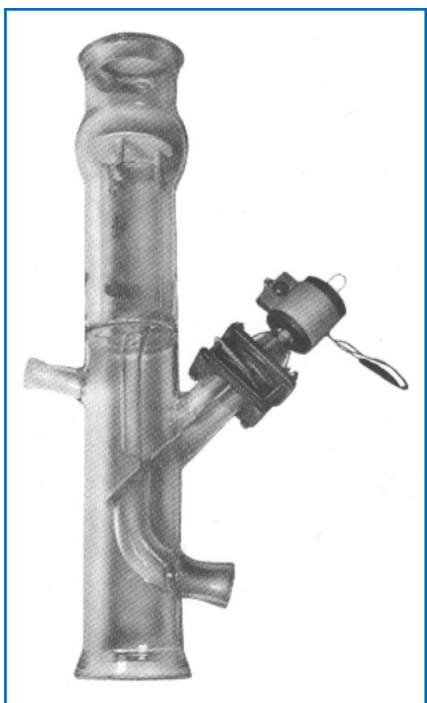




# CHEM FLOWTRONICS

## Glass — Column Design Reflux Splitters



### PERFORMANCE

The splitter is electrically operated by a timer and a solenoid which provide accurate control. Reflux splitters facilitate measurement and control at a single station, streamlining your system. The precision timer has an adjustable ratio of 1:1 and 1:120 seconds. This timer is available in general purpose or Class 1, Group D enclosure. (See Bulletin RS-2T)

#### FLOW RATES

COLUMN DESIGN		IN-LINE DESIGN	
Size	Min. & Max.	Size	Min. & Max.
3" - 9	0.14 GPM at 0" HEAD	1" - 9	0.14 GPM at 0" HEAD
	1.5 GPM at 4" HEAD		2.0 GPM at 21" HEAD
3" - 16	0.6 GPM at 0" HEAD	1" - 16	0.6 GPM at 0" HEAD
	4.2 GPM at 4" HEAD		7.7 GPM at 21" HEAD
4" - 25	1.0 GPM at 0" HEAD	1½" - 25	1.0 GPM at 0" HEAD
	10.4 GPM at 5" HEAD		19.0 GPM at 21" HEAD
6" - 28	1.5 GPM at 0" HEAD	2" - 28	1.5 GPM at 0" HEAD
	15.0 GPM at 5" HEAD		23.0 GPM at 21" HEAD

Larger sizes available on special order.

### SPECIFICATIONS

#### PRESSURE AND TEMPERATURE RATINGS:

Maximum Pressure	
In-line Design	50 psi
Column Design	3" — 40 psi
	4" — 35 psi
	6" — 20 psi
	9" — 15 psi
	12" — 11 psi

Maximum Temperature	450°F
Thermal Shock	200°F

#### ELECTRICAL CHARACTERISTICS:

Current Input	110 Volts AC
Rectifier Rating	P.I.V. 200 (6 AMPS)
Solenoid Coil Rating D.C.	
DCR	48 V. D.C.
	59.4 OHMS
	1.9 AMPS
TIMER (Rated 10 AMPS)	
	Single Phase 60 Cycle 110 V. A.C.

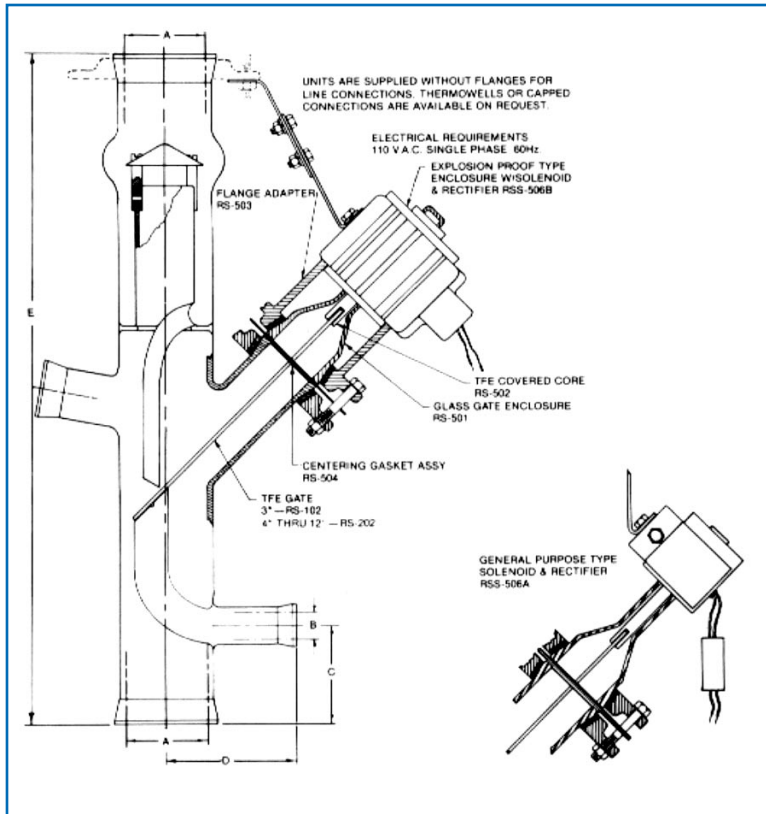
### COMPLETE CORROSION RESISTANCE

Borosilicate glass and TFE construction insures corrosion resistance to all liquids except hydrofluoric acid and hot concentrated caustics.

### VISIBILITY

The glass construction of the reflux splitter insures the ultimate in process control by giving the operator full visibility at all times.

# Glass — Column Design Reflux Splitters



## COLUMN DESIGN

The column design on the right shows the simple construction with the TFE gate and TFE enclosed core being the only moving parts. This simplicity offers the rugged trouble-free operation essential for quality process equipment. In operation, the timer energizes the solenoid whose TFE enclosed core pulls up the TFE gate so that the product line is open. In the event of electrical failure, the gate will be in the closed position, causing the liquid to return to the reactor.

Size	A	B	C	D	E
3" - 9	3"	1" *	3" *	4 1/4"	24"
3" - 16	3"	1"	3 1/2"	4 1/4"	24"
4" - 25	4"	1 1/2"	4 5/8"	4 3/4"	30"
6" - 28	6"	2"	4 5/8"	5 3/4"	30"
9" - 28	9"	2"	4 5/8"	7 1/8"	30"
12" - 28	12"	2"	4 5/8"	8 13/16"	30"

NOTE: All units are supplied without flanges for line connections. Column design is normally supplied with 1 1/2" thermowell connection capped. Thermowells are available on request. See Price List for details.

\*Take-off is pitched 10° down.

## Features:

- Simplified Design
- Only One Moving Part
- Accurately Calibrated Flow Rates
- Dependable Fail-Safe Design
- Borosilicate Glass and TFE
- Construction for Optimum Corrosion Resistance and Visibility
- Explosion-Proof or General Purpose Electrical Construction



**CHEM FLOWTRONICS**

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