

# 430 SERIES REGULATORS



The 430 Series SilcoNert® 2000 treated dual stage regulators are intended for primary pressure control of reactive or corrosive calibration mixtures or pure gases in applications where an extremely inert wetted finish is required along with stable delivery pressure regardless of inlet pressure. The proprietary non-reactive amorphous Silicon finish is desired over standard 316L stainless steel and ideally suited for Hydrogen Sulfide, reduced Sulfur, Mercury, and PPM to PPB calibration mixtures.

## Typical Applications

- Reactive Calibration Standard
- Emissions Monitoring
- Hydrogen Sulfide PPM to PPB Standards
- Mercury Standards
- Sulfur Mixtures
- Corrosive Service



430 3331-01-000 shown

## Features

**CAPSULE® Seat Design** features integral 360° filtration in both stages  
**SilcoNert 2000 Treated Body** provides increased corrosion resistance  
**Cleanroom Assembly** eliminates contamination at installation  
**Front and Rear Panel-Mountable** facilitates a variety of system configurations  
**Metal-to-Metal Diaphragm Seal** prevents gas contamination

## Materials and Specifications

**Maximum Inlet Pressure (bare body):** 3000 PSIG (210 BAR); 4500 PSIG (310 BAR)

**Body:** SilcoNert 2000

**Bonnet:** SilcoNert 2000

**Gauges:** 2 in (50 mm) diameter stainless steel

**Seats:** PCTFE (first stage); PTFE (second stage)

**Filter:** SilcoNert 2000 10-micron mesh

**Temperature Range:** -40°F to 140°F (-40°C to 60°C)

**Diaphragm:** SilcoNert 2000

**Cv:** 0.1 See *flow curves attached*

**Helium Leak Integrity:**  $1 \times 10^{-9}$  scc/sec

**Internal Seals:** PTFE

**Ports (bare body):** 1/4 in FNPT

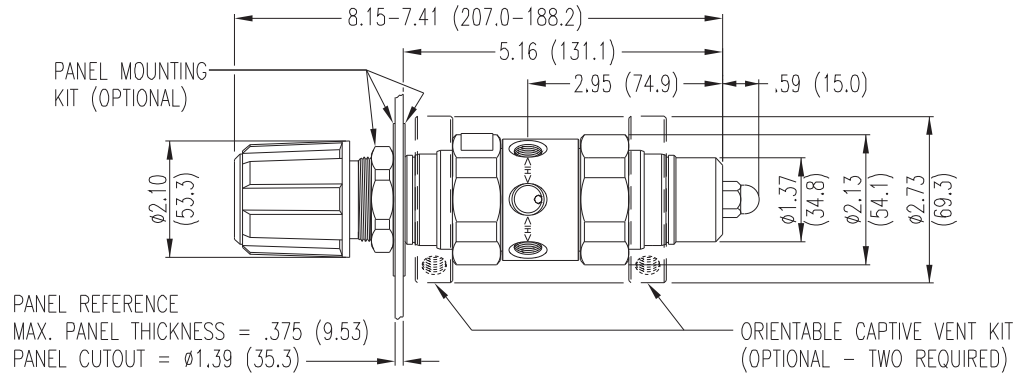
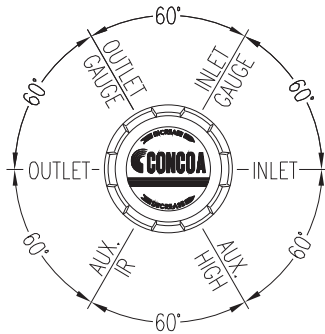
**Weight (430 3331-330):** 5.09 lbs. (2.31 kg)

**Conformances:** Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216

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## Installation Dimensions



## Ordering Information

430	A	B	C	D	-CON	Options	
Series 430	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/Gauges	Inlet Connections	Installed Options
	1: 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ -1-0-2 BAR	0: None	0: 1/4" FNPT port	0: Bare body	000: 1/4" FNPT	B: Protocol alarm station with pressure switch gauges
	2: 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -1-0-7 BAR	3: 0-4000 PSIG/ 0-275 BAR	2: 1/4" tube fitting	1: Cleanroom assembly (PSIG/kPa gauges)	TF2: 1/8" tube	C: Protocol switchover station
	3: 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	5: 0-1000 PSIG/ 0-70 BAR	3: Diaphragm valve 1/4" tube fitting	2: Cleanroom assembly (BAR/PSIG gauges)	TF4: 1/4" tube	E: Protocol alarm station with intrinsically safe transducer for hazardous environments
	4: 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-27 BAR	6: 0-300 PSIG/ 0-21 BAR	6: 1/8" tube fitting		M06: 6mm tube	H: Protocol switchover alarm station with pressure switch gauges
	7: 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -1-0-14 BAR	7: 0-400 PSIG/ 0-27 BAR	8: Diaphragm valve 1/8" tube fitting		CGA DIN 477 BS 341 and others available upon request.	J: Protocol alarm station with standard transducer for non-hazardous environments
		8: 0-6000 PSIG/ 0-415 BAR*	9: Diaphragm valve 1/4" FNPT				K: Protocol switchover alarm station with standard transducer for non-hazardous environments
		*Not available with 4500 PSIG (310 BAR) max inlet pressure.	M: 6mm tube fitting				M: Protocol station
			S: Diaphragm valve 6mm tube fitting				Q: Protocol purge station
							X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments

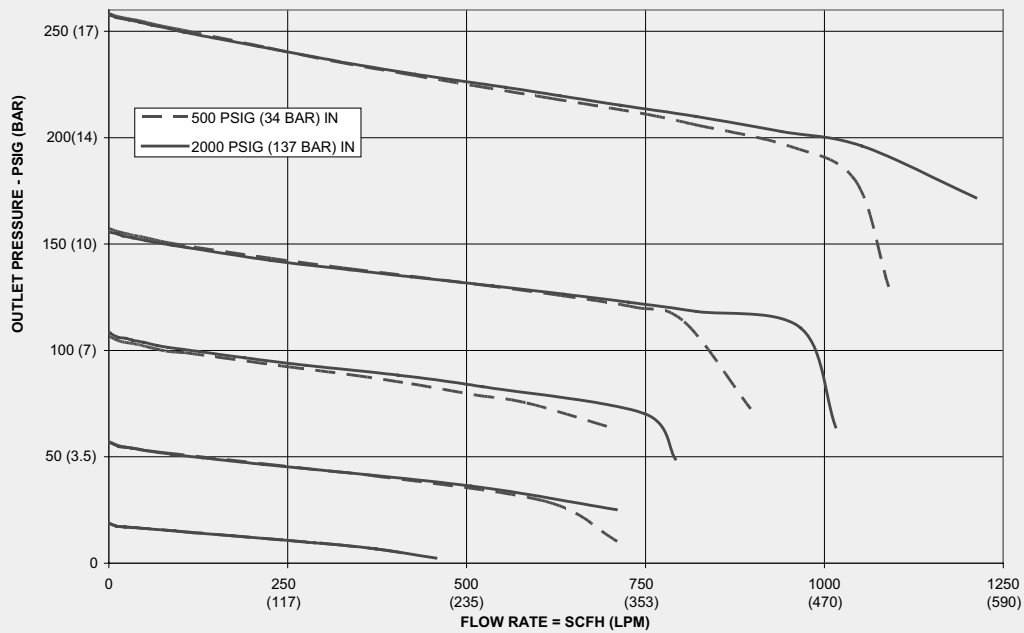
## Related Options

Part No.	Description
550 0001	Captured vent kit (2 required)
550 0002	Panel mount kit
476 0002	Helium Leak certification

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## Flow Curves for 430 Series



SilcoNe is a registered trademark of SilcoTek Corporation. Dursan is a registered trademark of SilcoTek Corporation.