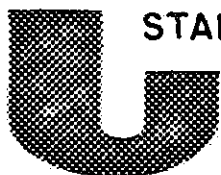




Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

S.W-729

OTTAWA February 4th, 1970.

Approved: NEPTUNE-TYPE RS METERS FOR INDUSTRIAL LIQUIDS

manufactured by: Neptune Meters Limited, Toronto.

Apparatus Listed: Positive displacement type meters of all bronze or other corrosion resistant construction for measuring industrial liquids, model numbers as listed below:

<u>Model</u>	<u>Sizes</u>	<u>Description</u>
RS	$\frac{3}{4}$ " x 1"	Same as $\frac{3}{4}$ " x 1" type A on S. WA-585 except standard construction is all bronze.
RS32	2"	Same as 2" type B except standard construction is all bronze.
RS41	3"	Same as 3" type C except standard construction is all bronze.
RS42	$1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2", 3"	Same as corresponding size RS44, except no air release/strainer.
RS44	$1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2", 3"	These meters are the same as the corresponding size of Red Seal meter except that the standard construction is all bronze. With strainer/air release.

Rating of Apparatus: Size $\frac{3}{4}$ " x 1" - 2 to 12 gpm.
 Size $1\frac{1}{4}$ " - 5 to 25 gpm. Size $1\frac{1}{2}$ " - 10 to 50 gpm.
 Size 2" - 17 to 85 gpm. Size 3" - 25 to 125 gpm (type RS44).
 Size 3" - 60 to 300 gpm (types RS41, RS42).

Application: Measurement of industrial liquids such as solvents, alcohols, solutions and chemicals.

Description: Green Seal Meters are intended for the measurement of industrial liquids other than petroleum products that are used as fuels, and which would corrode the aluminum piston and other aluminum parts of Red Seal Meters.

The 3" Type RS 41 is the industrial meter equivalent to the 3" Type C and is identical except for materials employed in construction. The 3" Type RS 42 is identical with the 3" Type RS 44 but less air release / strainer. It is the industrial meter equivalent to the 3" Type 40 Red Seal which in turn is identical with the 3" Type 4 Red Seal but less air release / strainer.


The 3" Type RS 42 and the 3" Type 40 meters have square flange inlet and outlet connections at right angles in the horizontal plane whereas the 3" Type RS 41 and 3" Type C Red Seal have round flange inlet and outlet connections with the inlet in line with the outlet, or with a bottom inlet and horizontal outlet. The 3" Type RS 42 and 3" Type 40 Red Seal meters are also more "compact" and considerably lighter in weight.


Conditions: The liquids to be metered include solvents, thinners, solutions, and chemicals; measurement of the last two liquids will be permitted only through prior arrangement with Ottawa. In such instances, because the viscosity and other characteristics of the test liquid available at Neptune Meters may not match that of the product to be measured, certificates issued for factory verification shall be annotated "provisional certificate only - on site calibration required 30 days after meter is placed in service." Furthermore, because of the unusual characteristics of some of the liquids to be metered, it may be necessary to reduce the maximum capacity or/and increase the minimum capacity, and to use special materials other than bronze.

Inspection and Testing: The installation is to be examined to check that adequate air elimination is provided if there is possibility of lines ahead of the meter being drained, or of air being entrained at low liquid levels or when tanks empty. Flow control devices and non-return check valves should be installed where required.

References: SW-85-N4,
SL-102-182
Letter of Approval of February 12, 1969.

Note: Approval is granted under the weights and Measures Act, Chapter 292, and Regulations thereunder (P.C. 6894) for use in Canada under the general conditions of P.C. 6894, and under any special conditions listed above.

(for) 
Chief,
Weights and Measures Division,
Standards Branch.


R.W. MacLean,
Director,
Standards Branch.