

92 SERIES



- External mounting at tank
- Pneumatic output, or electronic (4 mA to 20 mA) output when paired with KING-GAGE 860 Series Sensor Control or 868 Series D/P Purge Control
- Unaffected by foam or vapor
- Safe for hazardous environments
- Virtually free from long term drift, hysteresis and temperature sensitivity unlike strain measurements (including load cells) since mechanical deflection of the diaphragm is not directly measured
- The compensating pneumatic balance pressure which effectively isolates the sensor is converted to a proportional 4 mAdc to 20 mAdc signal or can be directly output to a suitable gauge

APPLICATIONS

- Chemical processing
- Power generation
- Pharmaceutical
- Water & wastewater
- Pulp & paper
- Marine

SPECIFICATIONS

Sensitivity	Better than .001 psi ($\pm .02 \text{ inH}_2\text{O}/.508 \text{ mm water}$)
Repeatability	Better than $\pm .002 \text{ psi} (\pm .05 \text{ inH}_2\text{O}/1.27 \text{ mm water})$
Primary accuracy	$\pm .007 \text{ psi} (\pm 0.2 \text{ inH}_2\text{O}/.508 \text{ mm water})$
Temperature range	30 °F to 300 °F (0 °C to 149 °C)
Pressure range	Sensor is a 1:1 pneumatic force balance diaphragm capable of repeating hydrostatic pressure as an equivalent pneumatic output. Functional pressure limit is 130 psi (or 3598 inches @ 1.00 specific gravity) determined by supply pressure (35–150 psi) less 20 psi.
Maximum depth measurement	1937 inH ₂ O (49.0 m water)
Wetted materials	FKM O-ring, Titanium diaphragm, commercially pure. Optional diaphragm materials: Silicone rubber Mounting flange options: 316L Stainless, PVC, brewery special flange
Air Consumption	Total air consumption of sensor package (including sensor control) is less than 10 CFH or 0.16 scfm
Compressed air supply requirements	35 psig to 150 psig (2.4–10.3 bar); clean, dry air (or inert gas)

ORDERING INFORMATION			
SERIES	92		
FLANGE SIZES*	2 2" Flange	3 3" Flange	4 4" Flange
FLANGE MATERIALS	71 316 Stainless Steel	91 PVC	
FITTINGS	1 None, 1/4" NPT	3 Polyflo; (4) 1/4" tube	4 Swagelok; (4) 1/4" tube (compatible with copper or poly tubing)

NOTES: 3-tube cable (15 ft./4.5 m) included with shipment.

* Flanges have a titanium diaphragm, silicone rubber diaphragm configuration available, consult factory.

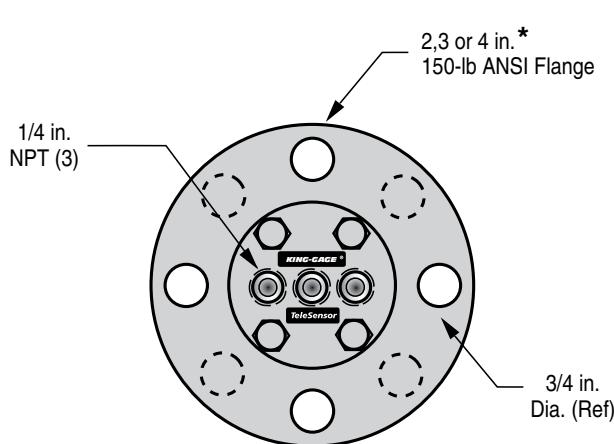
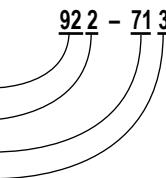
4" flange has a 8 bolt circle. 2" and 3" flanges have a 4 bolt circle.

All flanges are 150 lb. ANSI.

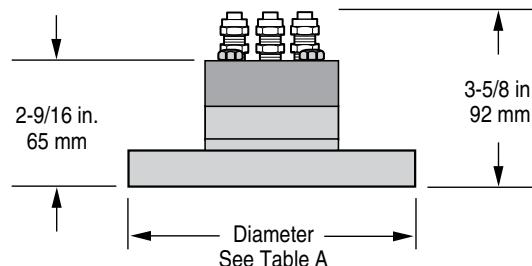
Special 3" 304 Stainless Steel brewery flange is available, consult factory.

EXAMPLE

Series 92 Series
 Flange size 2"
 Flange material 316 Stainless Steel
 Fitting Polyflo; (4) 1/4" tube



* 4 in. Flange has 8 bolt circle,
 2 and 3 in. Flange have 4 bolt circle.



TeleSensor w/ Special
 3-in. Brewery Flange (304 SS)

