

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 2
to
AS/NZS 2566.2:2002
Buried flexible pipelines
Part 2: Installation

REVISED TEXT

The 2002 edition of AS/NZS 2566.2 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Preface, Clauses 6.2, 6.3.1, Tables 5.6 and 6.1, and Appendix M Clauses M5.2, M5.3, M7.5.

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AMDT
No. 2
MAY
2018

Preface

After third paragraph, *insert* the following:

The purpose of Amendment 2 to AS/NZS 2566.2 is to update the text to reflect changes in AS/NZS 2566.1 Amendment 1, and to make editorial corrections.

Additionally, errors in Table 6.1 have been corrected.

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Table 5.6

Delete Table 5.6, including notes, and *replace* with the following:

TABLE 5.6
DEFLECTION CONTROL CRITERIA—
ALLOWABLE VERTICAL DEFLECTIONS

Pipe material	Maximum allowable short-term vertical pipe deflection at 30 days $\Delta_{y \text{ sall}}$ %
Plastics	
GRP	4.1
ABS, PE 80, PE 100, PP-B, PVC-U, PVC-M, PVC-O	5.0
Metallic	
DI	3.2
Steel—	
(a) Welded joint with—	
(i) no lining or flexible lining	4.0
(ii) cement mortar lining	3.2
(b) Elastomeric joint	3.2

NOTES:

- The diameter on which the deflection criteria are based is the pipe wall neutral axis diameter. For practical purposes the mean internal diameter may be used.
- One time period after backfilling is usually sufficient for control purposes.
- Refer to Table 6.2 where adjustment to time periods is required.

Clause 6.2

At the end of the clause, *add* the following note:

NOTE: It is advisable to begin testing early in the pipeline installation to confirm adequacy of laying procedures and, where appropriate, to increase the length tested progressively as experience is gained.

Clause 6.3.1

Delete note.

Table 6.1

Delete Table 6.1 and *replace* with the following:

TABLE 6.1

LOW PRESSURE AIR AND VACUUM TESTS—MINIMUM TIME INTERVALS FOR 7 kPa PRESSURE CHANGE IN PIPELINE

DN	Minimum time minutes	Maximum length for minimum time to apply m	Test length m					
			50	100	150	200	250	300
			Minimum test duration minutes					
80	1.5	231	1.5	1.5	1.5	1.5	1.6	2
100	2	185	2	2	2	2	3	3
150	3	123	3	3	3	5	6	7
225	4	82	4	5	8	10	13	15
300	6	62	6	9	14	18	23	28
375	7	49	7	14	22	29	36	43
450	9	41	10	21	31	41	52	62
525	10	35	14	28	42	56	70	84
600	11	31	18	37	55	73	92	110
675	13	27	23	46	70	93	116	139
750	14	25	29	57	86	115	143	172
900	17	21	41	83	124	165	207	248
1000	19	19	51	102	153	204	255	306
1050	20	18.8	56	112	169	225	281	337
1200	23	15	73	147	220	294	367	441
1500	28	12	115	230	344	459	574	689

NOTES:

- The time interval may be reduced for a proportionate reduction in the allowable pressure drop. Where there is no detectable change in pressure after 1 h of testing, the section under test shall be deemed acceptable.
- This Table is based on the following equation:

$$T = 1.02D_i k/q$$

where

T = time for a 7 kPa pressure drop, in seconds

D_i = pipeline internal diameter, in metres

q = allowable volume loss in cubic metre/minute/square metre taken as 0.0009 m³/min.m²

k = 0.054DL but not less than 1
- Columns 2 and 3 have been calculated with $k = 1.0$.
- The appropriate air or vacuum test/pressure method for pipes larger than DN 750 should be established by reference to the specifier.