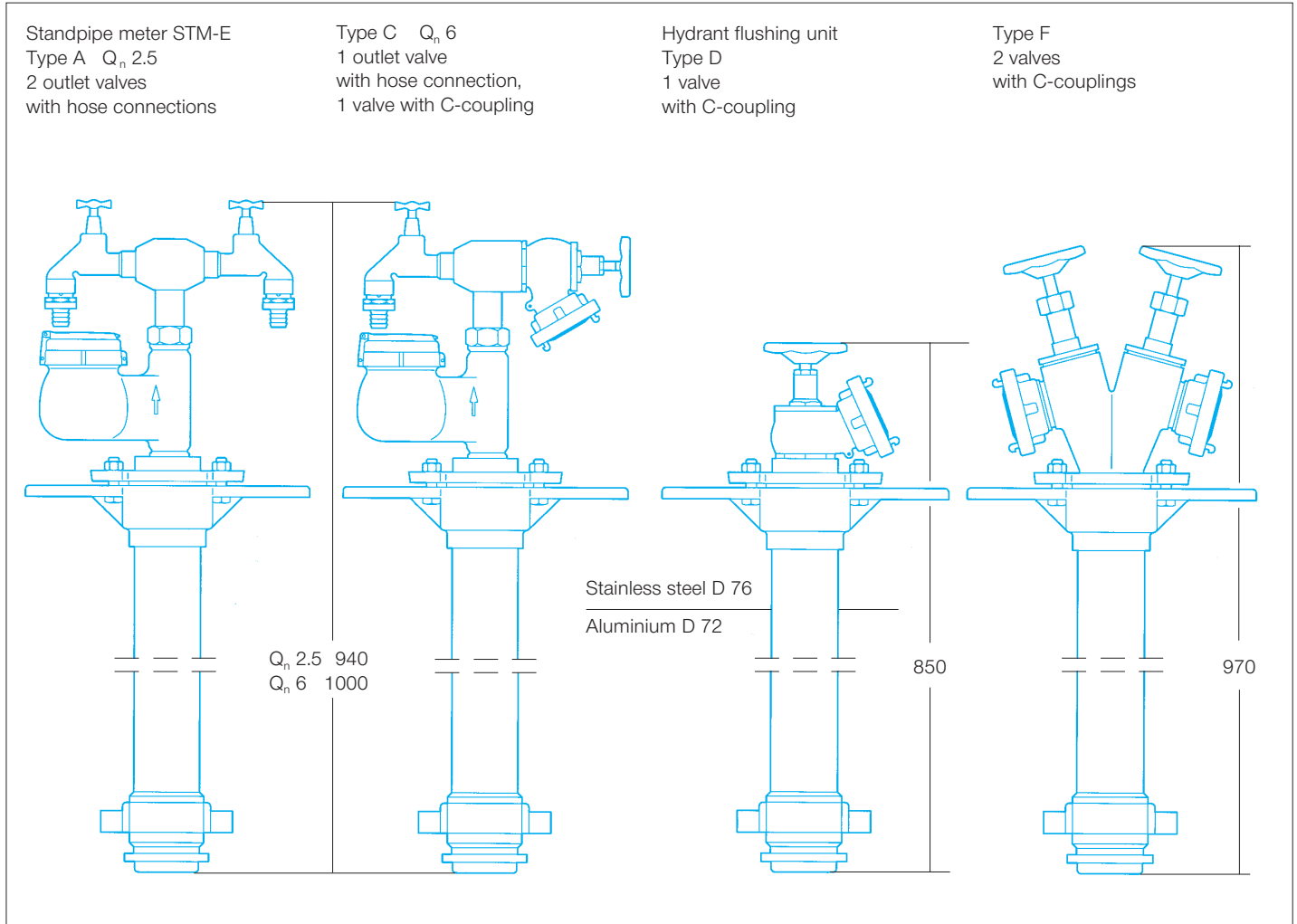
STW
Woltmann meter
STW
dry-dial

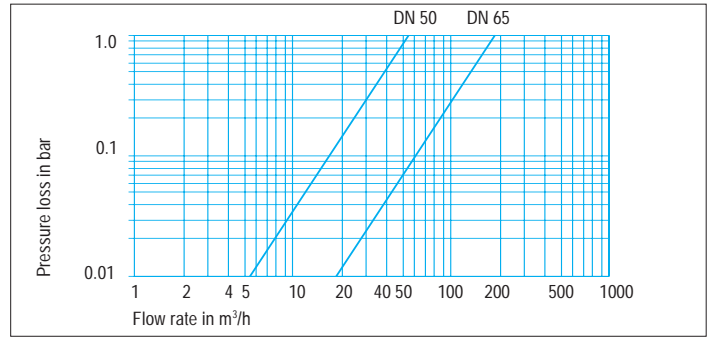
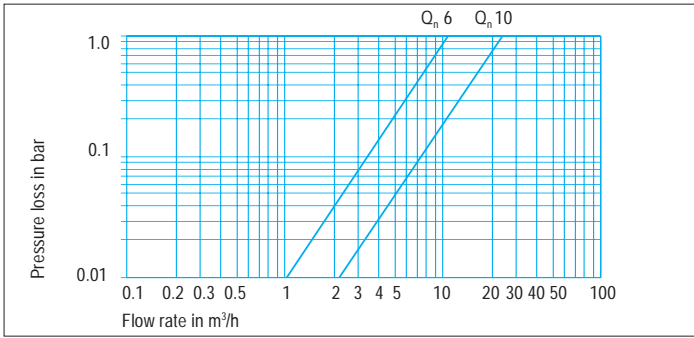
- ❑ Cold water up to 50 °C.
- | |
|-----------------------|
| Q_n 15 und Q_n 25 |
| \varnothing 81 |
| 6.132.05 |
- ❑ Approval Class B.
- ❑ Display capacity 99 999 m³.
- ❑ Minimum scale value 0.05 l.

The technical data



Standpipe meter			STM-E					
Hydrant flushing unit			Type A	C	D	F		
Meter size / nominal flow rate	Q_n	Type m ³ /h	2.5	6	—	—		
Nominal size	DN	mm	20	25	—	—		
	DN	inches	3/4	1	—	—		
Meter connection thread	ISO 228/1	inches	G 1 B	G 1 1/4 B	—	—		
Maximum flow rate	Q_{max}	m ³ /h	7	12	—	—		
Transitional flow rate	Q_t	l/h	120	280	—	—		
Minimum flow rate	Q_{min}	l/h	20	40	—	—		
Continuous load		m ³ /h	7	12	—	—		
Temperature	T_{max}	°C	50	50	50	50		
Pressure rating		PN	16	16	16	16		
Flow capacity	at 1 bar pressure loss	m ³ /h	> 5	> 12	—	—		
Weight		kg	8.0	11.0	7.0	6.0		
Assembled	Aluminium	kg	14.5	16.5	12.5	—		
	Stainless steel	kg						





Standpipe meter			STM-N, STM-T		STW	
Meter size / nominal flow rate	Q_n	m ³ /h	6	10	15	25
Nominal size	DN	mm	25	40	50	65
	DN	inches	1	1 1/2	2	2 1/2
Meter connection thread	ISO 228/1	inches	G 1 1/4 B	G 2 B	G 2 B	G 2 1/2 B
Maximum flow rate	Q_{max}	m ³ /h	12	20	30	75
Transitional flow rate	Q_t	l/h	480	800	3 000	6 000
Minimum flow rate	Q_{min}	l/h	40	60	400	500
Continuous load		m ³ /h	12	20	15	50
Temperature	T_{max}	°C	50	50	50	50
Pressure rating		PN	16	16	16	16
Flow capacity	at 0.1 bar pressure loss	m ³ /h	—	—	18	54
	at 1 bar pressure loss	m ³ /h	12	20	—	—
Weight		kg				
Standpipe meter		kg	3.5	5.5	4	5
Standpipe according to DIN 14375	Aluminium	kg	4.0	4.0	4.0	4.0
	Stainless steel	kg	10.0	10.0	10.0	10.0

Standpipe meter STM-N, STM-T

Accessory mounting example:

- Fixed coupling with female thread.

Also available:

- Cutoff valve.
- Fixed coupling with male thread.
- Adapters for Q_n 6/DN 25.

Standpipe meter STW

Accessory mounting example:

- Cutoff valve.
- Fixed coupling with male thread.

Also available:

- Fixed coupling with female thread.

Standard version 690
Short version 400

Standpipe according to DIN 14 375 for underground hydrant according to DIN 3221 and underground field hydrant according to DIN 19 6562.

Other connections on request.

The order numbers

Standpipe meter STM-E

With standpipe, assembled

Multi-jet water meter OPTIMA MNR-S, certified to Class B.

Standpipe meter		STM-E	STM-E	STM-E	STM-E
Type		A	A	C	C
Flow rate	Q _n m ³ /h	2.5	2.5	6	6
Nominal size	DN mm	20	20	25	25
Standpipe	Handle	Aluminium	Stainless steel	Aluminium	Stainless steel
	Pipe	Aluminium	Stainless steel	Aluminium	Stainless steel
	Foot	Aluminium	Stainless steel	Aluminium	Stainless steel
	Clutch	Aluminium	Brass	Aluminium	Brass
Acc. to DIN 14375	Order No.	1168424	0652962	1168440	0652970

Hydrant flushing unit

With standpipe, assembled,
without meter

Type		D	D	F	F
Standpipe	Valve	Brass	Brass	Aluminium	Aluminium
	Handle	Aluminium	Stainless steel	Aluminium	Stainless steel
	Pipe	Aluminium	Stainless steel	Aluminium	Stainless steel
	Foot	Aluminium	Stainless steel	Aluminium	Stainless steel
	Clutch	Aluminium	Brass	Aluminium	Brass
Acc. to DIN 14375	Order No.	1168459	0652989	1168467	0652997

Standpipe meter STM-N / STM-T / STW

without standpipe

Multi-jet water meter OPTIMA 2002 STM-N and STM-T, certified to Class B.

Woltmann meter STW, certified to Class B.

Standpipe meter		STM-N	STM-N	STM-T	STM-T	STW	STW
Flow rate	Q _n m ³ /h	6	10	6	10	15	25
Nominal size	DN mm	25	40	25	40	50	65
	Order No.	0647853	0647962	0647942	0647969	1104655	1104809

Standpipe

According to DIN 14375

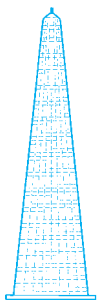
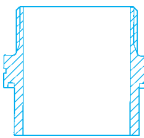
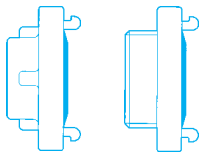
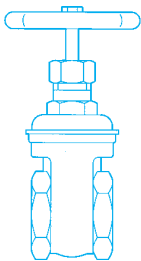
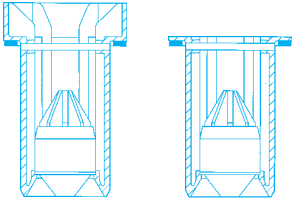
For underground hydrant according to DIN 3221
and underground field hydrant according to DIN 19 652.

Standpipe	Handle	Aluminium	Stainless steel
	Pipe	Aluminium	Stainless steel
	Foot	Aluminium	Stainless steel
	Clutch	Aluminium	Brass
Acc. to DIN 14375	Order No.	0649902	0643920
Short version L 400 mm	Order No.	0652954	0652709

R: on request

The order numbers for accessories

Accessories



Spare part

Description		Dimensions	mm / inches	Order No.
Non-return valve for standpipe according to DIN 14375	Plastic	DN 25, 40, 50	2	0501385
		DN 65	2 1/2	0517236
Cutoff valve	Brass	DN 25	G 1 1/4 I	0517124
		DN 40, 50	G 2 I	0509129
		DN 65	G 2 1/2 I	0524362
Fixed coupling for valve C DIN 86204 C 1 DIN 14317 B 1 DIN 14318	Brass	DN 50	G 2 A	1198331
	Aluminium	DN 50	G 2 A	0508043
	Brass	DN 65	G 2 1/2 A	0601423
Fixed coupling for meters B DIN 86204 B DIN 86205 B STORZ 75 B DIN 14388	Brass	DN 50	G 2 I	0508059
	Brass	DN 65	G 2 1/2 I	0508066
	Aluminium	DN 50	G 2 I	1084964
	Aluminium	DN 65	G 2 1/2 I	1003077
Adapter Cutoff valve DN 25 on fixed coupling C 1 STM-N Q ₆ / DN 25 on fixed coupling C	Brass	G 1 1/4	A - G 2 I	0517206
		G 1 1/4	I - G 2 A	0510941
Adapter Irrigation meter WP-T-D on standpipe	Brass	DN 80	G 3 A	1008184
Conical strainer for standpipe according to DIN 14375 in stainless steel Snap ring (to hold strainer)	Stainless steel		D 64.5	0510027
	Stainless steel			0513601

ELSTER 

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 04.10 e / 05.03
Changes may occur
without notice

