

BUILDING STOP VALVE, TRIPLE OFFSET BUTTERFLY VALVE WITH WELDED CONNECTIONS. LOCATE NEAR BLDG. WALL PENETRATION.

WELDED CONNECTIONS UP TO AND INCLUDING FIRST STEAM, COND. & BLOWDOWN VALVE.

1/2" BLOWDOWN EXTEND TO FLOOR/DRAIN.

INVERTED BUCKET TRAP (TYP.)

1/2" TRAP TEST VALVE (TYP.)

BLDG. FOUNDATION WALL.

BUILDING SHUT-OFF VALVE - LOCATE NEAR BLDG. WALL PENETRATION.

ELECTROMAGNETIC CONDENSATE METER

5' MAX.

PRESSURE REGULATING VALVE (TYP.)

10 DIA. MIN.

BY-PASS GLOBE VALVE (TYP.)

LIQUID FILLED GAUGE WITH SNUBBER (TYP.)

SEVERE DUTY CHECK VALVE (TYP.) - SEE SPECIFICATIONS

CONDENSATE RETURN UNIT

ROUTE FULL SIZE TO FLOOR SINK/DRAIN. PROVIDE TRAP SEAL AS SHOWN.

ROUTE FULL SIZE TO FLOOR SINK/DRAIN

4" NOMINAL HOUSEKEEPING PAD

BASKET STRAINER - PROVIDED WITH UNIT

NEEDLE VALVE

CONDENSATE ACCUMULATOR (TYP.)

BY-PASS GLOBE VALVE (TYP.)

2

3

10 DIA. MIN.

PRESSURE REGULATING VALVE (TYP.)

PRESSURE SENSING LINE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS (TYP.)

SAFETY RELIEF VALVE

ROUTE TO DRAIN FULL SIZE.

DRIP PAN ELBOW

ROUTE FULL SIZE VENT TO ROOF, TERMINATE 7' MIN. ABOVE ROOF.

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**GENERAL NOTES:**

1. ALL THREADED NIPPLES TO BE SCH. 80.
2. ALL COND. RETURN PIPING TO BE SCH. 80.

**KEYED NOTES:**

- 1 WITH APPROVAL OF F&S ENGINEERING SERVICES RELIEF VALVE(S) NOT REQUIRED IF PRESSURE RATING OF BUILDING COMPONENTS EXCEEDS RELIEF VALVE SETTING FOR STEAM DISTRIBUTION SYSTEM ENTERING BUILDING.
- 2 ECCENTRIC PLUG ROTARY CONTROL VALVE(S) MAY BE SUBSTITUTED FOR SELF CONTAINED PRESSURE REGULATOR(S).
- 3 SINGLE CONTROL VALVE MAY BE PROVIDED IN LIEU OF TWO, IF SYSTEM TURN DOWN REQUIREMENT DOES NOT EXCEED 10/1.

ROUTE FULL SIZE VENT TO ROOF. SEE PLANS FOR ROUTING

PC FROM OTHER CONDENSATE RETURN UNITS, IF ANY.

2 1/2" PC

3/4" BYPASS

SLOPE

SERVICE DRAIN VALVE, 1/2 MAIN SIZE, 2" MAX.

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FLOW DIAGRAM - STEAM PRESSURE REGULATION AND CONDENSATE RETURN

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN FACILITIES STANDARDS - ADDENDUM 1, REVISED DRAWING

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**FLOW DIAGRAM - STEAM PRESSURE REGULATION AND CONDENSATE RETURN**

NOT TO SCALE

23 22 00-02