

Indicator Identification

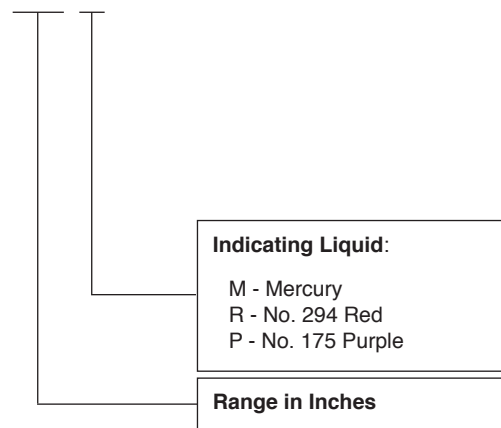
The label on the front of the indicator case has an identification number that specifies the indicator model, case construction, range, and type of indicating liquid used (Detail 1).

If scales have been factory installed, tank designation will appear on the scale to aid in proper location of indicator (Detail 2).

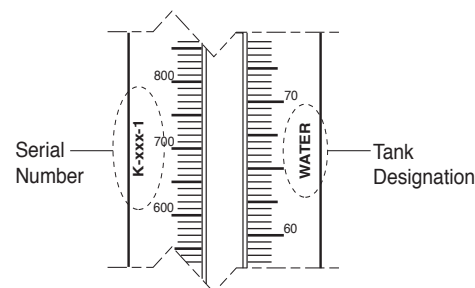
If 2 or more indicators are to be installed, be sure to identify the individual indicators, as outlined above. Determine the proper location for each indicator by referring to the tank designation printed on the scale (units with factory installed scales only).



5990S - xx x



Detail 1 - Model Number Designation



Detail 2 - Indicator Scale

Installation

CAUTION! Contains Liquid

This item contains a fluid fill as the indicating medium. **DO NOT REMOVE** seal plugs at the top of the case until the indicator has been mounted in a vertical position.



¡CUIDADO! Contiene Líquido

The KING-GAGE® Indicator contains indication liquid. **Do not remove** the sealing plugs at the top of the case until the indicator has been permanently mounted in a vertical position.

Note: The correct amount of indication liquid was placed in the indicator at fabrication. Trapped air may prevent liquid from showing in the glass tube until the sealing plugs have been removed.

- A-1. Mount the indicator rigidly in a vertical position. See Mounting Dimensions and refer to note D-1. KING-GAGE Indicators should be mounted so as to ensure visibility of display and accessibility for maintenance.
- A-2. Remove front cover and discard any packing material.
- A-3. Remove and save metal seal plug from center connection. Remove white vent plug from left hand connection and save for final installation. Remove and discard well tube plug (Detail 3).
- A-4. Parts bag includes overflow check valve to complete the installation (Detail 4).

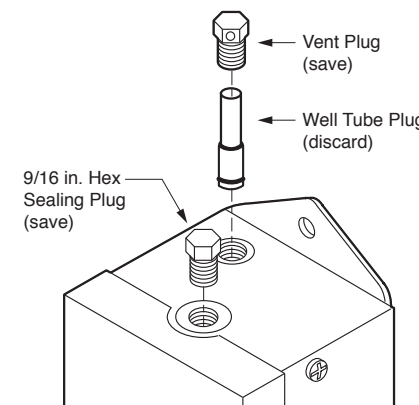
Overflow Check Valve

This check valve will prevent fluid fill from escaping if the indicator is overpressured.

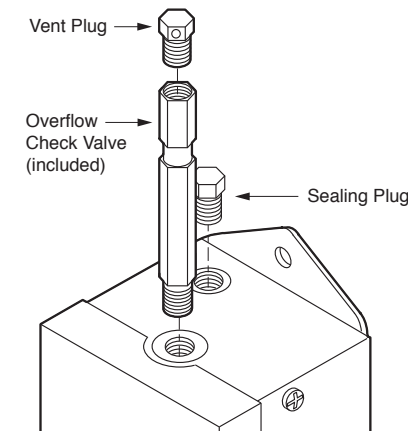
- B-1. Thread the vent plug into the top of the check valve
- B-2. Install this assembly into the front center connection (Detail 4).

Dimensions by Indicator Range:

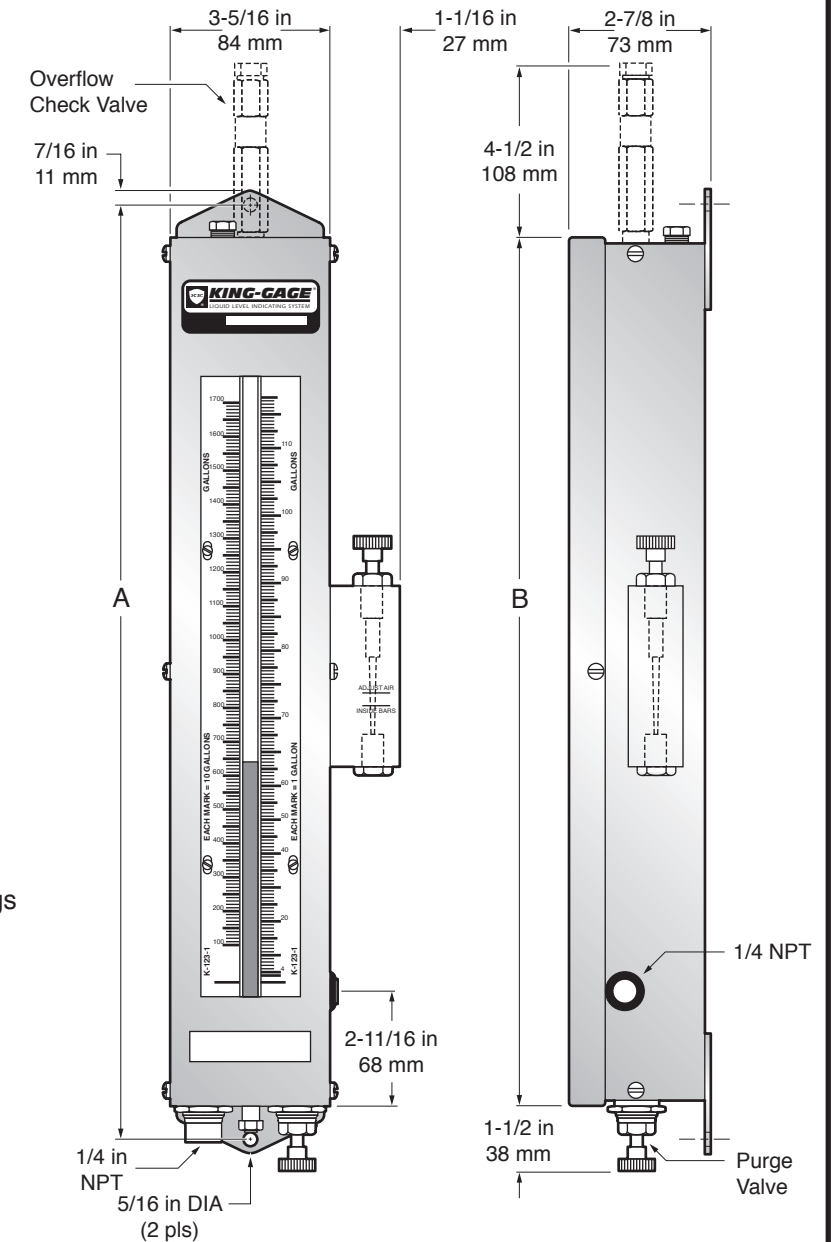
Range	Dim. "A"	Dim. "B"
20	26-1/4	25-3/8
35	42-1/4	41-3/8
43	50-1/4	49-3/8
51	58-1/4	57-3/8
66	74-1/4	73-3/8
81	90-1/4	89-3/8



Detail 3 - Removing Sealing (Shipping) Plugs



Detail 4 - Overflow Check Valve and Fitting Installation



INSTALLATION INSTRUCTIONS

KING-GAGE® MODEL 5990 INDICATOR PNEUMATIC COLUMN DISPLAY

		DATE	1/22/10
C	1/10	Caution! Contains Liquid	
B	5/09	Revised top connection block	DRAWN BY D. Kennedy
A	3/97	Released	APPROVED



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DWG. NO.
K-1000-48

SHEET **1** OF **2** REV. **C**

Indicator Scales

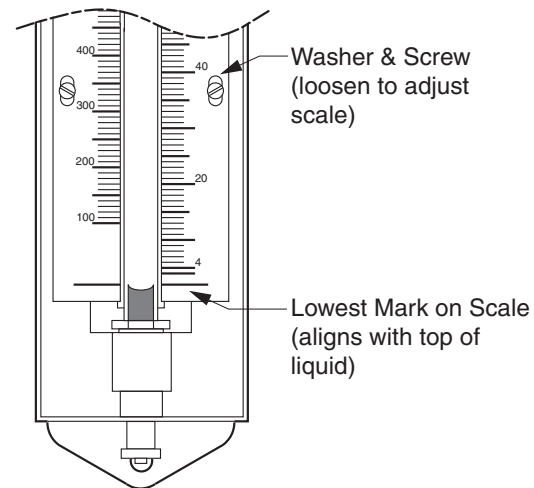
Alignment Check: If scales (or calibration strip) have been factory-installed, refer to step 4 below. Check alignment only after indicator has been permanently installed. If scales have not been installed, proceed to Installation, below.

Caution: There must be no signal pressure to the indicator during either alignment or installation of scales.

Disconnect signal tubing at the indicator.

Installation: The scales are furnished in pairs, one for each side of the indicating tube. Serial numbers on scales should correspond to each other (Detail 2). Only after completing the installation of the indicator should the scales be installed.

- C-1. Remove front cover.
- C-2. Remove screws and washers from scale support brackets.
- C-3. Place the scales on scale support brackets. Replace washers and screws, aligning appropriate holes. Do not tighten.
- C-4. Align the lowest mark on the scale to coincide with level of liquid in glass tube. This is very important! Any variation will result in false readings (Detail 5).
- C-5. Tighten scale support screws and replace front cover.



Detail 5 - Indicator Scale and Adjustment

Signal Tube Installation

The signal pressure tube conveys the tank signal pressure to the indicator. The tubing may be 1/4 in. O.D. or smaller (either copper, polyflo, or nylon).

D-1. Consideration should be given when running tubing so it is free and clear from excessively sharp bends for its entire length. Care should be taken to protect the tubing from possible abuse or damage.

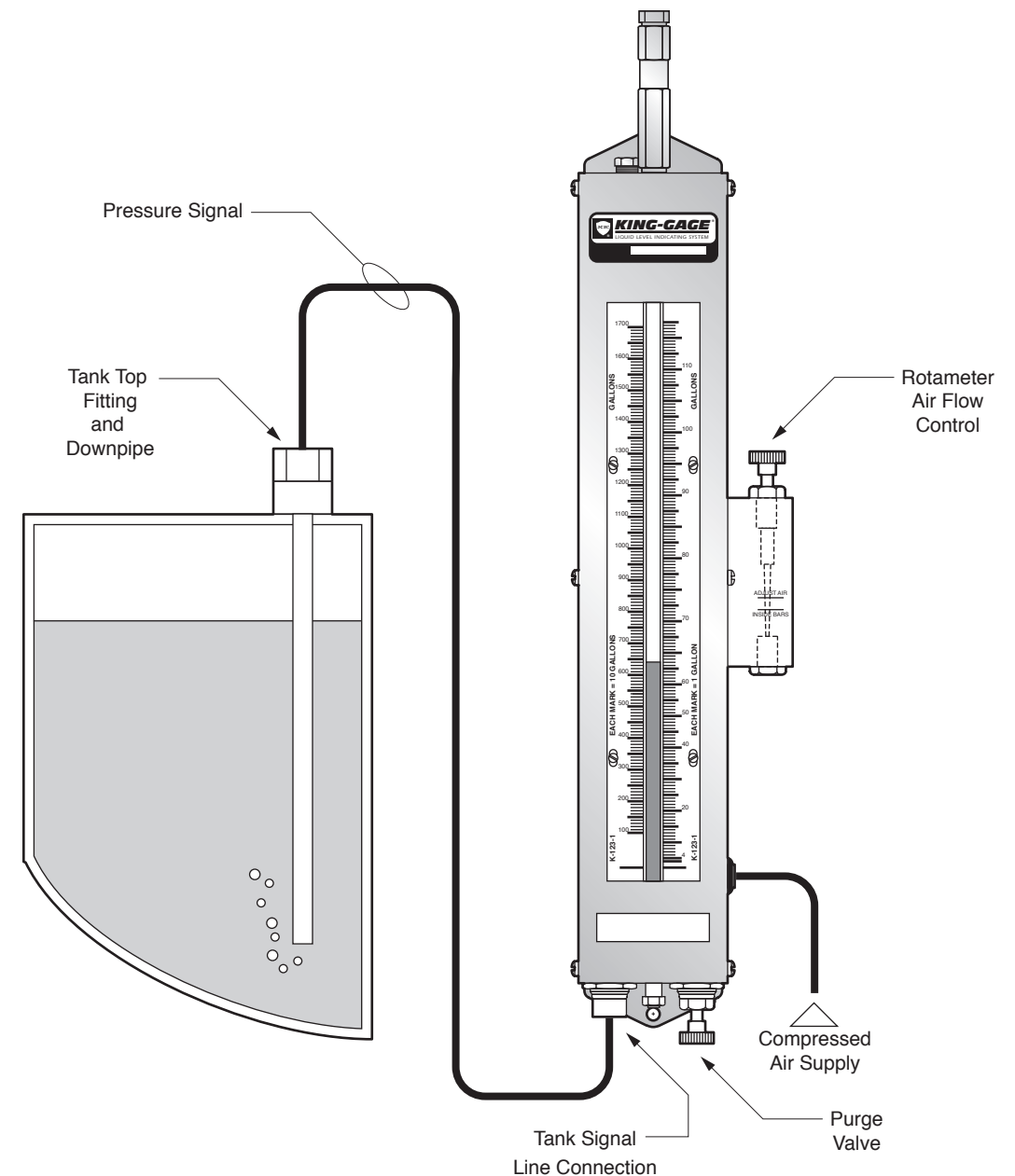
Note: Tubing run to indicator must be a direct line! Do not "tee" into the system for any equipment which consumes air, or is not bubble tight. This will cause indicator to read incorrectly.

D-2. Install tube fitting into tank signal connection.

Compressed Air Supply

Compressed air supply must be clean, dry and oil-free to ensure trouble free operation. Under normal operating conditions, supply pressure should be 55-60 psig (380-420 kPa).

- E-1. Install supply line at the Compressed Air Inlet connection of the indicator.
- E-2. Adjust the rotameter control so that the small internal float rests between the horizontal marks.



INSTALLATION INSTRUCTIONS

KING-GAGE®

MODEL 5990 INDICATOR

PNEUMATIC COLUMN DISPLAY

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SHEET 2 OF 2		C