



# Chemical Injection Technologies

## Technical Bulletin

### SUPERIOR Gas Chlorinators 1,000 & 2,000 PPD(20 & 40 KG/HR) 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  R E G U L A T O R	BODY ASSEMBLY - MOLDED	ABS - GLASS REINFORCED
	DIAPHRAGM PLATES - MOLDED	ABS - GLASS REINFORCED
	GASKETS & O-RINGS	VITON® (LITHARGE CURED)
	BODY AND YOKE BOLTS	TITANIUM*
	MAIN REGULATING SPRING	TANTALLUM ALLOY*
	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 CERAMIC
	YOKE ASSEMBLY	0.020" HALAR® OVER STEEL
M E T E R	METER PANEL BODY - MACHINED	PVC
	FLOW TUBE / FLOAT	BOROSILICATE GLASS / PVDF
	GASKETS & O-RINGS	VITON® (LITHARGE CURED)
	RATE VALVE PLUG SHAFT	KYNAR® (PVDF)
	RATE VALVE SEAT	PVC
E J E C T O R	CHECK VALVE & EJECTOR BODY - MACHINED	PVC
	NOZZLE (VENTURI)	PVC
	THROAT	PVC
	DIAPHRAGM (SPIDER)	VITON® (LITHARGE CURED)
	INLET & OUTLET UNIONS	PVC
	O-RINGS	VITON®
M I S C	VACUUM TUBING CONNECTIONS	PVC UNIONS W/ VITON O--RINGS

\* 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 SO<sub>2</sub> GAS.

Copyright © 2020, Chemical Injection Technologies, Inc

Printed in U.S.A.

ISO 9001:2015 CERTIFIED No. C0253760-IS2 All materials listed are hereby certified as true & correct by Chemical Injection Technologies, Inc.

