

- THIS DRAWING MAY ONLY BE USED IF AN ODOUR RISK ASSESSMENT HAS BEEN UNDERTAKEN TO CONFIRM THAT PASSIVE ODOUR TREATMENT (e.g. A CARBON CANISTER) IS NOT REQUIRED. ODOUR DISPERSION MODELING MAY BE REQUIRED AS PART OF THIS RISK ASSESSMENT. THE DESIGN SHALL BE USED WHERE A MIN. HGL OF 5 mH₂O IS AVAILABLE ABOVE THE VALVE AT ALL THE TIMES.
- ALL WORKS TO BE IN ACCORDANCE WITH SYDNEY WATER TECHNICAL SPECIFICATION - CIVIL, AND SYDNEY WATER TECHNICAL SPECIFICATION - MECHANICAL UNO.
- ALL PIPES/FITTINGS/VALVES/OTHER PRODUCTS MUST BE TO EPS 500 OR EPS 501 UNO.
- ALL DIMENSIONS ARE IN MILLIMETERS UNO.
- ALL BOLTS, NUTS AND WASHERS TO BE GRADE 316 STAINLESS STEEL. THREADED SECTIONS OF BOLTS TO BE COATED WITH ANTI-SEIZE LUBRICANT RECOMMENDED BY BOLT MANUFACTURER.
- METAL ACCESS COVER MUST BE GATIC GM1615D MULTI-PART COVER OR APPROVED EQUIVALENT.
- AUTOMATIC AIR VALVE MUST SEAL AT A PRESSURE OF 50kPa OR LESS.
- ALL FLANGES MUST BE TYPE 2 IN ACCORDANCE WITH DTC/114/5.
- DESIGNER MUST SELECT A SUITABLE OUTLET FOR THE DRAIN PIPE FOR FREE DISCHARGE TO EXISTING SEWER, WET WELL, STORMWATER OR HEADWALL. DRAIN PIPE MUST BE FITTED WITH A DN100 DWV PVC-U SWJ FLAP VALVE.
- CHAMBER LIDS MUST NOT OPEN TOWARDS ROAD, CHAMBER MUST BE LOCATED OUT OF TRAFFIC LANE.
- LARGER END OF REDUCING TAPER TO MATCH SIZE OF REDUCING TEE BRANCH ON MAIN PIPE.
- TAPPING SADDLE AND BALL VALVE NOT REQUIRED IF AIR VALVE IS SUPPLIED WITH A BLEED VALVE. DOWNTURN ELBOW TO BE INSTALLED ON AIR VALVE BLEED VALVE.
- PRECAST CONCRETE CHAMBER TO HAVE A MINIMUM CONCRETE STRENGTH OF 25MPa AT LIFTING.
- SPREADER BARS MUST BE USED DURING LIFTING TO ENSURE LIFT FORCE IS VERTICAL.
- THIS DIMENSION IS VARIABLE DEPENDING ON THE HEIGHT OF THE AIR VALVE. NOT LESS THAN 300.
- MAINTENANCE HOLE NOTES ON DTC/2000 FOR FOUNDATION, CONCRETE, FORMWORK, AND REINFORCEMENT APPLY TO AIR VALVE CHAMBERS.
- DIMENSION MAY NEED TO BE INCREASED IF TWIN-CHAMBER AIR VALVE IS INSTALLED. 100 mm CLEARANCE MUST BE PROVIDED BETWEEN UNDERSIDE OF SUPPORT BEAM AND TOP OF VALVE (WHERE VALVE EXTENDS BENEATH THE SUPPORT BEAM).

DTC/2000 MAINTENANCE HOLES - CAST IN-SITU CONSTRUCTION NOTES
DTC/2351 AIR VALVES FOR SEWER PRESSURE MAINS \leq DN600 SHEET 2 OF 2

MK No.	SIZE	MATERIAL	RATING	DESCRIPTION	QTY
1	TO MATCH MAIN	TO MATCH MAIN	PN16	REDUCING TEE WITH FLANGED BRANCH - REFER TABLE 2	1
2	DN100 OR OD110 SMALLER END	DIFB OR PE100	PN16	REDUCING TAPER - REFER NOTE 11	
3	OD110	PE100	PN16	PIPE C/W STUB FLANGE AND SS316 BACKING RING	2
4	OD110	PE100	PN16	90° ELBOW	1
5	OD110	PE100	PN16	PIPE - LENGTH TO SUIT	
6	DN100	DIFBE	PN16	FL-FL GATE VALVE RESILIENT SEATED C/W EXTENSION SPINDLE, SHROUD PIPE & SURFACE BOX	1
7	OD110	DICL	FLANGE CLASS	FL-FL PIPE - LENGTH TO SUIT	1
8	DN100 x DN50 OR DN100 x DN80	DIFBE	PN16	FL-FL-FL EQUAL TEE - BRANCH SIZE TO SUIT AIR VALVE	1
9	DN25	SS316	PN16	BALL VALVE C/W DOWNTURN ELBOW - BSP TAPPING, REFER NOTE 12	1
10	DN50 OR DN80	SS316	PN16	COMBINATION AIR VALVE (SIZE TO SUIT APPLICATION) C/W BLEED VALVE AND DOWNTURN ELBOW ON BLEED VALVE - REFER NOTE 12	1
11	DN100	DI	PN16	FL-FL GATE VALVE C/W HANDWHEEL - RESILIENT SEATED	1
12	DN100	DIFBE	PN16	FL-FL 90° ELBOW	1
13	DN100	DICL	FLANGE CLASS	FL-FL PIPE - 150 LONG	1
14	DN100	SS316	PN16	FL KAMLOCK COUPLING C/W CAP (MALE)	1
15	DN100	uPVC	SN10	DRAIN PIPE - REFER NOTE 9	1
16	OD110 x 25	PE100	PN16	TAPPING SADDLE - REFER NOTE 12	1

MAIN SIZE	BRANCH SIZE INTERNAL DIAMETER
≤ DN300	EQUAL TO MAIN PIPE INTERNAL DIAMETER
> DN300 AND ≤ DN500	300 MIN
> DN500	0.6 MIN x MAIN PIPE INTERNAL DIAMETER

