

# SJ ONE



## PROTECTED ROLLERS SINGLE JET METER

SJ ONE is the ultimate single-jet meter expression. Thanks to its mechanical transmission, it offers high metrological performance and is insensitive to external magnetic fields. Its "protected rollers" solution, first developed by Maddalena, ensures perfect legibility over time. Compact, and robust is suitable for the most challenging environments. It can be equipped with the latest remote data transmission technologies.



**CHRYSSAFIDIS**

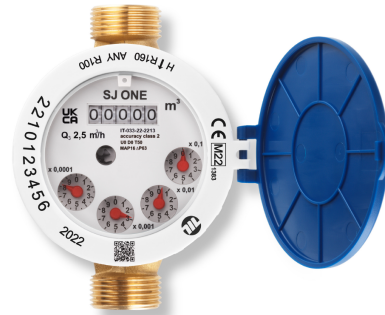


METERING EXPERTISE

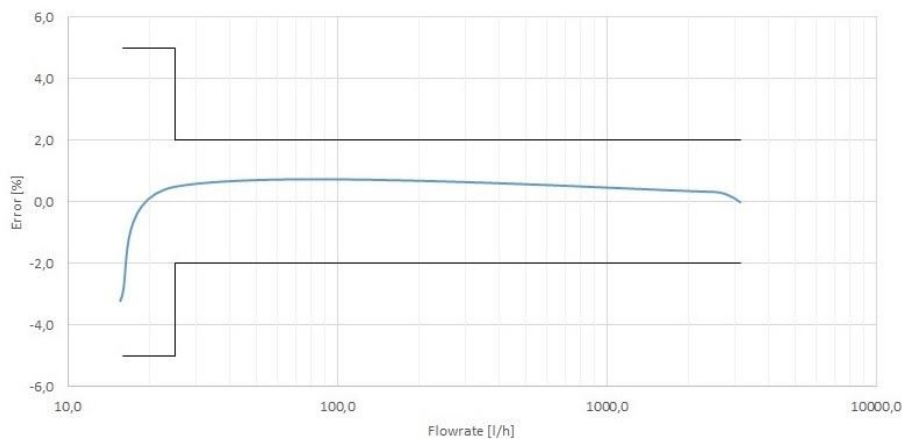
# SJ ONE

## FEATURES

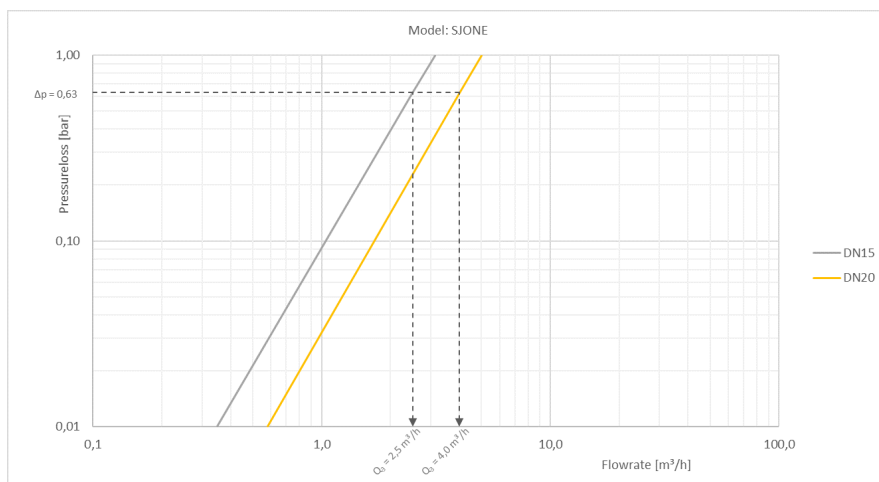
- Protected rollers single jet meter for cold water
- Ideal for utilities and outdoor installations
- MID-certified: HR 315
- DN: 15÷20
- Health certifications available for a number of countries
- Mechanical transmission unaffected by external magnetic fields
- Mineral glass lens
- Supports various installation positions
- Ready for optional reed switch (1P=1-10-100-1000L) or static pulse emitter (1P=1-10L)



## TYPICAL ERROR CURVE



## HEAD LOSS DIAGRAM



## METROLOGICAL PERFORMANCE

|                                    |                   |       |    |
|------------------------------------|-------------------|-------|----|
| Size                               | mm                | 15    | 20 |
|                                    | in                | ½     | ¾  |
| Module B no.                       | IT-033-22-213     |       |    |
| Module D no.                       | 0119-SJ-A010-08   |       |    |
| Q <sub>3</sub> /Q <sub>1</sub> = R | H ≤ 315           |       |    |
| Referred to installation position  | V ≤ 100           |       |    |
| MID standard performance *         |                   |       |    |
| Q <sub>3</sub>                     | m <sup>3</sup> /h | 2,5   | 4  |
| Q <sub>4</sub>                     | m <sup>3</sup> /h | 3,13  | 5  |
| R                                  | 160               |       |    |
| Q <sub>1</sub>                     | l/h               | 15,63 | 25 |
| Q <sub>2</sub>                     | l/h               | 25,01 | 40 |

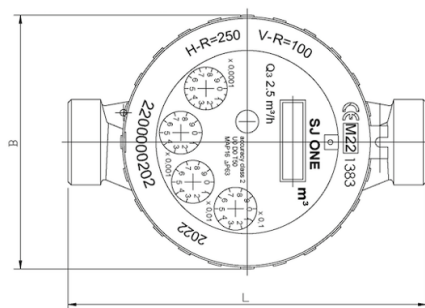
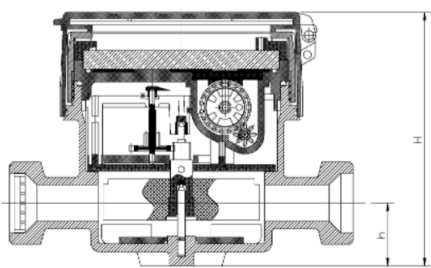
\* Other values of R available upon request.

## TECHNICAL DATA

|                                                                                |                                                                              |        |      |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------|------|
| Maximum permissible error between Q <sub>1</sub> and Q <sub>2</sub> (excluded) | +/- 5%                                                                       |        |      |
| Maximum permissible error between Q <sub>2</sub> (included) and Q <sub>4</sub> | +/- 2% with water temperature ≤ 30°C<br>+/- 3% with water temperature > 30°C |        |      |
| Temperature class                                                              | T50                                                                          |        |      |
| Flow profile sensitivity classes                                               | U0 – D0                                                                      |        |      |
| Starting flow rate                                                             | l/h                                                                          | 4–5    | 7–9  |
| Head loss                                                                      | ΔP63                                                                         |        |      |
| Nominal pressure                                                               | bar                                                                          | 16     |      |
| Maximum reading                                                                | m <sup>3</sup>                                                               | 99.999 |      |
| Minimum reading                                                                | l                                                                            | 0,05   |      |
| Indicative weight                                                              | kg                                                                           | 0,57   | 0,69 |



## DIMENSIONS



CHRYSSAFIDIS

|        |    |             |       |
|--------|----|-------------|-------|
| Size   | mm | 15          | 20    |
|        | in | ½           | ¾     |
| Thread | in | G ¾ B       | G 1 B |
| L      | mm | 110/115/190 | 130   |
| H      | mm | 81          | 81    |
| h      | mm | 20          | 21,5  |
| B      | mm | 77          | 77    |

## COMMUNICATION MODULES



REED SWITCH



QUADRAPIUS

ARROW<sup>EVO</sup> 868  
SPLITARROW<sup>WAN</sup> 169  
SPLITARROW<sup>WAN</sup> 868  
SPLITARROW<sup>WAN</sup> NB-IoT  
SPLIT

For more information on all the accessories available, consult the specific technical data sheets on the website [www.maddalena.it](http://www.maddalena.it)



METERING EXPERTISE