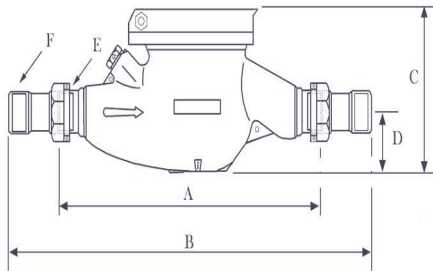


M190 (MTHR)



**Elster Honeywell
Brass
Multi-Jet
Warm Water Meter
BSP Threaded**



The Elster M190 is a multi-jet warm water meter with a dry register. It operates on the velocity principle in which water enters the measuring chamber through a number of ports and drives the inner rotor. This movement is transmitted by a magnetic coupling to the register which displays the total quantity passed.

The register is dust-free, waterproof and vacuum sealed to avoid condensation. Numbered rollers show cubic metres, with pointers indicating litres.

Approvals, Features & Benefits

- MID 2004/22/EC
- EU-type certificate DE-15-MI001-PTB013
- Robust & tamper resistant
- Leak-proof construction
- Supplied with fitted pulse output

Pressure & Temperature

Maximum pressure:-
16 bar

Maximum temperature:-
90°C

Size	15	20	25	30	40		
A	190	190	260	260	300		
B	240	240	320	320	370		
C	115	115	130	130	153		
D	31	31	43	43	46		
E (BSPP)	¾	1	1¼	1½	2		
F (BSPT)	½	¾	1	1¼	1½		
Weight Kg	1.5	1.6	2.5	2.5	3.7		
MID Flow Range*	Q₃/Q₁	R80 (Class B)	R80 (Class B)	R80 (Class B)	R80 (Class B)		
Min Flow Rate	Q₁ ± 5%	l/h	31.25	50	78.75	125	200
Transitional Flow Rate	Q₂ ± 2%	l/h	50	80	126	200	320
Max Permanent Flow Rate	Q₃ ± 2%	m ³ /h	2.5	4	6.3	10	16
Max Overload Flow Rate	Q₄ ± 2%	m ³ /h	3.125	5	7.875	12.5	20
Pulse Output	pulse/litre		1/100	1/100	1/100	1/100	1/100

* When installed horizontally

T162 Factory Fitted Pulse Data		Wiring		
Type	Reed switch potted protection IP68	Brown	Pulse Output	Not Polarity Sensitive
Contact Load	24vDC max 50mA	White	Pulse Output	Not Polarity Sensitive
Resistance	100 Ohm	Green	Tamper Loop	Not Polarity Sensitive
Cable	3m long, Ø3.3mm, 3 x 0.14mm ²	White	Tamper Loop	Not Polarity Sensitive

