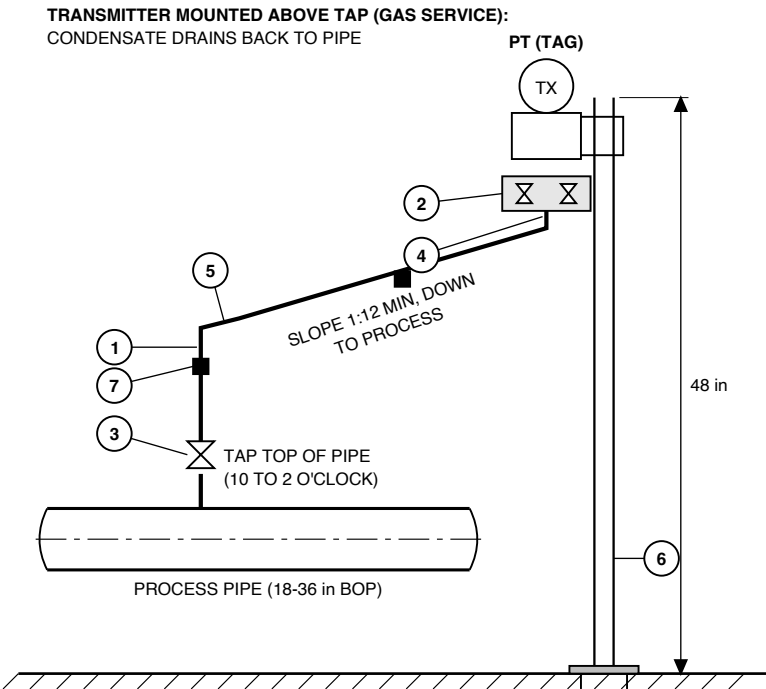


HU-P1 PRESSURE TRANSMITTER, GAS SERVICE



BILL OF MATERIALS

NO	CODE	DESCRIPTION (PER INSTALLATION)	QTY	UNIT
1	TUB-050	TUBING 1/2 OD x 0.049 WALL, 316 SS SMLS	12	ft
2	VLV-NDL-2V	2-VALVE MANIFOLD, 316 SS, 6000 psi	1	ea
3	VLV-ROOT	ROOT VALVE NPS 3/4 CL 600 (PIPING)	1	ea
4	FTG-CONN	TUBE CONNECTOR 1/2 OD x 1/2 NPT, 316 SS	3	ea
5	FTG-ELB	TUBE ELBOW 1/2 OD, 316 SS	1	ea
6	SUP-STD	STAND 2 in SCH 40 x 48 in, BASE PLATE	1	ea
7	SUP-CLMP	TUBE CLAMP / CHANNEL SET	3	ea

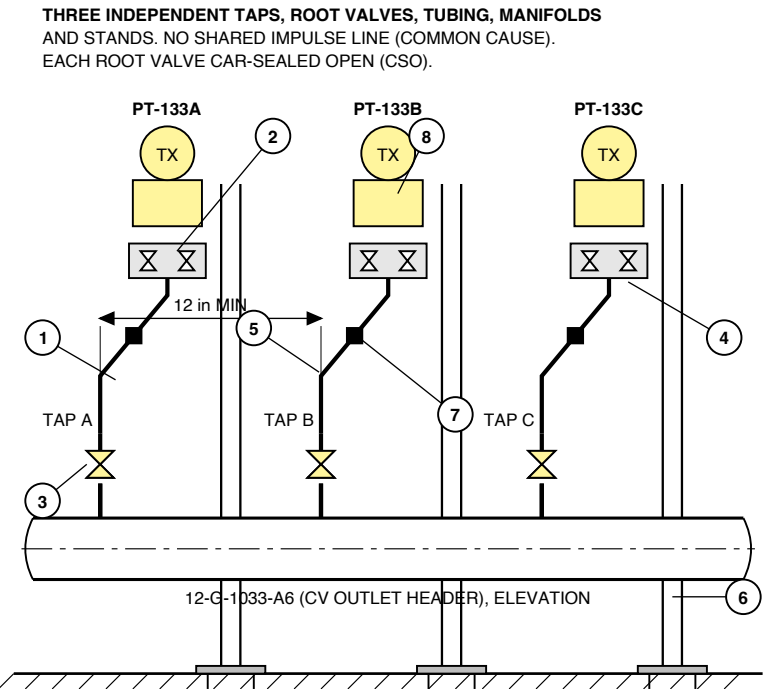
APPLIES TO (7):

PT-101, PT-102A, PT-111, PT-121, PT-164, PT-134, PT-172

NOTES:

XMTR ABOVE TAP; TUBING SLOPED 1:12 MIN
BACK TO PROCESS. MANIFOLD CLOSE-
COUPLED TO XMTR.

HU-P2 SIS PRESSURE TRANSMITTERS (2oo3)



BILL OF MATERIALS

NO	CODE	DESCRIPTION (PER INSTALLATION)	QTY	UNIT
1	TUB-050	TUBING 1/2 OD x 0.049 WALL, 316 SS SMLS	15	ft
2	VLV-NDL-2V	2-VALVE MANIFOLD, 316 SS, 6000 psi	1	ea
3	VLV-ROOT	ROOT VALVE NPS 3/4 CL 600 (PIPING)	1	ea
4	FTG-CONN	TUBE CONNECTOR 1/2 OD x 1/2 NPT, 316 SS	3	ea
5	FTG-ELB	TUBE ELBOW 1/2 OD, 316 SS	2	ea
6	SUP-STD	STAND 2 in SCH 40 x 48 in, BASE PLATE	1	ea
7	SUP-CLMP	TUBE CLAMP / CHANNEL SET	3	ea
8	TAG-SIS	SIS ID TAG, YELLOW, STAINLESS	1	ea

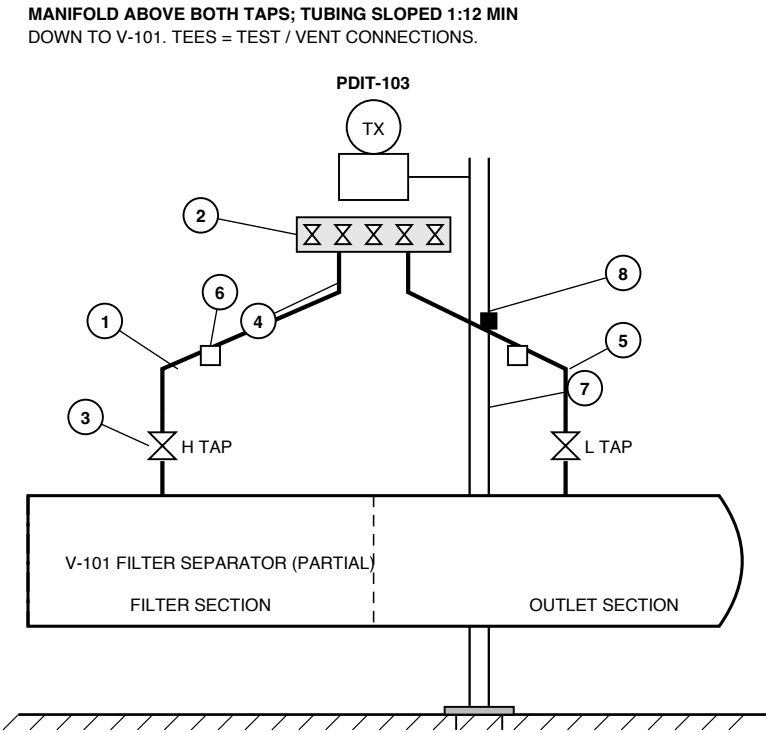
APPLIES TO (3):

PT-133A, PT-133B, PT-133C

NOTES:

ONE TAP, ROOT VALVE, TUBE RUN AND
STAND PER XMTR. TAPS 12 in APART.
ROOT VALVES CSO; YELLOW SIS TAGS.

HU-DP DIFFERENTIAL PRESSURE (PDIT-103)



BILL OF MATERIALS

NO	CODE	DESCRIPTION (PER INSTALLATION)	QTY	UNIT
1	TUB-050	TUBING 1/2 OD x 0.049 WALL, 316 SS SMLS	20	ft
2	VLV-5V	5-VALVE MANIFOLD, 316 SS, 6000 psi	1	ea
3	VLV-ROOT	ROOT VALVE NPS 3/4 CL 600 (PIPING)	2	ea
4	FTG-CONN	TUBE CONNECTOR 1/2 OD x 1/2 NPT, 316 SS	6	ea
5	FTG-ELB	TUBE ELBOW 1/2 OD, 316 SS	2	ea
6	FTG-TEE	TUBE TEE 1/2 OD, 316 SS	2	ea
7	SUP-STD	STAND 2 in SCH 40 x 48 in, BASE PLATE	1	ea
8	SUP-CLMP	TUBE CLAMP / CHANNEL SET	4	ea

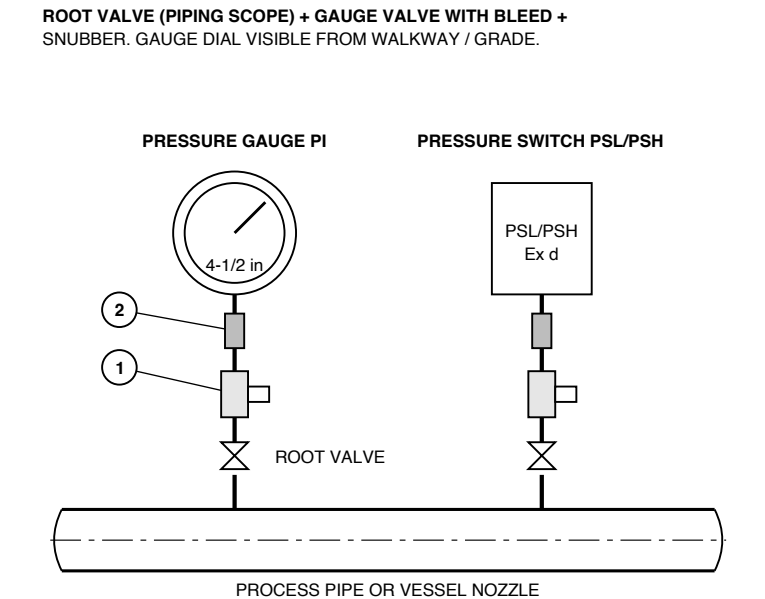
APPLIES TO (1):

PDIT-103

NOTES:

5-VALVE MANIFOLD ABOVE TAPS.
EQUALIZE BEFORE ISOLATING.
PDI GAUGES: SAME ARRANGEMENT.

HU-G LOCAL GAUGE / PRESSURE SWITCH



BILL OF MATERIALS

NO	CODE	DESCRIPTION (PER INSTALLATION)	QTY	UNIT
1	VLV-GV	GAUGE VALVE, BLOCK + BLEED, 1/2 NPT, SS	1	ea
2	FTG-SNB	SNUBBER / SIPHON 1/2 NPT, 316 SS	1	ea

APPLIES TO (14):

PI-101, PI-102, PDI-103A, PI-103, PI-115A, PI-113, PI-156A,
PSL-164A, PSH-164B, PI-161A, PI-162A, PI-138, PI-137, PI-174

NOTES:

GAUGE 4-1/2 in, LIQUID FILLED,
SAFETY PATTERN (SOLID FRONT,
BLOW-OUT BACK), ASME B40.100.

NOTES / REFERENCES

- TUBING 1/2 in OD 316 SS, SUPPORTED AT 5 ft MAX SPACING; MIN BEND RADIUS 3 x OD.
 - HEAT TRACING NOT REQUIRED: DRY PIPELINE-QUALITY GAS (BASIS 5.2, 7 lb/MMscf MAX).
 - ALL INSTRUMENTS CARRY STAINLESS TAG PLATES; SIS DEVICES YELLOW TAG.
 - ROOT VALVES, NOZZLES AND THERMOWELL CONNECTIONS BY PIPING / VESSEL VENDOR.
 - ALL ITEMS SHOWN ARE TYPICAL; QTY IN BOM ARE PER INSTALLATION (x APPLIES-TO COUNT).
 - LEAK TEST TUBING AT 1.1 x MAX OP. PRESSURE WITH NITROGEN BEFORE COMMISSIONING.
- REF: INS-DS-001, DS-003, DS-012

REVISIONS

REV	DATE	DESCRIPTION	BY	CHK	APP
A	2026-09-29	ISSUED FOR REVIEW (IFR)			

PRELIMINARY - ISSUED FOR REVIEW - NOT FOR CONSTRUCTION

ENGINEER OF RECORD SEAL

NOT SEALED
PRELIMINARY

PE NO. _____

PROJECT

120 MMSCFD RECEIPT INTO _____
COUNTY, _____
DISCIPLINE: INSTRUMENTATION
SCALE: NTS

INSTRUMENT HOOK-UP TYPICALS

PRESSURE, SIS PRESSURE, DP, GAUGES
DRAWN: _____ CHECKED: _____ APPROVED: _____
DWG NO. **INS-DWG-004**
SHEET 1 OF 2 REV A