



S176
9/12/87

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S176

This is to certify that an approval for use for trade has been granted in respect of the pattern and variants of the

Avery Model 8708 Load Cell

submitted by Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/7/89.
This approval expires in respect of new instruments on 1/7/90.

Instruments incorporating a load cell purporting to comply with this approval shall be marked NSC No S176 in addition to the approval number of the instrument.

This approval may be withdrawn if load cells are constructed other than in accordance with the drawings and specifications lodged with the Commission.

The load cells shall be subject to regular certification by the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 7/6/84

- Avery model 8708 load cell of 1500 kg capacity.

Technical Schedule No S176 describes the pattern.

Variant: approved 30/9/86

1. Of 3000 kg capacity.

Technical Schedule No S175 Variation No 1 describes variant 1.

Variant: approved 13/8/87

2. Of 7000 kg capacity.

Technical Schedule No S175 Variation No 2 describes variant 2.

Filing Advice

Supplementary Certificate of Approval No S176 dated 1/12/86 is superseded by this Certificate, and may be destroyed. Table 1 dated 1/12/86 is replaced by the Table included herein (which includes amended values for the pattern and variant 1).

Note: Clause 1.1 Method of Mounting in Technical Schedule No S176 dated 10/7/84, should be amended to read, in part:

"... the methods shown in Figures 2 to 5".

The documentation for this approval now comprises:

Supplementary Certificate of Approval No S176 dated 9/12/87
Technical Schedule No S176 dated 10/7/84
Technical Schedule No S176 Variation No 1 dated 1/12/86
Technical Schedule No S176 Variation No 2 dated 9/12/87
Table 1 dated 9/12/87
Figures 1 and 2 dated 10/7/84
Figures 3 and 4 dated 1/12/86
Figure 5 dated 9/12/87



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TECHNICAL SCHEDULE No S176

Pattern: Avery Model 8708 Load Cell

Submittor: Avery Australia Limited
3-5 Birmingham Avenue
Villawood NSW 2163

1. Description of Pattern

The pattern is an Avery model 8708 load cell of 1500 kg capacity (refer Figure 1 and Table 1) assembled in a Commission-approved basework.

1.1 Method of Mounting

Mounting is to be in accordance with one of the methods shown in Figure 2.

1.2 Marking

The following is the minimum data required to be marked on the load cell:

Manufacturer's name or mark
Model number
Serial number
Maximum rated capacity
Approval number

NSC No S176

TABLE 1

Type: Avery	8708
Maximum capacity	1500 kg
Maximum number of verification scale intervals	1000
Minimum dead load	75 kg
Minimum value of verification scale interval	0.5 kg
Input impedance (nominal)	418 Ω
Output rating (nominal)	1.75 mV/V
Supply voltage (AC or DC)	10 to 17 V
Cable length (± 0.1 m)	1.1 m
Number of leads	4*

*Plus shield



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VARIATION No 1

Pattern: Avery Model 8708 Load Cell.

Submittor: Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163.

1. Description of Variant 1

An Avery model 8708 load cell of 3000 kg capacity (refer Table 1).

TABLE 1

Type: Avery 8708		
Maximum capacity	1500 kg	3000 kg
Maximum number of verification scale intervals	(a) 2500 (b) 2500	(a) 2500 (b) 2500
Minimum value of verification scale interval	(a) 0.18 kg (b) 0.20 kg	(a) 0.36 kg (b) 0.50 kg
Output rating (nominal)	1.75 mV/V	1.75 mV/V
Input impedance (nominal)	390 ohms	390 ohms
Supply voltage (AC or DC)	10-17 V	10-17 V
Cable length (\pm 0.1 m)	3 m	3 m
Number of leads (plus shield)	4	4

- (a) Instruments with or without automatic zero track - multi cell applications
(b) Instruments with or without automatic zero track - single cell applications



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VARIATION No 2

Pattern: Avery Model 8708 Load Cell

Submittor: Avery Australia Limited
3 Birmingham Avenue
Villawood NSW 2163

1. Description of Variant 2

An Avery model 8708 load cell of 7000 kg capacity (refer Table 1).

The Table below replaces Table 1 included in Technical Schedule No S176 dated 1/12/86.

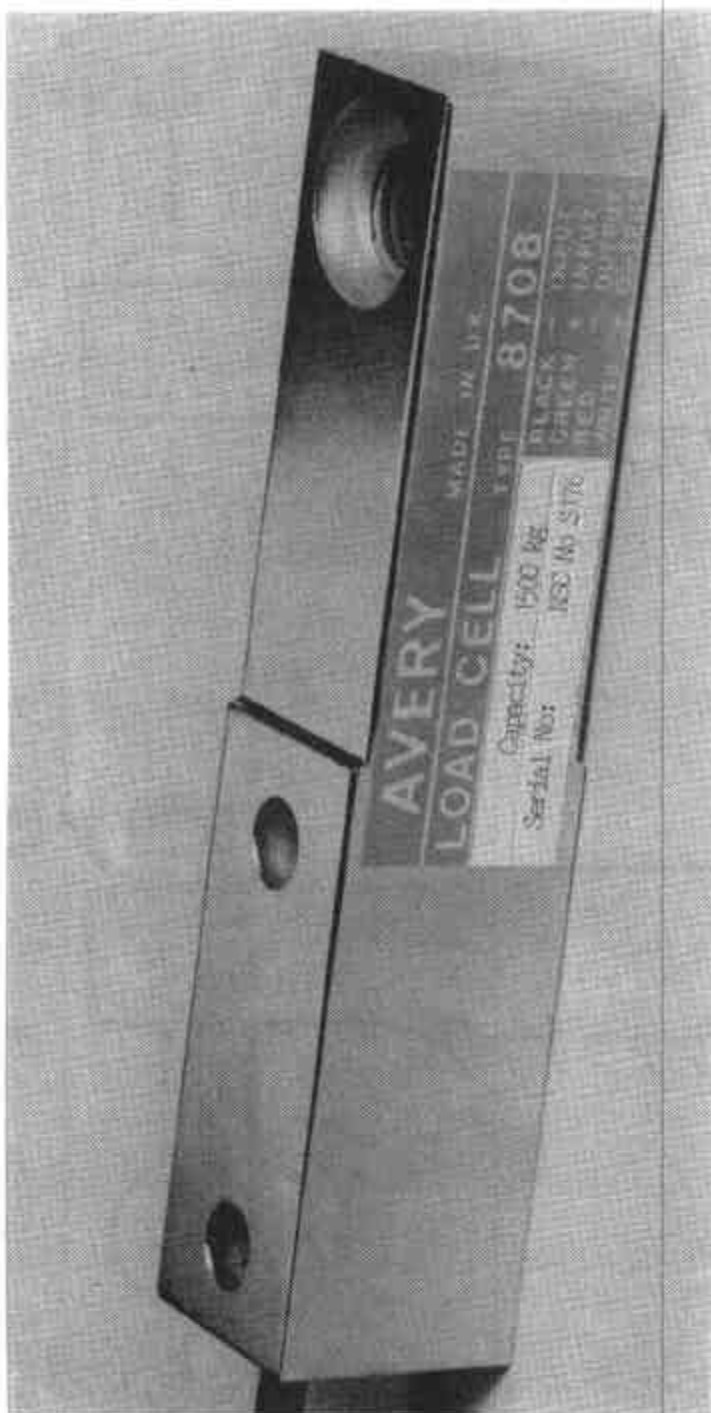
TABLE 1

Type: Avery 8708				
Maximum capacity		1500 kg	3000 kg	7000 kg
Maximum number of verification scale intervals	(a)	2500	(a) 2500	(a) 3000
	(b)	2500	(b) 2500	(b) 3000
Minimum value of verification scale interval	(a)	0.18 kg	(a) 0.36 kg	(a) 0.70 kg
	(b)	0.18 kg	(b) 0.36 kg	(b) 1.39 kg
Output rating (nominal)		1.75 mV/V	1.75 mV/V	1.75 mV/V
Input impedance (nominal)		390 ohms	390 ohms	410 ohms
Supply voltage (AC or DC)		10-17 V	10-17 V	10-17 V
Cable length (\pm 0.1 m)		3 m	3 m	15 m
Number of leads (including shield)		5	5	7

(a) Instruments with automatic zero track

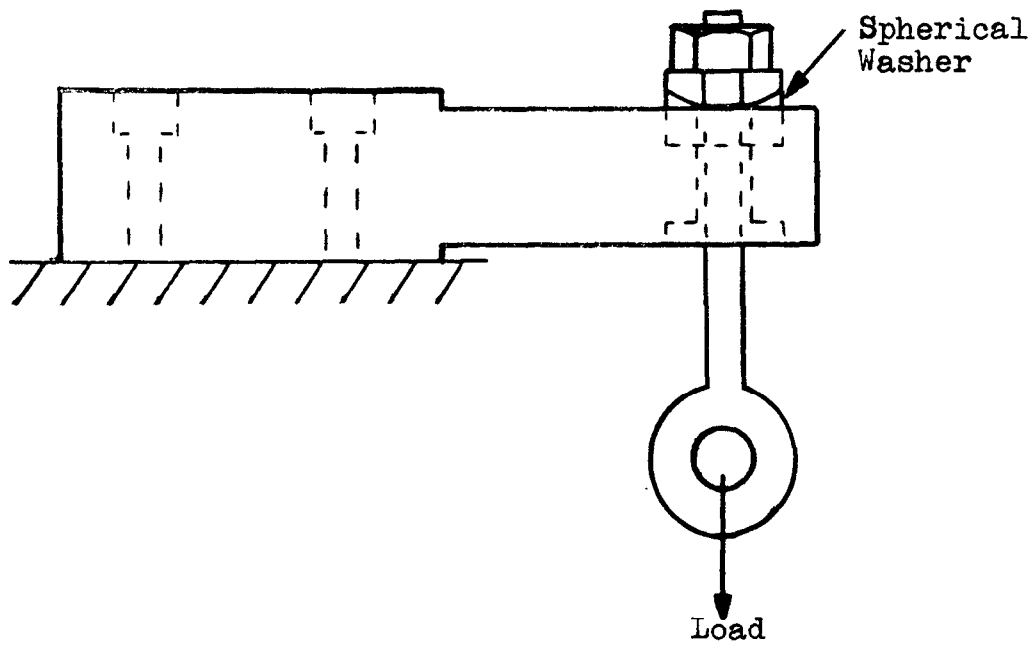
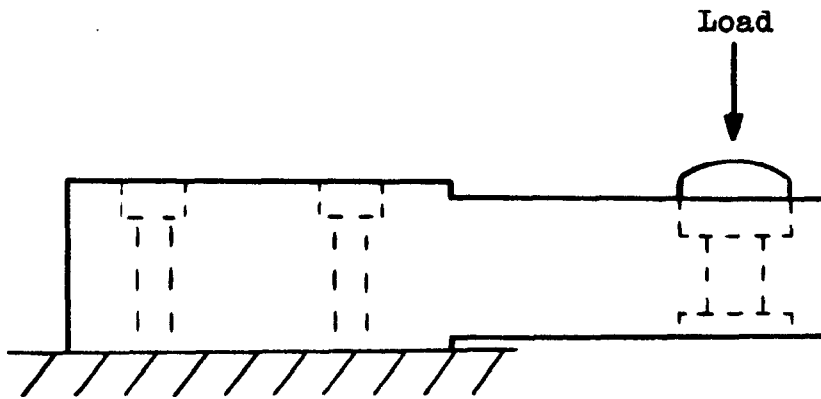
(b) Instruments without automatic zero track

FIGURE S176 - 1



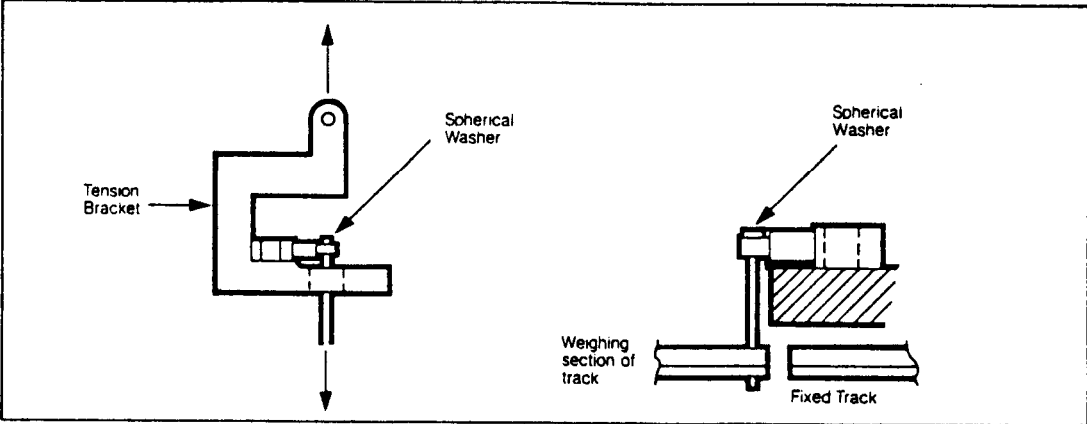
Avery Model 8708 Load Cell

FIGURE S176 - 2

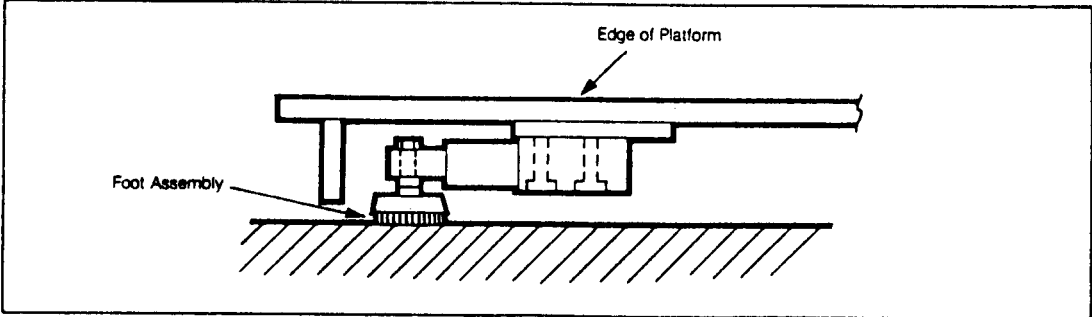


Typical Mounting Methods

FIGURE S176 - 3

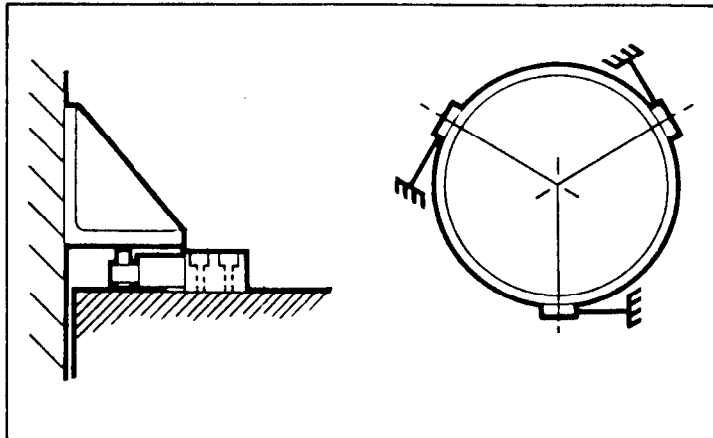
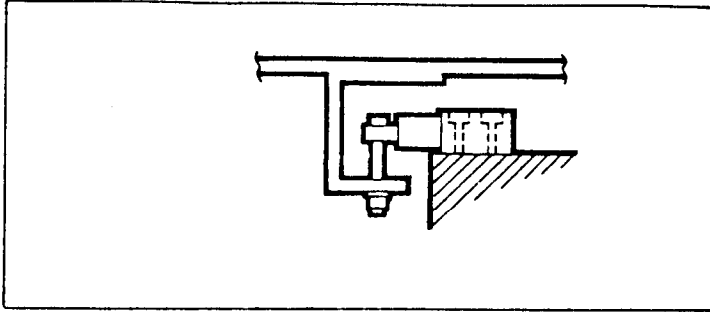


Overhead Track Scale



Low Profile Platform Scale

FIGURE S176 - 4



Optional Mounting Methods

FIGURE S176 - 5

