

SENSING ELEMENT REFERENCE

Sensing Element Reference

01-Mar-05

Sensing Element	Special Characteristics Primary application	Standard Mounting Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 1 Temperature 2	Pressure 1 Pressure 2	Cooling Ext Cooling Ext Temp
700-0001-016	3A approved sanitary Conductive non-coating liquids and slurries	1-1/2" tri-clamp TFE 0.375 1 1/2"	300	200	No
700-0001-018	No wetted metal parts Corrosive non-coating conductive liquids	3/4" NPT/PFA PFA 0.375 NA	300	50	No
700-0001-022	General purpose low capacitance Non-coating conductive liquids	3/4" NPT/316 SS TFE 0.375 1/2"	100 300	1000 500	Yes 300
700-0001-024	Concentric shield Low viscosity insulating liquids. Typically use 700-0001-026	1-1/2" NPT/316 SS TFE 1.66 2"	100 300	1000 500	Yes 300

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700-0001-026	Perforated concentric shield Low to medium viscosity insulating liquids.	1-1/2" NPT/316 SS	100	1000	Yes
		TFE 1.66	300	500	300
		2"			
700-0001-034	Carbon steel cage High viscosity insulating liquids	4" 150# CS flange	100	1000	Yes
		TFE 4.026	300	500	300
		4"			
700-0001-040	No fluoropolymers Tobacco Industry	3/4" NPT/316 SS	150	50	No
		Polyethylene 0.375			
		1/2"			
700-0001-044	General purpose Non-coating conductive liquids where TFE is not acceptable	3/4" NPT/316 SS	100	1000	Yes
		PFA 0.375	300	500	300
		1"			

Sensing Element	Special Characteristics	Standard Mounting	Temperature 1	Pressure 1	Cooling Ext
	Primary application	Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 2	Pressure 2	Cooling Ext Temp
700-0001-045	Designed to Chlorine Inst stds. CS conc. shield	4" 300# CS flange	200	500	No
	Chlorine service	TFE 1.66 4"			
700-0001-054	Insulated ground rod with exposed Hastelloy C tip	TFE faced flange	100	1000	No
	Corrosive, conductive, non-coating liquids in non-metallic tanks	TFE 0.375 2"	300	500	
700-0001-064	316 SS ground rod	TFE faced flange	100	1000	No
	Non-corrosive, conductive, non- coating liquids in non- metallic tanks	TFE 0.375 2"	300	500	
700-0001-074	Small concentric shield	3/4" NPT/316 SS	100	1000	No
	Very low viscosity insulating or low conductivity liquids	TFE 0.84 1"	300	500	

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700-0001-344	High integrity seal	PFA faced SealTyte flange	100	1000	No
	Conductive non-coating hazardous liquids	PFA	350	500	
		0.375			
		1"			
700-0002-023	No Cote Shield	3/4" NPT/316 SS	100	1000	Yes
	Preferred for horizontal interface switch. Continuous, insulating liquids.	316 SS/TFE	300	500	300
		0.5			
		1"			
700-0002-024	Crimped cooling extension for high temperature	3/4" NPT/316 SS	100	1000	Yes
	Conductive non-coating liquids and interfaces	TFE	450	500	
		0.75			
		1"			
700-0002-027	Thin insulation	3/4" NPT/316 SS	100	1000	Yes
	Interfaces and coating liquids where PVDF is not acceptable	FEP	300	500	
		0.54			
		1"			

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700-0002-028	Stress relieving snout & special rod for agitation	3/4" NPT/316 SS	100	1000	Yes
	Agitated service	TFE 0.75 1"	300	500	300
700-0002-029	Rearmounted 700- 0002-027	1" NPT female/316 SS	100	1000	No
	Inverted interface	FEP 0.54 1"	300	500	
700-0002-033	700-0002-023 with 6" cooling extension std	3/4" NPT/316 SS	100	1000	Yes
	Preferred for horizontal interface switch. Continuous, insulating liquids.	316 SS/TFE 0.5 1"	550	400	
700-0002-036	3A approved sanitary	1-1/2" tri-clamp	250	300	No
	Highly conductive coating liquids and slurries	PVDF 0.54 1 1/2" Tri Clamp			

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700-0002-037	Very high capacitance Highly conductive coating liquids slurries and interfaces	3/4" NPT/316 SS	100	1000	No
		PVDF	250	500	
		0.54 1"			
700-0002-040	No fluoropolymers Tobacco Industry	1" NPT/316 SS	100	500	No
		UHMW PE	150	250	
		0.84 1"			
700-0002-044	Insulated ground rod with exposed Hastelloy C tip Corrosive, highly conductive, coating liquids and slurries in non-metallic tanks	TFE faced flange	100	1000	No
		PVDF	250	500	
		0.54 2"			
700-0002-054	Corrosive conductive coating liquids and slurried in non-metallic tanks	TFE faced flange	100	1000	No
		FEP	300	500	
		0.54 2"			

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	Primary application	Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 2	Pressure 2	Cooling Ext Temp
700-0002-057	General purpose high capacitance	1" NPT/316SS	100	1000	No
	Conductive coating liquids slurries and interfaces	PVDF 0.84	250	500	
		1"			
700-0002-059	Rearmounted 700-0002-057	1" NPT female/316 SS	100	1000	No
	Inverted interface	PVDF 0.84	250	500	
		1"			
700-0002-064	Insulated ground rod with exposed Hastelloy C tip	TFE faced flange	100	1000	No
	Corrosive, conductive, coating liquids and slurried in non-metallic tanks	PVDF 0.84	250	500	
		2"			
700-0002-224	High voltage filter	3/4" NPT/316 SS	100	1000	Yes
	Interface measurements in electrostatic desalters	TFE 0.5	450	500	
		1"			

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	Primary application	Minimum Flange Size	Temperature 2	Pressure 2	Cooling Ext Temp
700-0002-321	High integrity seal Conductive non-coating hazardous liquids	FEP faced SealTyte flange FEP 0.75 1 1/2"	100 300	1000 500	No
700-0002-360	High integrity seal & driven inactive	PFA faced SealTyte flange PFA 0.375 1"	100 300	1000 500	Yes
700-0002-363	Conductive non-coating hazardous liquids @ higher pressure	PFA faced SealTyte flange PFA 0.375 1"	150 350	2500 1500	No
700-0003-009	Sectioned concentric shield Insulating liquids	2" NPT/CS PFA 1.9 2"	100 300	1000 500	No

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	Primary application	Diameter (inch)	Temperature 2	Pressure 2	Cooling Ext Temp
		Minimum Flange Size			
700-0004-031	High temperature ceramic insulator Insulating liquids	1-1/2" NPT/316 SS 316 SS/TFE 1.66 2"	750	1000	No
700-0004-050	High pressure Conductive non-coating liquids	1-3/4" 5 tpi/316 SS FEP 0.375 1"	200 300	20000 5000	No
700-0005-009	Very good abrasion resistance High abrasion solids	2" NPT/316 SS Urethane 0.75 2 1/2"	150	5	No
700-0005-018	Good coating rejection, strong Conductive coating liquids, slurries and interfaces	3/4" NPT/316 SS PVDF 0.3125 1"	100 250	1000 500	Yes
700-0005-019	Use with semi-conductive solids Coal, ores, etc.	2" NPT/316 SS Special urethane 0.75 2 1/2"	150	5	No

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700-0005-028	Very strong Highly agitated conductive liquids and slurries	1-1/4" NPT/316 SS PVDF 0.5 1 1/2"	100 250	1000 500	No
700-0005-035	Well design Water wells	3/4" NPT/316 SS PFA 0.93 1"	300	500	Yes
700-0005-048	Strong Conductive liquids where PVDF is not acceptable	3/4" NPT/316 SS PFA 0.3125 1"	100 300	1000 500	Yes 300
700-0005-054	Sheds coatings, can not be anchored Conductive liquids	3/4" NPT/316 SS PFA 0.093 1"	300	500	Yes 300

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700-0005-085	Weight is ground, Hastelloy C optional Conductive non- coating liquids in non- metallic tanks	3/4" NPT/316 SS FEP 0.185 1"	200	200	Yes
700-0005-185		3/4" NPT/316 SS FEP 0.185 1"	200	200	Yes
700-0005-348	High integrity seal Conductive non- coating hazardous liquids	PFA faced SealTyte flange PFA 0.3125 1"	300	500	No
700-0005-354	Conductive hazardous liquids	PFA faced SealTyte flange PFA 0.93 1"	300	500	No

Sensing Element	Special Characteristics Primary application	Standard Mounting Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 1	Pressure 1	Cooling Ext
			Temperature 2	Pressure 2	Cooling Ext Temp
700-0008-126	True Level	1-1/2" NPT/316 SS	100	1000	Yes
	Homogeneous insulating liquids with changing electrical properties	TFE	300	500	
		1.66			
		2"			
700-0008-144	SealTyte True Level	SealTyte Flange	100	1000	Yes
	Hazardous, homogeneous insulating liquids with changing electrical properties	PFA	350	500	
		0.375			
		1 1/2"			
700-0009-002	Very small	1/4" NPT/316 SS	100	1000	Yes
	Pilot plants	TFE	300	500	
		0.3125			
		1 1/2" Tri Clamp			
700-0009-057	Very small, high capacitance	1/4" NPT/316 SS	100	1000	Yes
	Interfaces in pilot plants	Tefzel	250	300	
		0.3125			
		NA			

Sensing Element	Special Characteristics	Standard Mounting	Temperature 1	Pressure 1	Cooling Ext
	Primary application	Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 2	Pressure 2	Cooling Ext Temp
700-0018-126	True Level	1-1/2" NPT/316 SS	100	1000	Yes
	Homogeneous insulating liquids with changing electrical properties	TFE 1.66 2"	300	500	
700-0018-144	SealTyte True Level	SealTyte Flange	100	1000	Yes
	Hazardous, homogeneous insulating liquids with changing electrical properties	PFA 0.375 1 1/2"	350	500	
700-0021-001	Extra heavy duty for agitated service	2" NPT/316 SS	100	500	No
	Highly agitated conductive non-coating liquids and slurries	TFE 1.375 2 1/2"	300	200	

Sensing Element	Special Characteristics Primary application	Standard Mounting Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 1	Pressure 1	Cooling Ext
			Temperature 2	Pressure 2	Cooling Ext Temp
700-0021-003	Extra heavy duty for agitated service	2" NPT/316 SS	100	500	No
	Highly agitated conductive coating liquids and slurries wher PVDF is not acceptable	FEP 1.125	300	200	
		2 1/2"			
700-0021-007		2-1/2" NPT/316SS	100	500	No
	Highly agitated conductive coating liquids and slurries	PVDF 1.3	250	200	
		2 1/2"			
700-0029-001	Fixed dimensions 0" inactive	3/4" NPT/316 SS	500	2	No
	Fly ash hopper pipe nipple up to 2"	316 SS/TFE 0.375			
		NA			
700-0029-002	Fixed dimensions 7" inactive	3/4" NPT/316 SS	500	2	No
	Fly ash hopper pipe nipple up to 8"	316 SS/TFE 0.375			
		NA			

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700-0029-003	Fixed dimensions 16" inactive	3/4" NPT/316 SS	500	2	No
	Fly ash hopper pipe nipple up to 16"	316 SS/TFE 0.375			
		NA			
700-0029-004	Fixed dimensions 20.5" inactive	3/4" NPT/316 SS	500	2	No
	Fly ash hopper pipe nipple up to 20.5"	316 SS/TFE 0.375			
		NA			
700-0029-005	Fixed dimensions 25" inactive	3/4" NPT/316 SS	500	2	No
	Fly ash hopper pipe nipple up to 25"	316 SS/TFE 0.375			
		NA			
700-0201-005	Available in a variety of materials	3/4" NPT/316 SS	100	1000	Yes
	Higher pressure general purpose and/or corrosive liquids and interfaces	316 SS/TFE 0.25	450	200	300
		1"			

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	Primary application	Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 2	Pressure 2	Cooling Ext Temp
700-0201-036	3A approved sanitary High pressure sanitary	1-1/2" tri-clamp 316 SS/TFE 0.25 1 1/2" Tri Clamp	300	200	No
700-0202-002	General purpose Low pressure general purpose where PEEK is not acceptable	3/4" NPT/316 SS 316 SS/TFE 0.375 1"	300 450	50 20	Yes 300
700-0202-036	3A approved sanitary Low pressure sanitary	1-1/2" tri-clamp 316 SS/TFE 0.375 1 1/2" Tri Clamp	300	50	No
700-0202-043	Heavier duty, available in Hastelloy C Higher pressure and/or corrosive liquids, solids, slurries and interfaces	1" NPT/316 SS 316 SS/TFE 0.5 1 1/2"	100 450	1000 200	Yes 300
700-0204-002	High temperature High temp. solids	1-1/4" NPT/316 SS 316 SS/Ceramic 0.5 1 1/2"	700 1500	1 0	Yes

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	Primary application	Rod/Insulation material Diameter (inch) Minimum Flange Size	Temperature 2	Pressure 2	Cooling Ext Temp
700-0204-038	High pressure	1-1/4" NPT/316 SS	200	2000	Yes
	High pressure	316 SS/Ceramic 0.5 1 1/2"	500	1000	
700-0204-048	High Temperature and pressure	1-1/4" NPT/316 SS	600	4000	Yes
	High temperature & pressure	316 SS/Ceramic 0.5 2"			
700-0205-005	General purpose cable	3/4" NPT/316 SS 316 SS/TFE 0.1875 1"	180	0	No
700-0205-015		1" NPT/316 SS 316 SS/TFE 0.1875 1"	450	0	No
700-0206-101	Special for Z-Trons	3/4" NPT/316 SS 316 SS/PEEK 0.375 NA	250	200	Yes

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700-0206-201	Special for Z-Trons Z-Tron 3 only	3/4" NPT/316 SS 316 SS/PEEK 0.375 NA	250	200	Yes
700-0207-001	General purpose (12" X 12") Plugged chute detection	12" X 12" plate 316 SS/Polyurethane 12 NA	180	1	No
700-0207-002	Higher temperature	12" X 12" plate 316 SS/TFE 12 NA	300	1	No
700-0207-003	Curved	12" X 12" plate 316 SS/Polyurethane 12 NA	180	1	No
700-0207-004	Extra heavy duty	12" X 12" plate 410 SS/Polyurethane 12 NA	180	1	No
700-0207-006	Compact size (8" X 8")	8" X 8" plate 316 SS/Polyurethane 8 NA	180	1	No

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	Primary application	Rod/Insulation material	Temperature 2	Pressure 2	Cooling Ext Temp
		Diameter (inch)			
		Minimum Flange Size			
700-0209-002	Very small	1/4" NPT/316 SS	250	100	Yes
	Pilot plants	316 SS/TFE 0.1875 1" Tri Clamp	450	0	300
700-0221-002	Heavy duty	2" NPT/316 SS	300	50	No
	Low level alarm in tall silos	316 SS/TFE 0.875 2"	450	20	
700-1202-001	General purpose	3/4" NPT/316 SS	450	200	Yes
	Preferred choice for switches	316 SS/PEEK 0.375 1"			
700-1202-010	7/8" bottom collar	3/4" NPT/316 SS	450	200	Yes
	High sensitivity with insulating liquids	316 SS/PEEK 0.375 1"			
700-1202-012	Brass weight	3/4" NPT/316 SS	450	200	Yes
	Floating roof	316 SS/PEEK 0.375 1"			

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700-1202-014	Cable extension Long length point level	3/4" NPT/316 SS 316 SS/PEEK 0.375 1"	450	200	Yes
700-1202-018	Proximity plate Proximity	3/4" NPT/316 SS 316 SS/PEEK 0.375 1"	450	200	Yes
700-1202-031	FDA approved PEEK Food & beverage	3/4" NPT/316 SS 316 SS/PEEK 0.375 1"	450	200	Yes
700-1202-033	FDA approved PEEK & 7/8" bottom collar High sensitivty with insulating liquids	3/4" NPT/316 SS 316 SS/PEEK 0.375 1"	450	200	Yes
700-1202-041	Higher pressure rating Preferred choice for switches @ higher pressure	3/4" NPT/316 SS 316 SS/PEEK 0.375 1"	250 450	1000 300	Yes