



OIML Certificate

OIML Member State The Netherlands



Number R117/2007-A-NL1-20.09 Project number 2492378 Page 1 of 3

Issuing authority NMi Certin B.V.

Person responsible: M. Boudewijns



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 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.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

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

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1

25 June 2020

Certification Board

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

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.







third-party liability.





OIML Certificate



Number R117/2007-A-NL1-20.09 Project number 2492378 Page 2 of 3

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

- CPC-9200527-1 dated 22 February 2010 that includes 45 pages
- CPC-10200257-1 dated 19 April 2011 that includes 11 pages
- NMi-1900551-01 dated 28 February 2017 that includes 14 pages
- NMi-2402597-01 dated 14 February 2020 that includes 11 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 TC7295-6.

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 siz	e	SB25x			B28x
Qmin, accuracy class 0.5 [L/min] 30	20 (B) 30 (C)	57	114	166
Qmin, accuracy class 0.3 [L/min] -	- 57			166
Qmax [L/min]	570			3406
Minimum Measured Quantity [L]	10			200
Diameter in- and outlet [mm]	50 (2")			100 (4")
Cyclic volume ^(D) [L]	0,129			1,9
K-factor ^(D) [pulses / L]	252			25
Maximum pressure [Bar(g)]	51 (E)		102 (E)	
Viscosity range [mPa-s] 0,4 0,8	0,4 0,8		0,4 1000	





OIML Certificate

OIML Member State The Netherlands



Number R117/2007-A-NL1-20.09 Project number 2492378 Page 3 of 3

Meter s	ize	B29x	B3zx ^(A)	B38x		
Qmin, accuracy class 0.5 [m³	/h]	10	34	200	+	
Qmin, accuracy class 0.3 [m³	/h]	10	34	200		
Qmax [m³	/h]	256	750	2100		
Minimum Measured Quantity	[L]	200	500	5000		
Diameter in- and outlet [m	m]	150 (6")	200 (8")	400 (16")		
Cyclic volume ^(D)	[L]	1,9	8,3	68,9		
K-factor ^(D) [pulses /	/ L]	25	10,5	2,157		
Maximum pressure [Bar(g)]		102 (E)			
Viscosity range [mPa	a·s]		0,4 1000			

Notes:

- The B28x and B29x 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) With z indicating the flange size: 0 = 6", 1 = 8" and 2 = 10" flanges
- (B) Serial number up to 1207-XXXXU-X-X
- (C) Serial numbers 1208-XXXXU-X-X or higher
- (D) Nominal value
- (E) Depending on the pressure ranting, up to the stated maximum pressure.







