

94-0163-04



ISSUED 6 Jan 97

DB 94-0163 Plot 05ab

6.9 DRAINAGE SCOURS

Drainage and scouring outlets (to a suitable drainage point) may be required in some cases as determined by the Superintendent's Representative to drain long sections of the pipeline for maintenance purposes.

6.10 AIR-RELIEF VALVES (where approved by the Superintendent's Representative)

6.10.1 STANDARD DN80 AIR RELIEF VALVE FOR PUMPING MAINS

Install a Standard DN80 SA Water Fire-Plug/Sewer Air Valve on a flanged cast iron riser pipe of suitable height off the pumping main (same class as pumping main), at the highest point (all housed in an SA Water Cast Iron Street Box Assembly, Ref WCM C9 Drg 91-0090-02), and finished flush with the design surface level.

Provide corrosion protection as detailed below - 'Corrosion Protection'.

Also install a Sewer Air Valve Indicator Sign and Post at an appropriate distance off the road edge (similar to a white painted 'Stop Valve' sign as detailed on WCM C7 Drg 91-0061-01, except with wording 'Sewer Air Valve').

(Refer to SA Water 'Water Reticulation Authorised Fittings Catalogue' for purchase details of available fittings).

6.10.2 DN25 AIR RELIEF VALVE FOR SHORT, SMALL DIA PUMPING MAINS

Install a DN25 air valve assembly off the pumping main at the highest point.

The assembly shall comprise a DN25 gun metal tapping saddle with a DN25 copper riser pipe (of appropriate height for the specific site), and a DN25 ball valve with threaded outlet to accept a hose, all housed in an SA Water 'light' duty HDPE Street Box Assembly, Ref WCM C9 Drg 91-0090-02, and finished flush with the final surface level.

Provide corrosion protection as detailed below - 'Corrosion Protection'.

Also install a Sewer Air Valve Indicator Sign and Post at an appropriate distance off the road edge (similar to a white painted 'Stop Valve' sign as detailed on WCM C7 Drg 91-0061-01, except with wording 'Sewer Air Valve').

(Refer to SA Water 'Water Reticulation Authorised Fittings Catalogue' for purchase details of available fittings).

7. CORROSION PROTECTION

7.1 DICL PIPELINES

7.1.1 BURIED DICL PIPE BARRELS, AND DICL AND CI 'SOCKETED' FITTINGS;

Install a continuous barrier of Linear Low Density Polyethylene protective sheathing (LLDPE) as detailed in Water Construction Manual (WCM) Page C1 Drawing 91-0055-01 and Page C2 Drawing 91-0056-01.

LLDPE shall have a minimum thickness of 200 microns, in accordance with Clause 3.4.2 in SA Water Standard Specification DS9.

7.1.2 BURIED STOP VALVES, AIR-RELIEF VALVES, SCOUR VALVES ETC (HOUSED IN STREET BOXES), INCLUDING BURIED METALLIC FLANGED FITTINGS/SPECIALS;

Wrap with a Petrolatum Anti-Corrosion System in accordance with SA Water Standard Specification DS 29.

NOTE: A combination of LLDPE protective sheathing and a Petrolatum Anti-Corrosion System may be used as shown on WCM Page C2.

7.2 UPVC PIPELINES

Protect all buried stop valves, air-relief valves, scour valves etc (housed in Street Boxes), including all buried metallic fittings ('socketed' and flanged) with a Petrolatum Anti-Corrosion System in accordance with SA Water Standard Specification DS 29.

7.3 MSCL PIPELINES

Protective coatings for buried and above ground mild steel concrete lined pipelines (MSCL) and fittings shall be specified by the Superintendent's Representative, appropriate for the specific site and application.

7.4 FITTINGS LOCATED IN CONCRETE VALVE CHAMBERS ETC

All DICL and MSCL flanged fittings and specials (including all bolt heads and nuts) shall be protected from corrosion using a Petrolatum Anti-Corrosion System in accordance with SA Water Standard Specification DS 29.

For CI, HDPE and MDPE bolted connections, only bolt heads and nuts shall be coated with Mastic and sealed with Radloid caps filled with Mastic (Ref Petrolatum Anti-Corrosion System).

More extensive protection may be specified by the Superintendent's Representative, appropriate for the fitting and material type and specific site conditions.

Chg		Amendment -	Des	JIS		SOUTH AUSTRALIAN WATER CORPORATION 	SEWER CONSTRUCTION MANUAL PAGE M4 STANDARD SUBMERSIBLE SEWAGE PUMPING STATION - STANDARD NOTES (3 of 3)	94-0163-04
Drn			Drn	CLS				
Ckd			Exm					
Unit Ldr.			Unit Ldr.					
R.M.Jones Executive Manager 14 / 6 / 96 ENGINEERING GROUP								
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