



## **DRY FUEL SYSTEM INSTALLATION RECOMMENDATIONS**

The gas system design varies based on different engine families and has been divided into sub-sections based on the kW ratings of the generator. These recommendations are based on the history of successful installation of Gillette Generators and are in-line with the industry standards.

For standby generators, the dry fuel line should be dedicated and not shared with any other equipment and/or facility.

### **25kW - 300kW**

- 2 PSI gas meter recommended.
- Step down regulator (supplied by others) located as close to the engine as possible.
- Latest Fuel Recommendations (consumption and WC) are in the spec sheet for each specific model.

### **350kW – 500 kW**

- 5 PSI gas meter recommended.
- Step-down regulator (supplied by others) installed at the front of the radiator discharge chute as shown in Illustration 2 or Illustration 2a.
- Maintain equal distance from the step-down (secondary) regulator to each side of the engine.
- Reduce number of bends from the step-down regulator to the generator.
- The pipe diameter from the secondary regulator should be consistent with the inlet flange diameter.
- Latest Fuel Recommendations (consumption and WC) are in the spec sheet for each specific model.
- SP-2500P and SP-3000P requires 1 regulator (Refer Illustration 1).

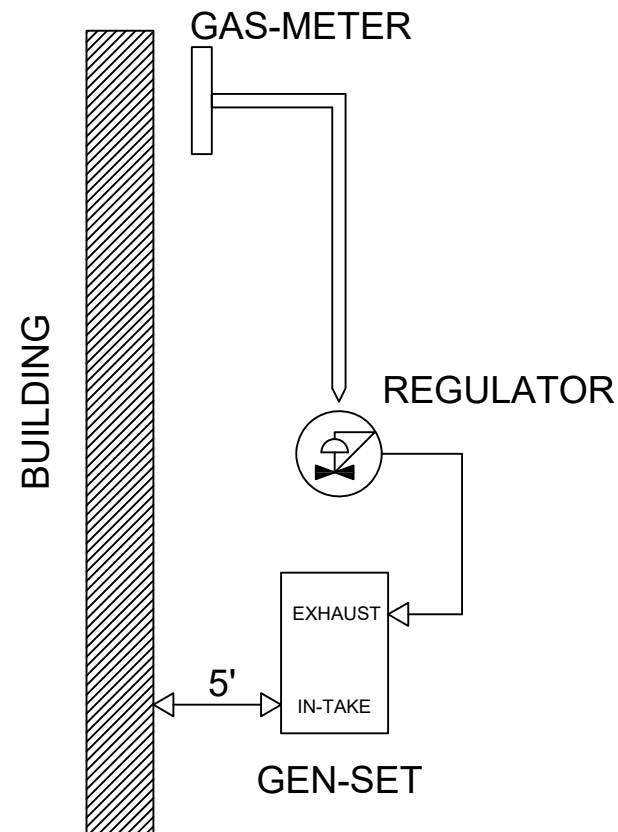
### **650kW – 1MW**

- 10 PSI gas meter recommended.
- Step-down regulator (supplied by others) installed at the front of the radiator discharge chute as shown in Illustration 2 or Illustration 2a.
- Maintain equal distance from the step-down (secondary) regulatory to each side of the engine.
- Reduce number of bends from the step-down regulator to the generator.
- The pipe diameter from the secondary regulator should be consistent with the inlet flange diameter.
- Latest Fuel Recommendations (consumption and WC) are in the spec sheet for each specific model.

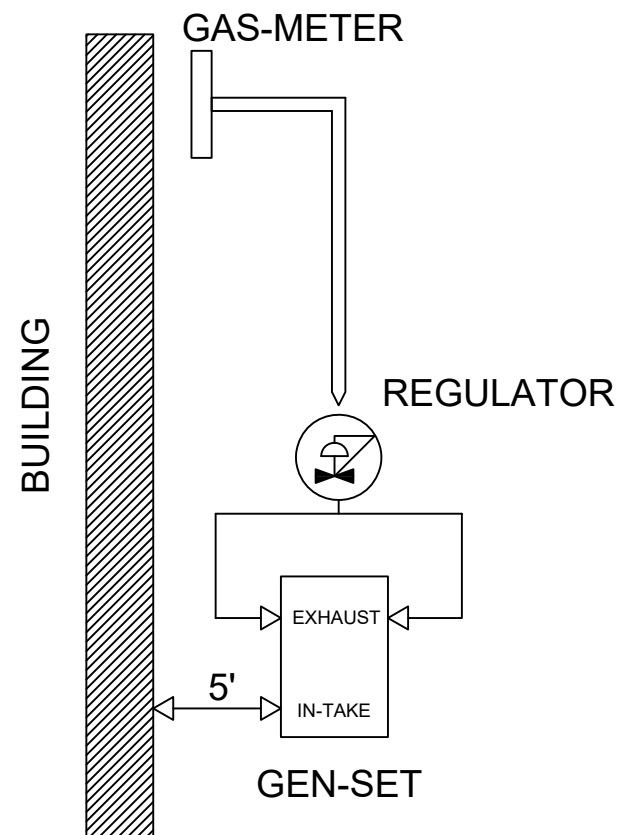
TOLERANCES		
DECIMALS	FRACTIONS	ANGLES
± .031	± 1/32	± 1/2°
UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS & BREAK ALL SHARP EDGES		
ALL ANGLES @ 90°, UNLESS OTHERWISE SPECIFIED		
TIGHT CLOSED CORNERS, WITH NO GAPS		

# RECOMMENDED FUEL SUPPLY SET-UP

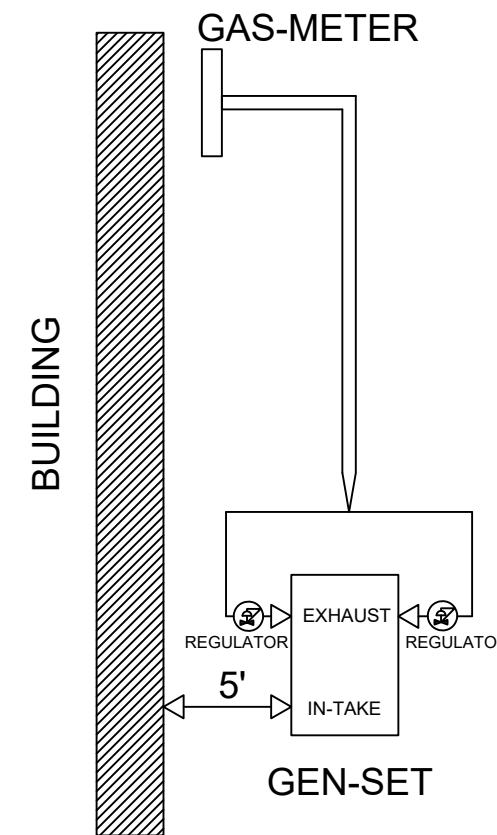
## ALTERNATIVE SET-UP USING 2 REGULATORS



25kW - 300kW  
ILLUSTRATION 1



350kW - 1,000kW  
ILLUSTRATION 2



350kW - 1,000kW  
ILLUSTRATION 2a

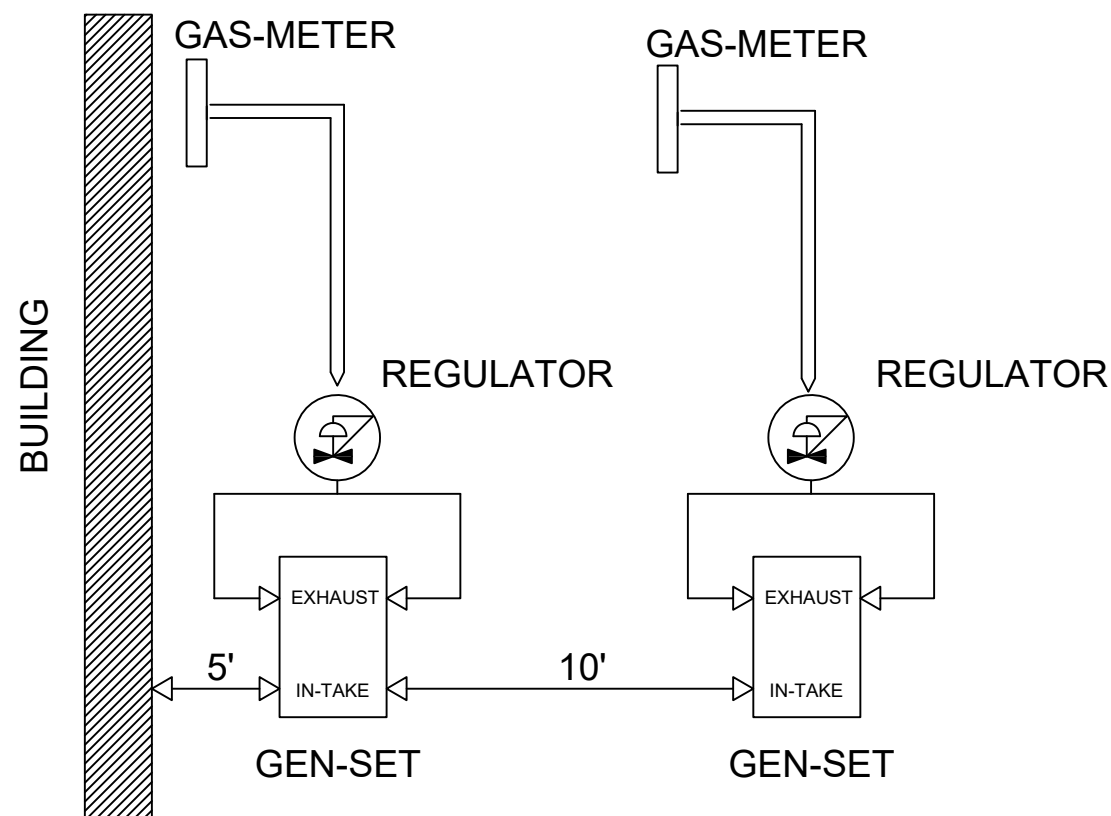
- NOTES:
- EQUAL DISTRIBUTION OF THE GAS FROM THE REGULATOR IS VERY IMPORTANT FOR A SUCCESSFUL FULL LOAD OPERATION.
  - PIPE DIAMETERS & PIPE LENGTH TO THE GENERATOR SHOULD ALLOW TO MEET THE FUEL REQUIREMENTS OF THE ENGINE; REFER TO GEN SPECIFIC SPEC SHEET.
  - PIPE DIAMETER, PIPE LENGTH AND GAS METER SIZING FOR FULL LOAD OPERATION TO BE PERFORMED BY UTILITY/GAS CONTRACTOR/END USER.
  - THE NUMBER OF 90° BENDS FROM THE GAS METER TO THE GENERATOR SHOULD BE MINIMIZED.
  - SP-2500P & SP-3000P REQUIRES SINGLE GAS INLET (ILL-1).

REVISION LEVEL	DATE	DESCRIPTION	GILLETTE GENERATORS, INC. 1340 WADE DR., ELKHART, IN 46514 (574) 264-9639			
			DESCRIPTION: DRY FUEL ENGINES - FUEL SUPPLY RECOMMENDATIONS			REV 0
			DATE: 02-25-26	PT. NO:	SCALE: 1:1	CAD_NO.: CAD#
			DR.BY: PD	ENG. DB	PG.NO. 1 OF 1	DRAWING NO.:

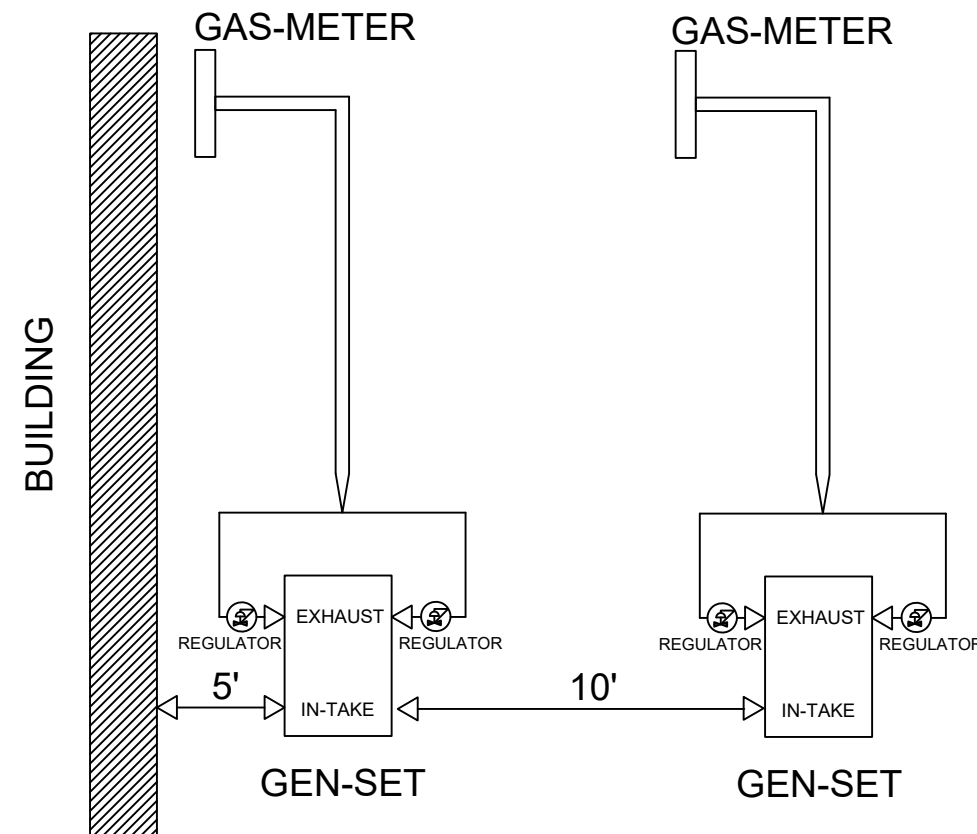
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DECIMALS	FRACTIONS	ANGLES
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REMOVE ALL BURRS & BREAK ALL SHARP EDGES		
ALL ANGLES @ 90°, UNLESS OTHERWISE SPECIFIED		
TIGHT CLOSED CORNERS, WITH NO GAPS		

# RECOMMENDED FUEL SUPPLY SET-UP (Parallel Units)

## ALTERNATIVE SET-UP USING 2 REGULATORS



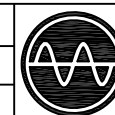
GENERATORS IN PARALLEL  
ILLUSTRATION 3



GENERATORS IN PARALLEL  
ILLUSTRATION 3a

- NOTES:
1. EQUAL DISTRIBUTION OF THE GAS FROM THE REGULATOR IS VERY IMPORTANT FOR A SUCCESSFUL FULL LOAD OPERATION.
  2. DRY FUEL SUPPLY LINE SHOULD BE DEDICATED AND NOT SHARED WITH ANY OTHER EQUIPMENT AND/OR FACILITY
  3. PIPE DIAMETERS & PIPE LENGTH TO THE GENERATOR SHOULD ALLOW TO MEET THE FUEL REQUIREMENTS OF THE ENGINE; REFER TO GEN SPECIFIC SPEC SHEET.
  4. PIPE DIAMETER, PIPE LENGTH AND GAS METER SIZING FOR FULL LOAD OPERATION TO BE PERFORMED BY UTILITY/GAS CONTRACTOR/END USER.
  5. THE NUMBER OF 90° BENDS FROM THE GAS METER TO THE GENERATOR SHOULD BE MINIMIZED.
  6. SP-2500P & SP-3000P REQUIRES SINGLE GAS INLET (ILL-1).

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