



Mr. James Bearzi, Chief  
New Mexico Environment Department  
re: Safety-Kleen Systems, Inc.- Class 1 Permit Modification  
July 16, 2008  
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beside the spent solvent tank approximately six inches from the base of the secondary containment structure. The sensor will be incorporated into the existing system to emit an audible alarm. Safety-Kleen requests that the last paragraph on page 1-6 of Attachment 1 to the Part B Permit be replaced with the following:

“The secondary containment is provided with a leak detection system that is designed and operated to detect the failure of the primary containment structure and the presence of any release of hazardous waste or accumulated liquids within 24-hours.”

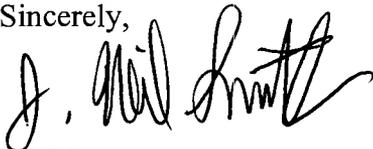
Information regarding leak detection system to be installed is included with this permit modification as follows:

- Attachment 1 Tank Farm Plan drawing
- Attachment 2 Tank Farm Leak Detection HLA Mounting drawing
- Attachment 3 Drexelbrook Intellipoint RF level indicator information

The contents of Attachment 1, Attachment 2, and Attachment 3 will augment the current contents of Attachment 1-1 of the Facility's Part B Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



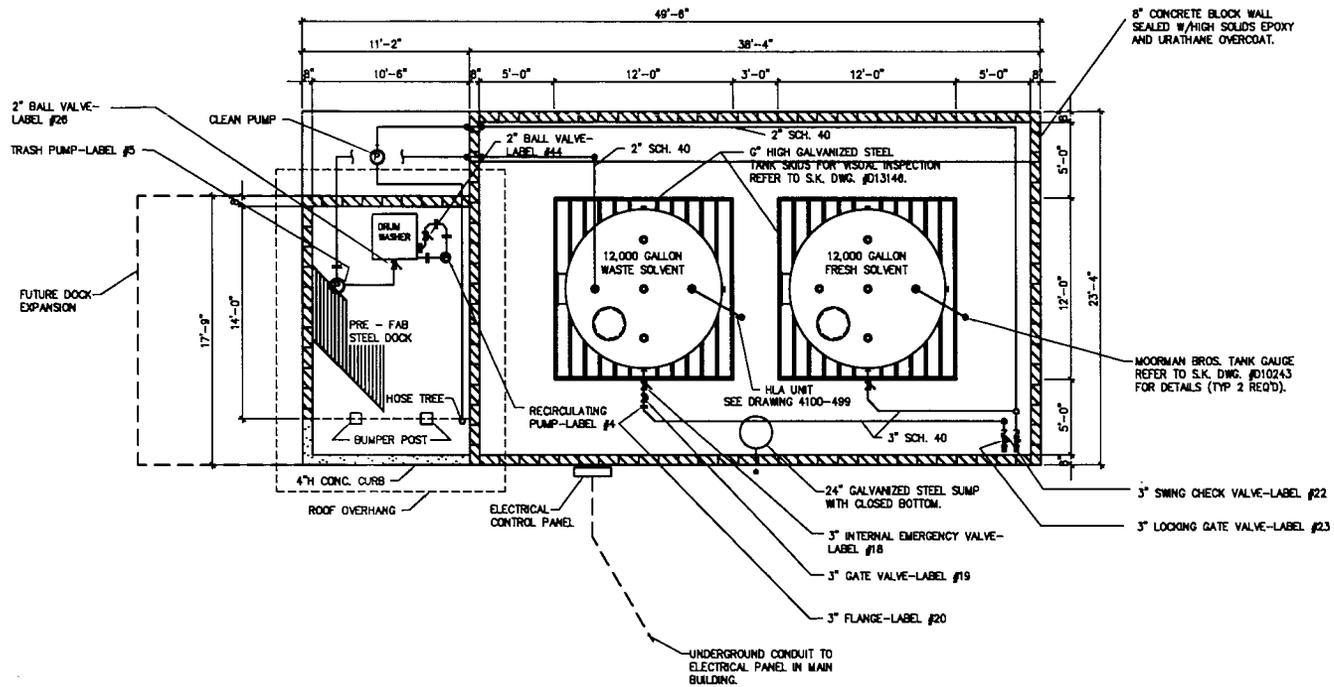
Neil Smith  
Environmental Health & Safety Manager  
Safety-Kleen Systems, Inc.

enclosures

cc: Randy Wood, Branch General Manager, Safety-Kleen Systems, Farmington NM

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**Attachment 1**



DIKE VOLUME CALCULATION - 12,000 GAL. STORAGE TANK (DIKE HEIGHT 3'-0")		CALC2
<u>FORMULAE USED:</u>		
$(\pi r^2 H)(7.48 \text{ GAL./SVCU. FT.}) = \text{TANK DISPLACEMENT VOLUME (GAL.'S)}$		
$(LWH)(7.48 \text{ GAL./SVCU. FT.}) = \text{DIKE VOLUME (GAL.'S)}$		
r (TANK RADIUS) = 6'-0"		
L (DIKE LENGTH) = 37'-0"		
W (DIKE WIDTH) = 22'-0"		
H (DIKE HEIGHT) = 3'-0"		
DIKE VOLUME: (44.08 FT.) (20.5 FT.) (3.0 FT.) (7.48 GAL./SVCU. FT.)	=	18,266 GAL.(+)
VOLUME OF LARGEST TANK WITHIN DIKED AREA:	=	12,000 GAL.(-)
<u>TANK DISPLACEMENT VOLUME:</u>		
$((5.25 \text{ FT.}) (3.0 \text{ FT.}) (7.48 \text{ GAL./SVCU. FT.}) (1 \text{ TANK}))$	=	2,115 GAL.(-)
RAINFALL ALLOWANCE 25 YR. 24 HR. AVERAGE (4.5")	=	2,283 GAL.(-)
TOTAL (EXCESS)	=	668 GAL.

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1300 Basso Industrial Drive • Suite 200 • Columbia • MD 21046  
 • Phone: (301) 443-7400 • Fax: (301) 443-7400

**TITLE**  
**TANK FARM PLAN**  
**4200A HAWKINS RD.**

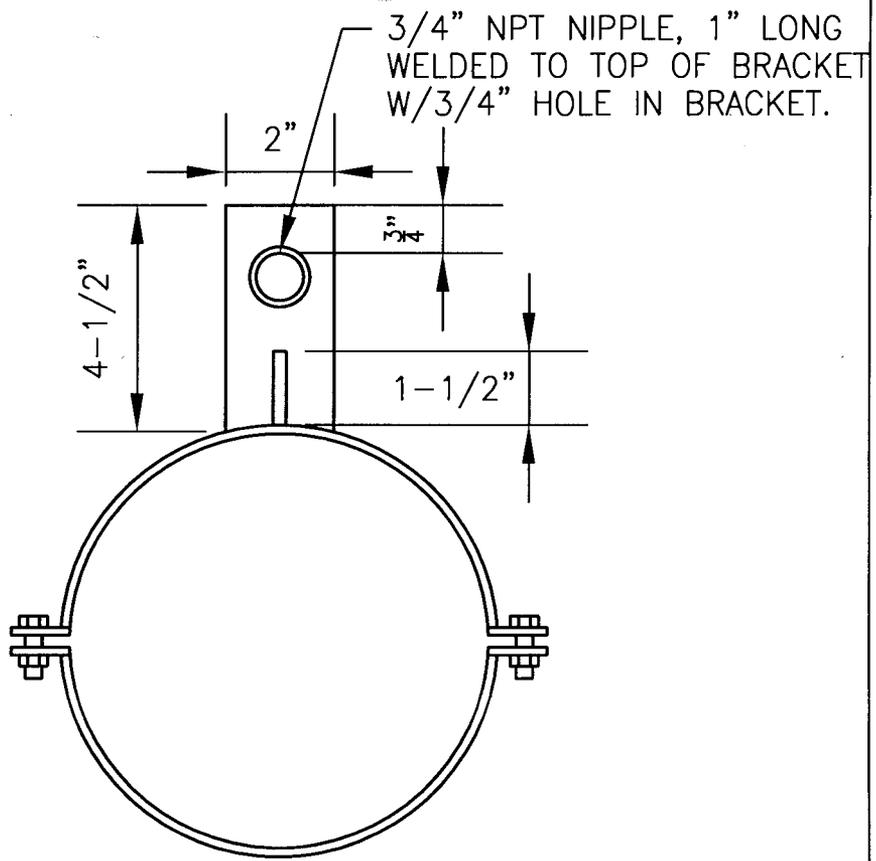
02	ADD HLA UNIT TO WASTE TANK	JK	02	02	3-11-98
01	REVISED VALVE CHANGES ON WASTE LINE	ALI			3-22-98
00	REVISED SAFETY KLEEN DRAWING TO CAD AS SHOWN. (REVISED S.K. DWG. 3-2373)	ALI			3-1-98
NO.	DESCRIPTION	BY	CHK	APPR	DATE

**SCALE:** 3/4" = 1'-0"  
**BY:** [Signature]  
**DATE:** 12/99

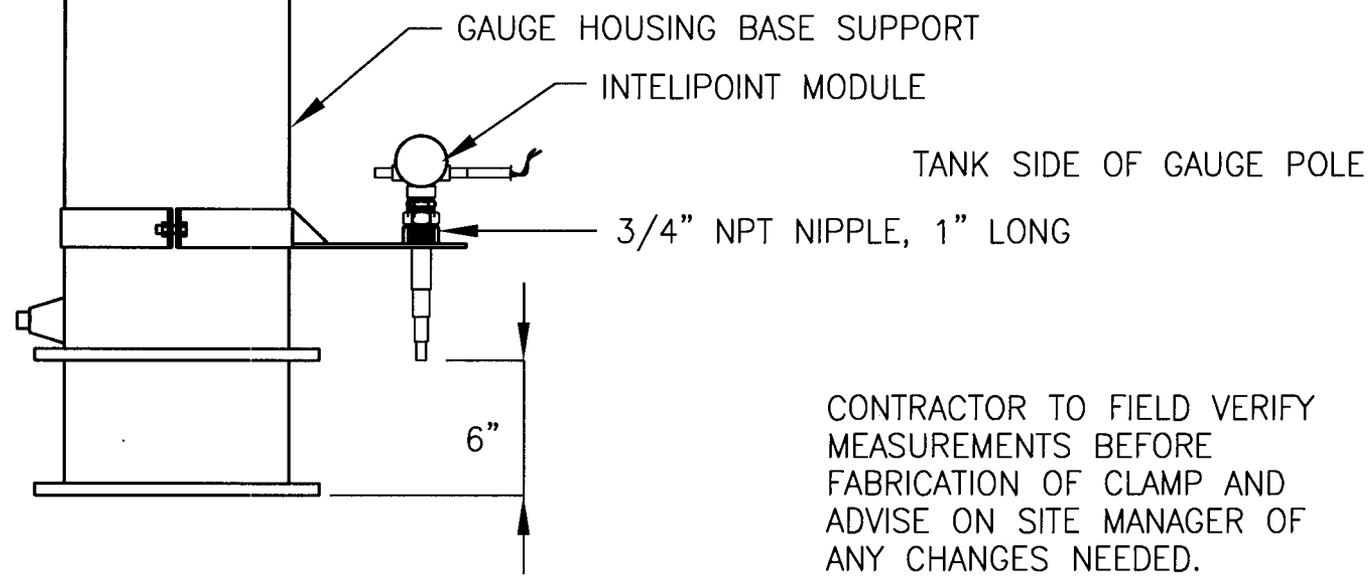
**SERVICE CENTER BRANCH AT:** FARMINGTON, NH  
**STD-DWG-REV NO.:** 7120-4300-000-02

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**Attachment 2**



2" X 1/4" STEEL BAND, 5" DIA.  
 SPLIT, BOLTED WITH 2- 3/8" DIA.  
 BOLTS, NUTS, LOCKWASHERS



TANK SIDE OF GAUGE POLE

CONTRACTOR TO FIELD VERIFY MEASUREMENTS BEFORE FABRICATION OF CLAMP AND ADVISE ON SITE MANAGER OF ANY CHANGES NEEDED.

**Project Solutions**  
 Companies

1390 Boone Industrial Drive • Suite 200 •  
 Columbia • MO 65202  
 Phone: (573) 443-7100  
 Fax: (573) 443-7181

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**TANK FARM LEAK DETECTION  
 HLA MOUNTING**

**SAFETY-KLEEN SYSTEMS, INC.**  
 5400 LEGACY DR. CLUSTER III, BLDG. 3 PLANO, TX. 75024 800-868-5740

SCALE NONE	BY JEK	CHKD DZ	APPR DZ	OP. APPR DZ	DATE 7/01/08
SERVICE CENTER LOCATION FARMINGTON, N.M.			SC-DWG NUMBER 7133-4100-499		REV. NO. A

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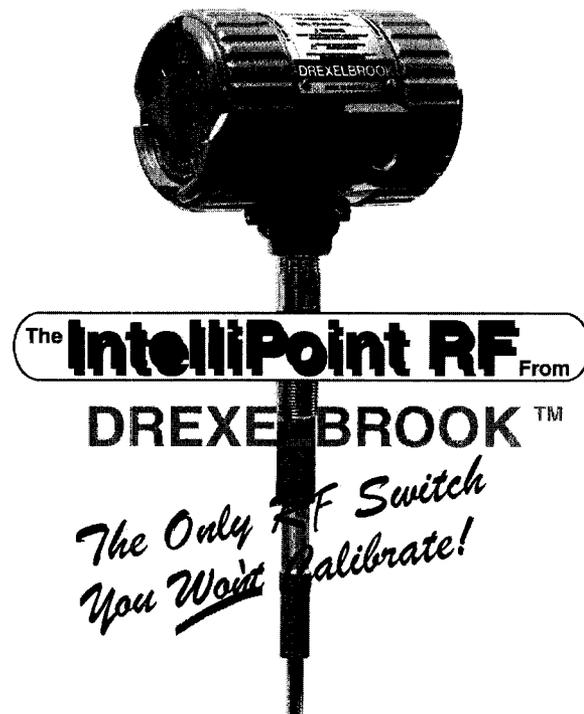
**Attachment 3**

**AMETEK**<sup>®</sup>  
DREXELBROOK

**A Leader in Level Measurement**

## **IntelliPoint RF™ Series**

### **Two-Wire Point Level Switch**



#### **Intelligent Electronics**

- No calibration or setpoint adjustments.
- Ignores changes in dielectric or conductivity.
- Automatically recognizes and ignores coatings to prevent false alarms.
- Continuous self-test monitors circuits and sensing elements for faults.

#### **Diverse Applications**

- Detects the absence or presence of liquids, slurries, interfaces and granulars.

#### **Output**

- 8mA (Alarm) 16mA (Normal) or 8mA (Normal) and 16 mA (Alarm)

#### **No Calibration**

The only RF switch you won't calibrate. Simply install the IntelliPoint RF Series into the tank and apply power...that's it! Unlike other RF or capacitance systems that require calibration via setpoint potentiometers, jumpers, magnets, or pushbuttons, the IntelliPoint RF Series reliably detects the absence or presence of material without any adjustments.

The IntelliPoint RF Series software continuously monitors the application for changes in composition, dielectric or conductivity, and maintains a repeatable trip point on the probe. Other RF and capacitance systems require calibration adjustments when the process material is changed. Since the IntelliPoint RF Series recognizes changes in material, it is ideal for non-dedicated tanks that are used for a wide variety of products.

#### **Self-Test Feature**

Automatic and manual self-test functions ensure proper system operation. An AutoVerify™ self-check circuit continuously monitors that the complete system is functioning properly. The Manual Certify not only checks the function of the system, but also checks the AutoVerify self-test circuits to make sure that they are also working properly.

#### **Dual Compartment Housing**

New dual compartment housing separates the customer wiring from the sensing element and operating circuits. The encapsulated power supply/terminal block design eliminates the possibility of damage caused by moisture in the conduit.

## Specifications

**Technology:**  
RF Admittance.

**Calibration:**  
None.

**Modes Of Operation:**  
High and Low Level.

**Repeatability:**  
2 mm (0.08 inch) conductive liquids.

**Response Time:**  
less than one second.

**Ambient Electronic Temperature:**  
-30 to 70°C (-28 to 158°F)

**Storage Temperature:**  
-40 to 85°C (-40 to 185°F).

**Indicators:**  
LEDs: Green Power, Red Alarm.

**Self-Check:**  
AutoVerify automatically and continuously checks electronics and sensing element for faults. Manual Certify checks that the AutoVerify circuits are functioning.

**Time Delay:**  
0-60 seconds, forward or reverse-acting.

**Supply Voltage:**  
13-30 Vdc

**Power Consumption:**  
2 watts maximum.

**Output:**  
8 mA - Alarm.  
16 mA - Normal.  
22 mA - Fault.  
or  
8 mA - Normal.  
16 mA - Alarm.  
5 mA - Fault.

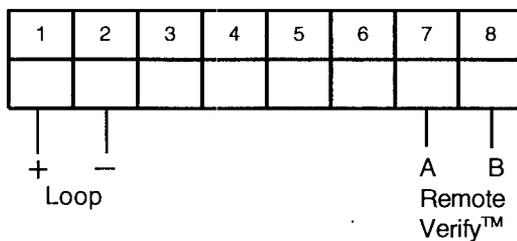
**Housing:**  
Dual Compartment, Powder-Coated aluminum with two cable entries.

**Cable Entry:**  
M20 x 1.5 CENELEC  
¾-inch NPT FM/CSA.

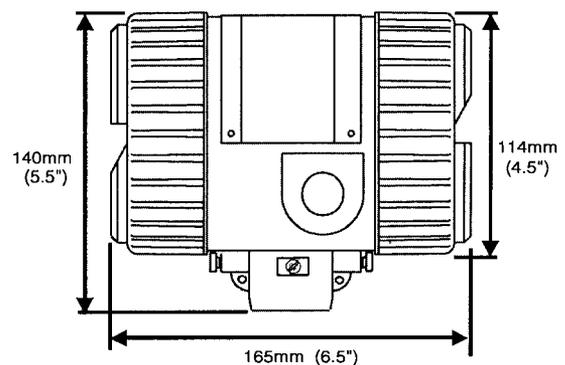
**Ingress Protection:**  
IP66 NEMA 4X.

**Approvals:**  
FM and CSA pending.

## Wiring



## Dimensions



# Model Numbering

## IntelliPoint RF™

### Technology

R RF Admittance

### Measurement Type

N No Calibration, Point Level

### Input

T Two wire Power Supply, 13-30 Vdc

### Housing

- 0 No Approvals, Dual Compartment NEMA 4X/IP66, M20 x 1.5 conduit entries
- 1 No Approvals, Dual Compartment NEMA 4X/IP66 ¾" NPT conduit entries
- 2 N/A
- 3 FM/CSA Approved, Dual Compartment NEMA 4X/IP66 ¾" NPT conduit entries

### Electronics

- 0 Integral
- 1 Remote, no cable
- 2 Remote with 3 m (10 feet) cable
- 3 Remote with 7.6 m (25 feet) cable
- 4 Remote with 10.6 m (35 feet) cable
- 5 Remote with 15.2 m (50 feet) cable
- 6 Remote with 23 m (75 feet) cable

### Output

0 8-16 mA Output

### Sensing Element

continued on next page

	Application	Sensing Element	Pressure/Temperature	Wetted Parts
00	General purpose	700-1202-001 remote 700-1202-021 integral	13.8 bar @ 232°C (200 PSI @ 450°F)	316SS and PEEK
01	Floating roof with cable attachment and brass bottom weight	700-1202-012 remote 700-1202-022 integral	13.8 bar @ 177°C (200 PSI @ 350°F)	316SS, Brass, and PEEK
02	General purpose, longer insertion lengths with cable attachment and 316SS bottom weight	700-1202-014 remote 700-1202-024 integral	13.8 bar @ 177°C (200 PSI @ 350°F)	316SS and PEEK
03	Proximity	700-1202-018 remote 700-1202-028 integral	13.8 bar @ 232°C (200 PSI @ 450°F)	316SS and PEEK with 76 mm (3) 316SS proximity plate
04	General purpose, high temperature and pressure	700-1202-041 remote 700-1202-042 integral	69 bar @ 121°C (1000 PSI @ 250°F) 20.7 bar @ 232°C (300 PSI @ 450°F)	316SS and PEEK
10	Corrosive liquids (2)(4)(9)	700-0001-018	3.4 bar @ 149°C (50 PSI @ 300°F)	PFA
11	General purpose, higher pressure TFE compatibility required	700-0201-005	69 bar @ 38°C (1000 PSI @ 100°F) 13.8 bar @ 232°C (200 PSI @ 450°F)	316SS and TFE
12	Corrosive material, higher pressure	700-0201-005 Hastelloy C	69 bar @ 38°C (1000 PSI @ 100°F) 13.8 bar @ 232°C (200 PSI @ 450°F)	Hastelloy C and TFE
13	Sanitary (3)	700-0201-036	69 bar @ 38°C (1000 PSI @ 100°F) 13.8 bar @ 232°C (200 PSI @ 450°F)	316/316L SS and TFE
14	General Purpose, low pressure	700-0202-002	3.4 bar @ 149°C (50 PSI @ 300°F) 1.4 bar @ 232°C (20 PSI @ 450°F)	316SS and TFE
15	Heavy duty, agitated tanks or material with high bulk density (1)	700-0202-043	69 bar @ 38°C (1000 PSI @ 100°F) 13.8 bar @ 232°C (200 PSI @ 450°F)	316SS and TFE
16	High integrity seal for hazardous material (8)	700-0002-360 (Seal Tyte™)	34.5 bar @ 149°C (500 PSI @ 300°F)	PFA (flange mounting only)
18	Corrosive material, higher pressure with waterlike viscosity (4)	700-0001-022	69 bar @ 38°C (1000 PSI @ 100°F) 34.5 bar @ 149°C (500 PSI @ 300°F)	TFE
20	Miniature Pilot Plant Sensor (1)(7)	700-0209-002	6.9 bar @ 121°C (100 PSI @ 250°F) 0 bar @ 232°C (0 PSI @ 450°F)	316 SS and TFE
60	Highest pressure and temperature (1)	700-0204-038	138 bar @ 93°C (2000 PSI @ 200°F) 69 bar @ 260°C (1000 PSI @ 500°F)	316SS and Ceramic

R N T 0

# Model Numbering (cont.)

## Sensing Element continued from previous page

### Fly Ash Precipitators, Baghouse, and Economizers (1) (6)

	Application	Sensing Element	Pressure/Temperature	Wetted Parts
31	No hopper installation	700-0029-001	0.1 bar @ 260°C (2 PSI @ 500°F)	316SS and TFE (CS Inactive)
32	Hopper installation up to 200mm (8 inches)	700-0029-002	0.1 bar @ 260°C (2 PSI @ 500°F)	316SS and TFE (CS Inactive)
33	Hopper installation up to 250mm (10 inches)	700-0029-003	0.1 bar @ 260°C (2 PSI @ 500°F)	316SS and TFE (CS Inactive)
35	Hopper installation up to 400mm (16 inches)	700-0029-005	0.1 bar @ 260°C (2 PSI @ 500°F)	316SS and TFE (CS Inactive)

### Plugged Chute Detection (1) (5)

	Application	Sensing Element	Pressure/Temperature	Wetted Parts
50	Flush Mount Sensor 305mm <sup>2</sup> (12 inches <sup>2</sup> ) heavy duty	700-0207-001	0.1 bar @ 82°C (1 PSI @ 180°F)	304 SS and Polyurethane
51	Flush Mount Sensor 305mm <sup>2</sup> (12 inches <sup>2</sup> ) higher temperature	700-0207-002	0.1 bar @ 149°C (1 PSI @ 300°F)	304 SS and TFE
52	Flush Mount Sensor 305mm <sup>2</sup> (12 inches <sup>2</sup> ) with curved radius 153, 229, 305 mm (6, 9, or 12 inches)	700-0207-003	0.1 bar @ 82°C (1 PSI @ 180°F)	304 SS and Neoprene
53	Flush Mount Sensor 305mm <sup>2</sup> (12 inches <sup>2</sup> ) extra heavy duty	700-0207-004	0.1 bar @ 82°C (1 PSI @ 180°F)	410 SS and UHMW Polyethylene
55	Flush Mount Sensor 203mm <sup>2</sup> (8 inches <sup>2</sup> ) heavy duty	700-0207-006	0.1 bar @ 82°C (1 PSI @ 180°F)	304 SS and Polyurethane

### Mounting Type (See separate Mounting Chart for first three digits)

	IL	CSL		IL	CSL
xxxA	152 mm (6")	51 mm (2")	xxxH	914 mm (36")	254 mm (10")
xxxB	305 mm (12")	51 mm (2")	xxxJ	914 mm (36")	0 mm (0")
xxxC	305 mm (12")	89 mm (3.5")	xxxK	1219 mm (48")	254 mm (10")
xxxD	457 mm (18")	51 mm (2")	xxxL	1524 mm (60")	254 mm (10")
xxxE	457 mm (18")	89 mm (3.5")	P00X	IL/CSL factory set for Plugged Chute	
xxxF	457 mm (18")	254 mm (10")	A1BX	IL/CSL factory set for Fly Ash	
xxxG	457 mm (18")	0 mm (0")	xxxZ	Other	



- Notes:
- (1) Available with remote electronics only
  - (2) Use A1P mounting option
  - (3) Choose from sanitary mounting options only
  - (4) Available with 0-inch CSL only
  - (5) Use P00X mounting option
  - (6) Use A1B mounting option
  - (7) Use A8B mounting option (¼-inch NPT)
  - (8) Choose from flange mounting only
  - (9) FM approved with remote electronics only
- Not all mounting options available with all sensing elements**

	NPT Threads	
A1B	¾" NPT	316SS
A1C	¾" NPT	Hastelloy C
A1P	¾" NPT	PFA
A2B	1" NPT	316SS
A2C	1" NPT	Hastelloy C

	Sanitary TriClamps	
C2B	1" TriClamp	316SS
C3B	1½" TriClamp	316SS
C4B	2" TriClamp	316SS

	DIN Flanges	
E01	25 mm 16bar	RF 316/316L SS
EP1	25 mm 40 bar	RF 316/316L SS
EQ1	50 mm 16 bar	RF 316/316L SS
ER1	50 mm 40 bar	RF 316/316L SS
ES1	80 mm 16 bar	RF 316/316L SS
ET1	80 mm 40 bar	RF 316/316L SS
EU1	100 mm 16 bar	RF 316/316L SS
EV1	100 mm 40 bar	RF 316/316L SS
EW1	150 mm 16 bar	RF 316/316L SS
EX1	150 mm 40 bar	RF 316/316L SS

	DIN Flanges (cont.)	
E02	25 mm 16 bar	RF Carbon Steel
EP2	25 mm 40 bar	RF Carbon Steel
EQ2	50 mm 16 bar	RF Carbon Steel
ER2	50 mm 40 bar	RF Carbon Steel
ES2	80 mm 16 bar	RF Carbon Steel
ET2	80 mm 40 bar	RF Carbon Steel
EU2	100 mm 16 bar	RF Carbon Steel
EV2	100 mm 40 bar	RF Carbon Steel
EW2	150 mm 16 bar	RF Carbon Steel
EX2	150 mm 40 bar	RF Carbon Steel

	ANSI Flanges	
DA1	1" 150#	RF 316/316L SS
DB1	1½" 150#	RF 316/316L SS
DC1	2" 150#	RF 316/316L SS
DD1	2½" 150#	RF 316/316L SS
DE1	1" 300#	RF 316/316L SS
DF1	1½" 300#	RF 316/316L SS
DG1	2" 300#	RF 316/316L SS
DH1	2½" 300#	RF 316/316L SS
DI1	3" 150#	RF 316/316L SS

	ANSI Flanges (cont.)		
DJ1	3"	300#	RF 316/316L SS
DK1	4"	150#	RF 316/316L SS
DL1	4"	300#	RF 316/316L SS
DM1	6"	150#	RF 316/316L SS
DN1	6"	300#	RF 316/316L SS
DA2	1"	150#	RF Carbon Steel
DB2	1½"	150#	RF Carbon Steel
DC2	2"	150#	RF Carbon Steel
DD2	2½"	150#	RF Carbon Steel
DE2	1"	300#	RF Carbon Steel
DF2	1½"	300#	RF Carbon Steel
DG2	2"	300#	RF Carbon Steel
DH2	2½"	300#	RF Carbon Steel
DI2	3"	150#	RF Carbon Steel
DJ2	3"	300#	RF Carbon Steel
DK2	4"	150#	RF Carbon Steel
DL2	4"	300#	RF Carbon Steel
DM2	6"	150#	RF Carbon Steel
DN2	6"	300#	RF Carbon Steel

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