# PIPE SCHEDULE – PUMP DELIVERY TO SPRAY HEADERS

| Mark | NB | Description | Sketch | Qty | Remarks |
|---|---|---|---|---|---|
| KDS 01 | 80 NB | 'ELAFLEX' - FLEXIBLE RUBBER JOINT | 130; PN 40 FLANGE TO SUIT KSB PUMP; FLANGE TO SANS 1123 (1600/3) | 1 | FLANGED ONE END; PN 40 TO SUIT PUMP; FLANGE OPPOSITE END; TO SANS 1123 (1600/3) |
| KDS 02 | 80 / 50 | UNEQUAL TEE-PIECE (SCH. 40) FAB FROM PIPE | 50 NB; 150; 150; 150; FLANGES TO SUIT VALVES (16 BAR RATED) | 1 | FLANGED ONE END TO SANS 1123 (1600/3) OTHER FLANGES TO TO SUIT VALVES |
| KDS 03 | 80 NB | 90° ELBOW FABRICATE FROM LRWE (SCH. 40) | 210; 210 | 7 | FLANGES TO SANS 1123 (1600/3) |
| KDS 04 | 80 NB | 90° SPECIAL ELBOW FABRICATE FROM LRWE (SCH. 40) | 210; SEE NOTE 17; 495; * | 1 | FLANGED SHORT END LOOSE FLG. LONG END FLANGES TO SANS 1123 (1600/3) |
| KDS 05 | 80 NB | CLOSURE PIPE (SCH. 40) | * 2705; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 06 | 80 NB | CLOSURE PIPE (SCH. 40) | * 2935; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 07 | 80 NB | CLOSURE PIPE (SCH. 40) | * 800; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 08 | 80 NB | CLOSURE PIPE (SCH. 40) WITH 25 NB COUPLING | SEE NOTE 17; * 5185; 25 NB x 3000* SCR'D. COUPLING; 180 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 09 | 80 NB | CLOSURE PIPE (SCH. 40) | * 2730; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 10 | 80 NB | CLOSURE PIPE (SCH. 40) | * 1265; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 11 | 80 NB | STRAIGHT PIPE (SCH. 40) | 3910 | 1 | FLANGED BOTH ENDS FLANGES TO SANS 1123 (1600/3) |
| KDS 12 | 80 NB | STRAIGHT PIPE (SCH. 40) | 3755 | 1 | FLANGED BOTH ENDS FLANGES TO SANS 1123 (1600/3) |
| KDS 13 | 80 NB | SPECIAL TEE-PIECE (SCH. 40) FAB FROM BW FITTINGS | SEE DETAIL | 1 | FLANGES TO SANS 1123 (1600/3) |
| KDS 14 | 80 NB | SPECIAL ELBOW FABRICATE FROM LRWE (SCH. 40) | SEE DETAIL | 1 | FLANGES TO SANS 1123 (1600/3) |

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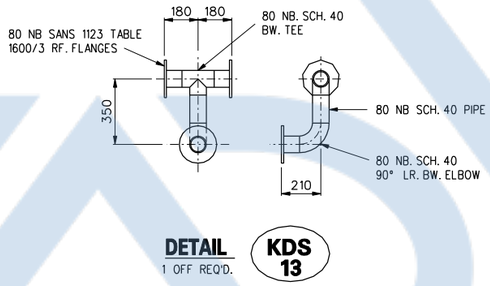
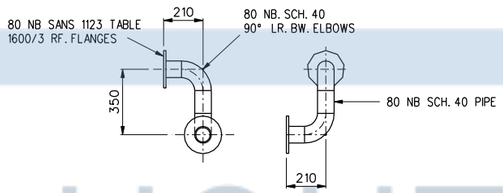
| Mark | NB | Description | Sketch | Qty | Remarks |
|---|---|---|---|---|---|
| KDS 15 | 80 NB | CLOSURE PIPE (SCH. 40) | * 1045; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 16 | 80 NB | CLOSURE PIPE (SCH. 40) | * 1060; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 17 | 50 NB | CLOSURE PIPE (SCH. 40) | * 420; SEE NOTE 17 | 1 | FLANGED ONE END LOOSE FLG. OPP. END FLANGES TO SANS 1123 (1600/3) |
| KDS 18 | 50 NB | 90° ELBOW FABRICATE FROM LRWE (SCH. 40) | 165; 165 | 1 | FLANGES TO SANS 1123 (1600/3) |
| KDS 19 | 50 NB | 90° SPECIAL ELBOW FABRICATE FROM LRWE (SCH. 40) | 275; 290; 145; 145 | 1 | FLANGES TO SANS 1123 (1600/3) |

# VALVE SCHEDULE

| | | | | |
|---|---|---|---|---|
| V4.1 | 80 NB | BUTTERFLY VALVE RUBBER LINED ACTUATED | 1 | 16 BAR RATED |
| V4.2 | 80 NB | BUTTERFLY VALVE RUBBER LINED ACTUATED | 1 | 16 BAR RATED |
| V6 | 50 NB | FLANGED INLINE PRESS. RELIEF VALVE SETTING AT 16 BAR | 1 | 16 BAR RATED |
| V8 | 80 NB | NON-RETURN VALVE WAFER TYPE ST. STL. UNIFLOW DN80 PN16 316SS | 1 | 16 BAR RATED |
| V9 | 80 NB | RSV VALVE WITH STAINLESS STEEL RISING SPINDLE | 1 | 16 BAR RATED |




**DETAIL** KDS 13
1 OFF REQ'D.




**DETAIL** KDS 14
1 OFF REQ'D.

## GENERAL NOTES

1. APPLICATION :
2. PIPE CONTENTS :
3. WORKING PRESSURE :
4. TEMPERATURE :
5. PIPE SPCIFICATION :
6. PIPE MATERIAL :
7. FITTING SPECIFICATION :
8. FITTING MATERIAL :
9. FLANGE SPECIFICATION :
10. FLANGE MATERIAL :
11. WELDING SPECIFICATION :
12. BOLT SPECIFICATION :
13. NUT SPECIFICATION :
14. GASKET SPECIFICATION :
15. GASKET MATERIAL :
16. CORROSION PROTECTION :
    PIPING :
    FASTENERS :
17. WHERE • "CLOSURE" IS INDICATED, APPROXIMATELY 150 mm HAS BEEN INCLUDED IN STATED LENGTH, WITH ONE FLANGE TO BE SUPPLIED LOOSE AND WIRED TO MATING ITEM. SITE CUT AND FIT (TACK WELD) THEN RETURN TO FABRICATOR FOR FINAL WELDING.
18. CONTRACTOR TO SUPPLY ALL BOLTS, STUDS, NUTS AND WASHERS.
19. ALL BOLTS, STUDS, NUTS AND WASHERS TO BE PLACED IN CONTAINERS, SEALED AND CLEARLY MARKED WITH DRG. NO. AND ORDER NO.
20. ALL PIPES TO BE CLEARLY MARKED WITH JOB NO, DRG. NO. AND ITEM NO. FOR ERECTION PURPOSES.

**READ THIS DRAWING IN CONJUNCTION WITH DRAWING NUMBER**

J A DRAUGHTING

| REVISIONS | | | REFERENCE DRAWINGS | |
|---|---|---|---|---|
| REV No | DATE | DESCRIPTION | DRG No. | DESCRIPTION |

JA DRAUGHTING
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(CONTRACTOR DRAWING NUMBER)

CONTRACTOR APPROVAL
PROFESSIONAL ENGINEER
NAME
SIGNATURE
REG. NUMBER
DATE

| CONTRACTOR MANAGER | SIGNATURE | DATE |
|---|---|---|
| . | | |

EXAMPLE
NOT FOR MANUFACTURE

| | NAME | DATE |
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| STRUCTURAL | . | . |
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| PROJECT APPROVAL | SIGNATURE | DATE |
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| ENGINEERING MANAGER | . | . |
| PROJECT MANAGER | . | . |
| CLIENT APPROVAL | | |
| ENGINEERING | . | . |
| OPERATIONS | . | . |

WW7

EXAMPLE
ENGINEERING - CIVIL
LDV MAINTENANCE
WASHING OF LDV's
PIPING SCHEDULE - KSB PUMP TO WHEEL WASHER SPRAY HEADERS

SCALE N.T.S.
SHEET OF
A1
REVISION AA

PRINT AS OVERSIZE