

179199

REVISIONS		
K. LOOK	5/23/07	0
NEW ISSUE		
P.L.S.	5/23/07	
M. SIMIONE	9/1/09	1
REVISED LENGTH OF ITEM 4 IN PLAN VIEW		
D.R.J.	8/24/09	
G. LUDWIG	3/31/11	2
ADDED AAT-57 175# & AAT-90 175# TO TABLE 2. REVISED ITEM 4 DESCRIPTION.		
D.R.J.	3/30/11	
G. LUDWIG	5/22/12	3
ADDED NOTE 20 CHANGED RM3800DCID TO RM5600DCID		
H. D.	4-23-12	

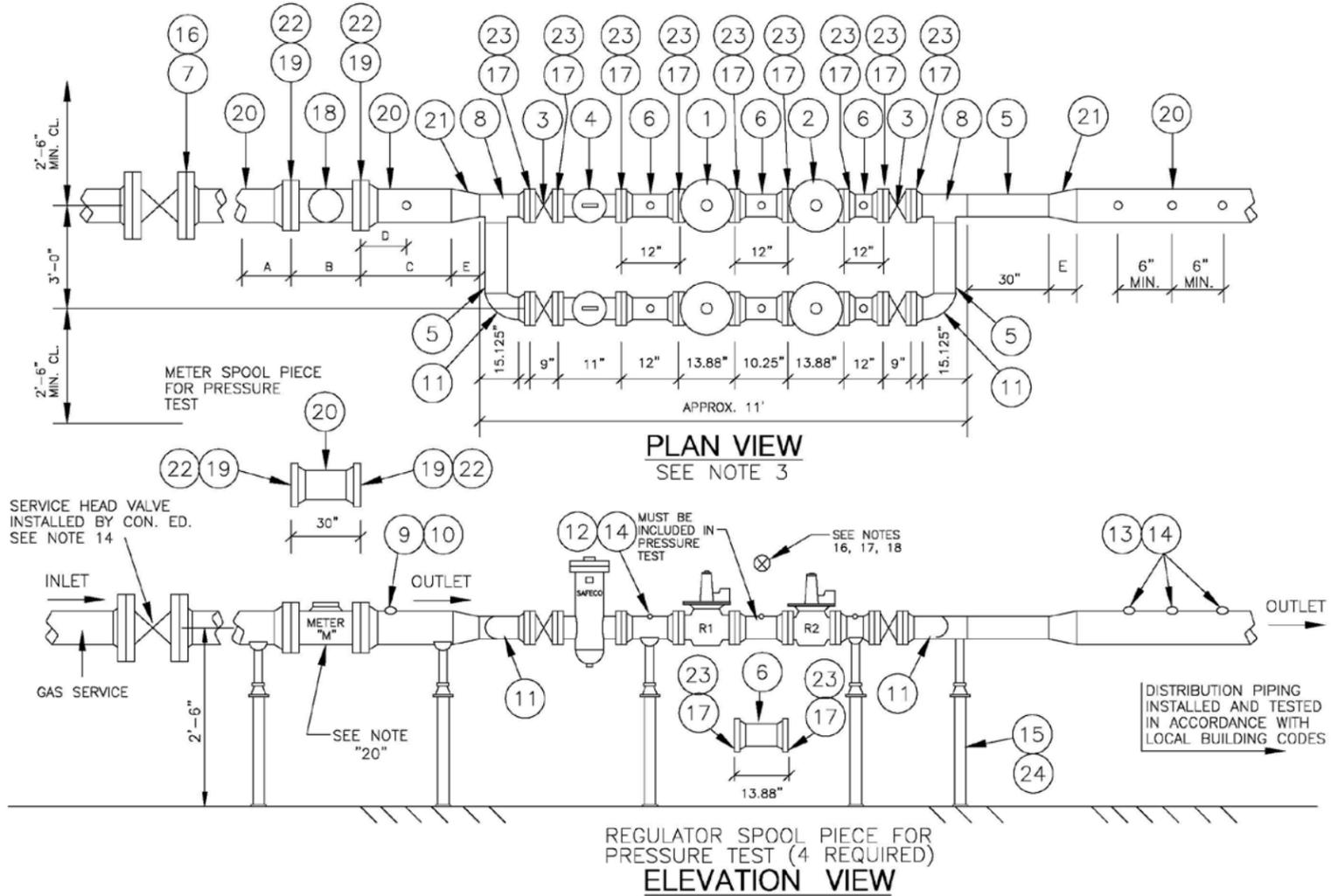


TABLE 1 - DIMENSION 'V', 'M', 'B' (SEE NOTES 6 & 7)

SIZE OF HEAD OF SERVICE VALVE	V	
SIZE OF METER FLANGE/PIPING	M	
SIZE OF METER FLANGE TO FLANGE	B	

TABLE 2 TURBINE METER DIMENSIONS 'A', 'B', 'C', 'D', 'E', 'M'

METER	TURBINE METER DIMENSIONS 'A', 'B', 'C', 'D', 'E', 'M'			ROTARY METER DIMENSIONS 'A', 'B', 'C', 'D', 'E', 'M'		
	AAT-18 175# 4GTS 175#	AAT-35 175# AAT-57 175# 6GTS 175#	AAT-60 175# AAT-90 175# 8GTS 175#	5M175TCID RM5000TCID 7M175TCID RM7000TCID	11M175TCID RM11000TCID 16M175TCID RM16000TCID RM23000TCID	RM3800DCID RM5600DCID
M	4"	6"	8"	3"	4"	6"
A	40"	60"	80"	36"	36"	36"
B	14"	16"	21"	6.75", 9.5"	9.5"	16.0"
C	20"	30"	40"	16"	16"	16"
D	6"	12"	18"	8"	8"	8"
E	4"	5.5"	10"	3.5"	4"	5.5"

TABLE 3 - REGULATOR CONFIGURATIONS

SPECIFIED REGULATORS	APPLICABLE PRESSURE SYSTEM	R1	R2
2"-133HP	MEDIUM/HIGH	2"-133HP	2"-133HP
2"-99 / 2"-133HP	MEDIUM/HIGH	2"-133HP	2"-99
2"-EZR / 2"-1098	MEDIUM/HIGH	2"-EZR	2"-1098
2"-1098 / 2"-1098	MEDIUM/HIGH	2"-1098	2"-1098

BILL OF MATERIALS

ITEM	DESCRIPTION	SPEC. OR STD.	QUANTITY
1	2" FISHER REGULATOR (R1), 150 LB. SUPPLIED BY CON ED		2
2	2" FISHER REGULATOR (R2), 150 LB. SUPPLIED BY CON ED		2
3	2" 150 LB. BALL VALVE (BALL-O-MAX, BALON-NO PLUG VALVES)		4
4	2" GAS FILTER, SUPPLIED BY CON ED		2
5	2" STEEL PIPE, SCH. 40	ASTM - A106 GRADE "B"	AS REQ'D.
6	2" STEEL PIPE, SCH. 40	ASTM - A106 GRADE "B"	AS REQ'D.
7	M" STEEL FLANGE, 150 LB., FLAT OR RAISED FACE (TO MATCH VALVE FLANGE) (SEE NOTE 6)	ANSI B16.5	1
8	2" x 2" x 2" STEEL TEE, SCH. 40	ANSI B16.9	2
9	M" x 1" THREADOLET (SEE NOTE 5)	ANSI B16.9	1
10	1" STEEL SQUARE HEAD PLUG		1
11	6" SHORT RADIUS 90° ELBOW, SCH. 40	ANSI B16.28	2
12	2" x 1/2" THREADOLET		6
13	M" x 1/2" THREADOLET		3
14	1/2" STEEL SQUARE HEAD PLUG	ANSI B16.4	9
15	PIPE SUPPORT	EO-7043	AS REQ'D.
16	FLANGE INSULATING KIT (TO MATCH VALVE FLANGE)		1
17	2" STEEL FLANGE, RAISED FACE, 150 LB.		24
18	M" ROTARY - TURBINE METER		1
19	M" STEEL FLANGE, FLAT FACE 150 LB.	ANSI B16.5	4
20	M" STEEL PIPE, SCH. 40	ASTM - A106 GRADE "B"	AS REQ'D.
21	M" x 2" STEEL REDUCER	ANSI B16.9	2
22	2" x 1/16" 150 LB. FULL FACE GASKET (SEE NOTE 4)		2
23	2" x 1/16" 150 LB. RING GASKET (SEE NOTE 4)		26
24	BAKELITE, NEOPRENE, OR EQUIV. INSULATING MAT'L (SEE NOTE 8)		AS REQ'D.

- NOTES:**
- ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER EXCEPT FOR THE FILTERS AND REGULATORS WHICH ARE FURNISHED BY THE COMPANY AND INSTALLED BY THE CUSTOMER, AND THE METER WHICH IS FURNISHED AND INSTALLED BY THE COMPANY.
 - DO NOT INCLUDE REGULATORS OR METER IN PRESSURE TEST. USE SPOOL PIECES SHOWN ON DRAWING.
 - IF THE INSTALLATION CANNOT BE MADE AS SHOWN, CONTACT GAS MEASUREMENT.
 - ALL GASKET MATERIAL SHALL BE GARLOCK 3000 (1/16" THICK).
 - ALL THREADOLETS MUST BE FULL BORE, FILLET WELDED AND PLUGGED. DO NOT WELD WITH METERS INSTALLED.
 - THE LETTER V REPRESENTS THE SERVICE HEAD VALVE FLANGE SIZE, THE LETTER M REPRESENTS THE METER FLANGE SIZE, AND THE LETTER B REPRESENTS THE METER FLANGE TO FLANGE DIMENSION. SEE TABLE 1 FOR EXACT SIZES. IF TABLE 1 IS NOT COMPLETED, CONTACT THE ASSIGNED ENERGY SERVICE REPRESENTATIVE.
 - TABLE 1 MUST BE COMPLETED BY ASSIGNED ENERGY SERVICE REPRESENTATIVE BEFORE PROVIDING TO CONTRACTOR.
 - INSULATING MATERIAL MUST BE INSTALLED BETWEEN THE PIPE SUPPORTS AND THE PIPE, SO THAT THE PIPE NEVER MAKES CONTACT WITH THE PIPE SUPPORT.
 - A PRESSURE TEST MUST BE CONDUCTED AT 200 PSIG.
 - ALL WELDED PIPING MUST BE BUTT WELDED. ALL BUTT WELDS SHALL BE RADIOGRAPHED.
 - PIPE SUPPORT OR ANY BRACING SHALL NOT BE WELDED TO METER/DISTRIBUTION PIPING.
 - IF A DOMESTIC REGULATOR METER SET IS REQUIRED, IT SHALL BE INSTALLED IMMEDIATELY AFTER SERVICE HEAD VALVE WITH AN ISOLATION VALVE.
 - REFER TO "REQUIREMENTS FOR GAS SERVICE INSTALLATION" BOOK FOR FURTHER INFORMATION.
 - FOR WESTCHESTER, CUSTOMER'S CONTRACTOR SHALL INSTALL SERVICE HEAD VALVE WHERE APPLICABLE.
 - ALL OUTDOOR PIPING SHALL BE PAINTED WITH SUITABLE NON-LEAD OUTDOOR PAINT FOR USE ON METAL SURFACES.
 - REFER TO EO-17118 - "REGULATOR VENT INSTALLATION" FOR VENT PIPE INSTALLATION, CAPS AND TERMINUS LOCATION REQUIREMENTS. SINCE THESE REGULATORS DO NOT UTILIZE FULL CAPACITY RELIEF, VENT PIPING SHALL BE 2" IN DIAMETER.
 - EACH REGULATOR SHALL BE SEPARATELY VENTED.
 - FOR INSIDE REGULATOR INSTALLATIONS, THE CUSTOMER SHALL INSTALL 2" VENT PIPE FROM OUTDOOR VENT CAP ALONG INSIDE WALL TO A POINT WITHIN 2' OF EACH REGULATOR RUN. COMPANY TO MAKE FINAL CONNECTION TO VENT LINE.
 - FOR ANY DOWNSTREAM PIPING BELOW GRADE REFER TO SPEC G-8205.
 - OUTDOOR METER SETS SHALL BE PROTECTED BY A 6 FOOT HIGH LOCKABLE FENCE, CHAIN-LINK OR EQUIVALENT. THE FENCE SHALL BE EQUIPPED WITH A DOUBLE HASP LOCK TO ALLOW ACCESS BY CON-EDISON AND THE CUSTOMER.

**INSTALLATION OF LINE PRESSURE
3" TO 8" TURBINE/ROTARY METERS WITH
PARALLEL 2" REGULATORS INDOORS AND
OUTDOORS 15,000 CFH TO 150,000 CFH**

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS ENGINEERING DEPT.

DATE 4/16/07	DWG. NO. 361571
LAST REV. 5/22/12	REV. 3

METERING SPECIFICATIONS AND PROCEDURES VOLUME #3 GAS SERVICE BOOK

Note: For best print results, print 11" x 17".