

ERRATA SHEET FOR ANSI/ASHRAE STANDARD 158.1-2012
Methods of Testing Capacity of refrigerant Solenoid Valves

October 15, 2013

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 158.1-2012. The first printing is identified on the outside back cover as “Product code: 86484 2/12”.

Page Erratum

- 3 Figure 6-1 Water flow test system schematic.** Replace the current figure with the one shown below.

- 5 Figure 7-1 Airflow test system schematic.** Replace the current figure with the one shown below.

- 8 Figure A-1 Example of a data sheet for water flow testing.** Replace the current figure with the one shown below.

- 9 Figure A-2 Example of a linear plot of incompressible flow data.** Replace the current figure with the one shown below.

- 10 Figure A-3 Example of a data sheet for gas flow testing.** Replace the current figure with the one shown below.

- 11 Figure A-4 Example of a linear plot of acoustic ration versus compressible flow coefficient.** Replace the current figure with the one shown below.

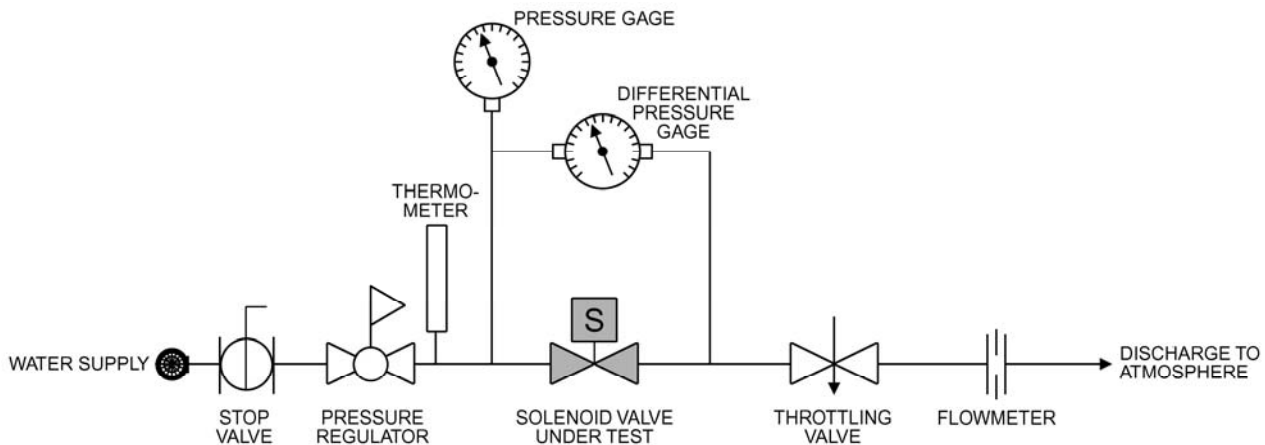


Figure 6-1 Water flow test system schematic.

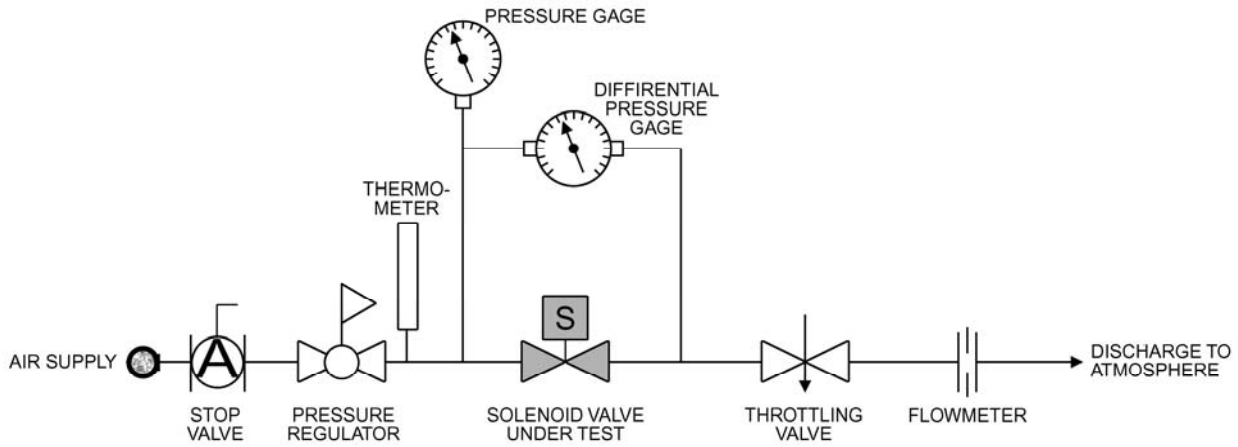


Figure 7-1 Airflow test system schematic.

DATA SHEET

SOLENOID VALVE WATER FLOW CAPACITY

VALVE UNDER TEST _____ **DATE** _____
MANUFACTURER _____ **ADDRESS** _____
MODEL _____ **SIZE** _____ **TYPE** _____ **SER. NO.** _____
CONNECTIONS: TYPE _____ **SIZE** _____ **REMARKS** _____

LINE NO.	INLET CONDITIONS			ΔP^*	$(\rho \Delta P)^{1/2}$	FLOW RATE*	REMARKS
	PRES.	TEMP.	ρ^*				
1				2			
2				4			
3				6			
4				8			
5				10			
6				8			
7				6			
8				4			
9				2			

OBSERVER _____

**NOTE: Dimensions must be consistent and may be Inch-Pound (I-P) or Standard International Metric (SI). Flow rates are typically reported as pounds per minute (lb/min) in the I-P system and kilograms per second (kg/s) in the SI system of units.*

Figure A-1 Example of a data sheet for water flow testing.

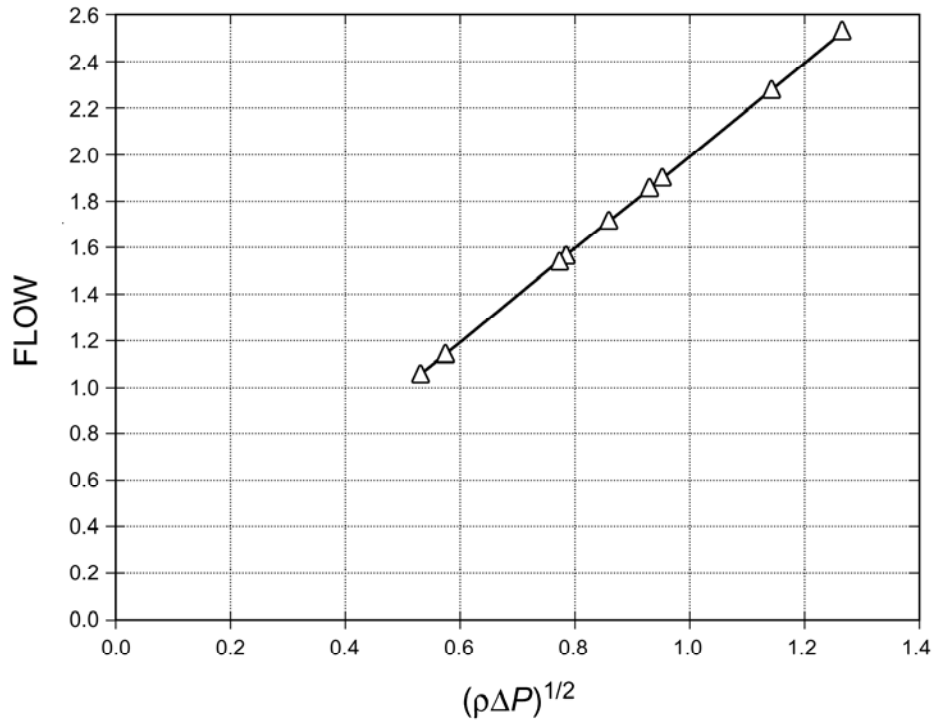


Figure A-2 Example of a linear plot of incompressible flow data.

DATA SHEET
SOLENOID VALVE AIRFLOW CAPACITY

VALVE UNDER TEST _____ DATE _____

MANUFACTURER _____ ADDRESS _____

MODEL _____ SIZE _____ TYPE _____ SER. NO. _____

CONNECTIONS: TYPE _____ SIZE _____ REMARKS _____

LINE NO.	INLET CONDITIONS			ΔP^*	$(\rho\Delta P)^{1/2}$	A_R	FLOW RATE*		C^*	REMARKS
	PRES.	TEMP.	ρ^*				Increas- ing ΔP	Decreas- ing ΔP		
1	60			2						
2	60			3						
3	60			4						
4	60			5						
5	60			6		0.071				
6	60			12		0.143				
7	60			18		0.214				
8	60			24		0.286				
9	60			28.4		0.338				

OBSERVER

**NOTE: Dimensions must be consistent and may be Inch-Pound (I-P) or Standard International Metric (SI). Flow rates are typically reported as pounds per minute (lb/min) in the I-P system and kilograms per second (kg/s) in the SI system of units.*

Figure A-3 Example of a data sheet for gas flow testing.

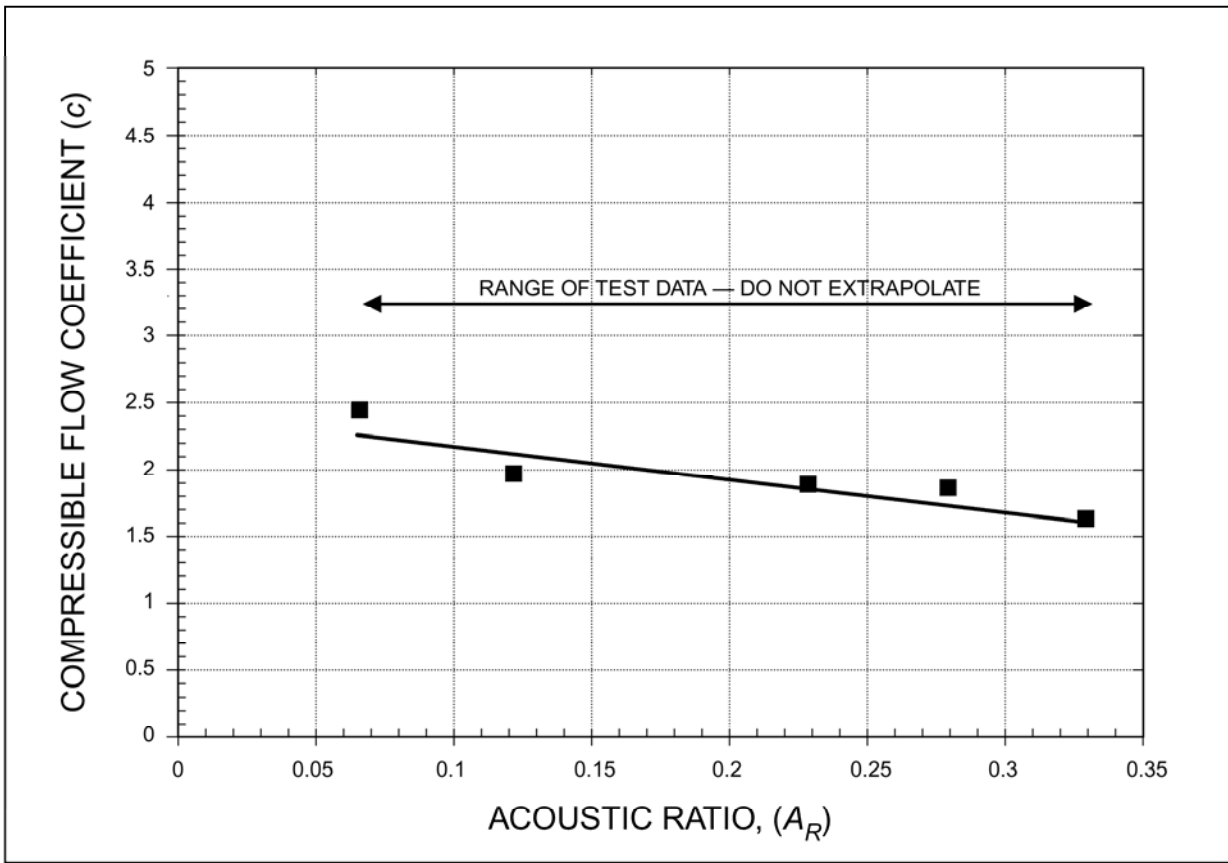


Figure A-4 Example of a linear plot of acoustic ration versus compressible flow coefficient.