

OIML Member State
The Netherlands

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Project number 3144570
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Issuing authority NMI Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Brodie Meter Company, LLC
19267 US Highway 301N
Statesboro, GA 30461
United States of America

Identification of the certified type **A measurement transducer**
Type: SB25x, B27x, B28x, B29x, B30x, B31x, B32x,
B33x, B34x, B35x, B36x, or B38x^[1]

Characteristics See page 2 and further

This OIML Certificate is issued under scheme A

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 117-1:2007 "Dynamic measuring systems for liquids other than water"
Accuracy class 0.3; 0.5

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

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[1] With x being a code for the pressure rating.

Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
15 September 2022

Certification Board

NMI Certin B.V.
Thijssseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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The conformity was established by the results of tests and examinations provided in the associated reports:

- CPC-809423-1 dated 27 October 2008 that includes 13 pages.
- CPC-9200527-1 dated 22 February 2010 that includes 16 pages
- CPC-10200257-1 dated 19 April 2011 that includes 5 pages
- NMI-1900551-01 dated 28 February 2017 that includes 7 pages
- NMI-2402597-01 dated 14 February 2020 that includes 11 pages
- NMI-3144570-01 dated 15 September 2022, that includes 10 pages

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented. Table 2 gives an overview of the general characteristics of the family of instruments. The construction of the measurement transducer is recorded in documentation folder number TC7295-7.

Table 1 General characteristics

Environmental classes	M2 / E2 / H3
Ambient temperature range	-25 ... +55 °C; condensing humidity
Temperature range liquid	-10 ... +50 °C
Maximum pressure drop	1,37 bar (20 PSI)
Bearings	Stainless steel; ceramic
Intended for the measurement of	Oil and oil products, alcohol, chemical products, and potable liquids

Table 2 General characteristics of the family of instruments

Meter size	SB25x			B27x	B28x
Qmin, class 0.5 [L/min]	30	20 (A) 30 (B)	57	114	166
Qmin, class 0.3 [L/min]	-	57		215	166
Qmax [L/min]	570			2081	3406
MMQ [L]	10			100	200
Diameter in- & outlet [mm]	50 (2")			80 (3")	100 (4")
Cyclic volume ^(C) [L]	0,129			0,937	1,9
K-factor ^(C) [pulses/L]	252			42	25
Maximum pressure [bar(g)]	51 (D)			102 (D)	
Viscosity range [mPa·s]	0,4 ... 0,8	0,8 ... 2	2 ... 5	0,4 ... 1000	

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Notes:

- The B28x meters can be used for different liquids without adjustment. All other types need adjustment when used for a different liquid.
- The SB25x meter is constructed as a single case housing. All other types are constructed as a double case housing.

(A) Serial number up to 1207-XXXXU-X-X

(B) Serial numbers 1208-XXXXU-X-X or higher

(C) Nominal value

(D) Depending on the pressure rating, up to the stated maximum pressure.

Meter size	B29x	B3zx ^(A)	B3yx ^(B)	B3wx ^(C)	B38x
Qmin [m ³ /h]	10	34	79	125	200
Qmax [m ³ /h]	256	750	795	1250	2100
MMQ [L]	200	500	1000	2000	5000
Diameter in- & outlet [mm]	150 (6")	200 (8")	250 (10")	300 (12")	400 (16")
Cyclic volume ^(D) [L]	1,9	8,3	16,58	32,4	68,9
K-factor ^(D) [pulses/L]	25	10,5	7,2304	3,7149	2,157
Maximum pressure [bar(g)]	102 (E)				
Viscosity range [mPa·s]	0,4 ... 1000				

Notes:

- The B29x, B33x, B34x, B35x, and B36x meters can be used for different liquids without adjustment. All other types need adjustment when used for a different liquid.

(A) With z indicating the flange size: 0 = 6", 1 = 8" and 2 = 10"

(B) With y indicating the flange size: 3 = 10" and 4 = 12"

(C) With w indicating the flange size: 5 = 10" and 6 = 12"

(D) Nominal value

(E) Depending on the pressure rating, up to the stated maximum pressure.

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	25 June 2020	-
1	15 September 2022	Addition of 10" and 12" measurement transducers.