



Chemical Injection Technologies

Technical Bulletin

SUPERIOR Gas Chlorinators Materials of Construction

This table lists the materials used in the manufacture of SUPERIOR Gas Chlorinators. Wet chlorine gas, liquid (elemental) chlorine, and chlorine solutions are known to be highly corrosive to most common metals and incompatible with many plastics. All materials of construction in SUPERIOR Gas Chlorinators have been thoroughly tested for compatibility with all three forms of chlorine.

	PART DESCRIPTION	MATERIAL OF CONSTRUCTION
V A C U U M	BODY ASSEMBLY - MOLDED	ABS - GLASS REINFORCED
	DIAPHRAGM PLATES	ABS - GLASS REINFORCED
	GASKETS & O-RINGS	VITON® (LITHARGE CURED)
	BODY AND YOKE BOLTS	TITANIUM*
	MAIN REGULATING SPRING	TANTALLUM ALLOY*
R E G U L A T O R	DIAPHRAGM	HALAR® (ECTFE)*
	INLET VALVE PLUG	ALLOY "K"*
	INLET VALVE SEAT	TEFLON®
	INLET ADAPTER	KYNAR® (PVDF)*
	INLET CAPSULE HOUSING	KYNAR® (PVDF)
	INLET FILTER	PROPRIETARY - 25 MICRON
	YOKE ASSEMBLY	0.020" HALAR® OVER STEEL
M E T E R	METER PANEL BODY - MOLDED	ABS - GLASS REINFORCED
	FLOW TUBE	BOROSILICATE GLASS
	GASKETS & O-RINGS	VITON® (LITHARGE CURED)
	RATE VALVE SEAT, KNOB & PLUG SHAFT	KYNAR® (PVDF)
	RATE VALVE METERING TIP	ALLOY "K"*
E J E C T O R	CHECK VALVE & EJECTOR BODY - MOLDED	ABS - GLASS REINFORCED
	NOZZLE (VENTURI)	ABS - GLASS REINFORCED
	SPRING	TANTALLUM ALLOY*
	DIAPHRAGM	TEFLON®
	HIGH PRESSURE CHECK VALVE	VITON® (LITHARGE CURED)
	O-RINGS	VITON® (LITHARGE CURED)
	DIFFUSER	ABS - (GLASS REINFORCED)
M I S C	WATER/SOLUTION GASKETS	KOROSEAL
	VACUUM TUBING CONNECTIONS	KYNAR® (PVDF)
	VACUUM TUBING	POLYETHYLENE (CARBON BLACK)

* THESE PARTS ARE WARRANTED FOR THE LIFE OF THE EQUIPMENT.

NOTE: ALLOY "K" IS A PROPRIETARY METAL THAT IS BOTH MORE INERT, AND STRONGER, THAN SILVER IN WET, DRY OR LIQUID CHLORINE OR SO2 GAS.