



TABLE 1
EQUAL TEE SIZES

NOMINAL DIAMETER	MEASUREMENT A
200mm	230mm
250mm	280mm
300mm	305mm
350mm	355mm
400mm	405mm
450mm	460mm
500mm	510mm
550mm	560mm
600mm	610mm
800mm	815mm

TABLE 2
AIR VALVE SIZES

BULK PIPE NOMINAL DIAMETER	AIR VALVE SIZE
UP TO AND INCLUDING 160mm	DN50
>160mm UP TO AND INCLUDING 315mm	DN50
>315mm UP TO AND INCLUDING 400mm	DN80
>400mm UP TO AND INCLUDING 600mm	DN100
>600mm	DN150

NOTES:

- CONCRETE
 - CONCRETE CLASS:
 - CONCRETE SLABS: 30MPa/19mm
- SPECIALS
 - MANUFACTURING OF STEEL PIPES TO BE IN ACCORDANCE WITH PARTICULAR SPECIFICATION M-PSP.
 - FLANGE DRILLING SHALL BE TO SANS 1123/2001, THE APPLICABLE TABLE SHALL BE CORRESPONDENT TO THE PIPE CLASS
 - STEEL PIPE SECTIONS, AIR VALVES, GATE VALVES AND FLANGE ADAPTORS TO BE THE SAME PRESSURE CLASS AS THE IMMEDIATE UPSTREAM PIPEWORK
 - ALL BOLTS, NUTS AND WASHERS TO BE 300 WA MILD STEEL, HOT DIPPED GALVANISED TO 90 MICRON EQUIVALENT THICKNESS
 - ALL SPECIALS UPSTREAM (BELOW) GATE VALVE TO BE WRAPPED IN DENSOTAPE (OR SIMILAR APPROVED)
 - RISER STEEL PIPE AND GATE VALVE TO BE THE SAME DIAMETER AS THE AIR VALVE (TABLE 2)
 - FOR PIPELINES < 200mm Ø, THE EQUAL TEE SHOULD BE REPLACED WITH A UNIVERSAL SADDLE AND PRESSURE TEE
 - LINING AND COATING OF PIPE SPECIALS TO BE AS SPECIFIED ON DRAWING DWS-LNW-ECS078-03-902 AND PARTICULAR SPECIFICATION C-PLI.
- CONCRETE MANHOLES
 - FOR PIPELINES UP TO 200mm, USE 1250mm Ø MANHOLE RINGS
 - FOR PIPELINES > 200mm, USE 1500mm Ø MANHOLE RINGS
 - FOR TWO PIPES IN A SINGLE TRENCH, OFFSET AIR VALVE CHAMBERS BY 5M C/C
- MATERIAL OF BULK PIPELINE
 - THE DRAWING REPRESENTS THE CONNECTION TO THE BULK PIPELINE. THE DRAWING INDICATES THE CONNECTION TO OPVC ON THE ONE SIDE AND THE CONNECTION TO GRP ON THE OTHER.

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DATE:

DESIGNED

GV

DRAWN

NH

CHECKED

GV



MOPANI DISTRICT MUNICIPALITY WATER & SANITATION REVITALISATION PROGRAMME

PIPELINE A
AIR VALVE DETAIL

No

REVISION

DATE

DRAWING No.

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ISSUE FOR CONSTRUCTION

31/08/2015

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VARIOUS CHANGES

14/10/2020

DWS-LNW-ECS078-03-508

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