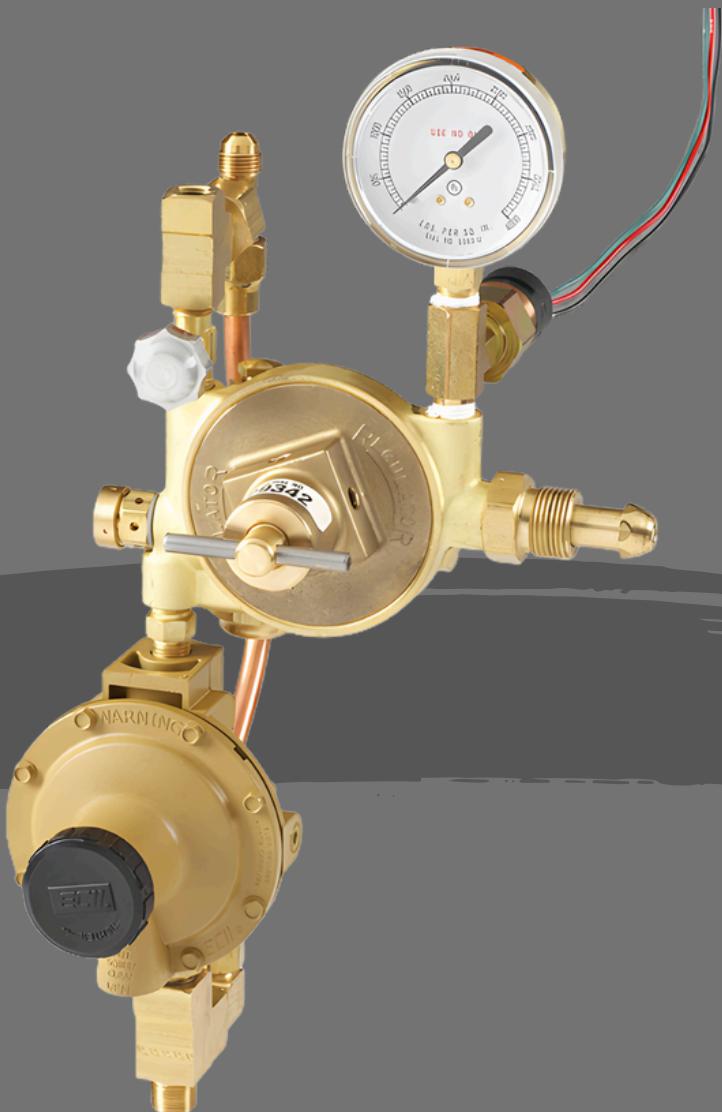


**When using inert  
gas on large power  
transformers, RegO  
inertrol regulators  
are the preferred  
choice - and  
Evergreen has them.**

# Inertrol Outfits 4286 Series, 4289 Series, & 4291 Series



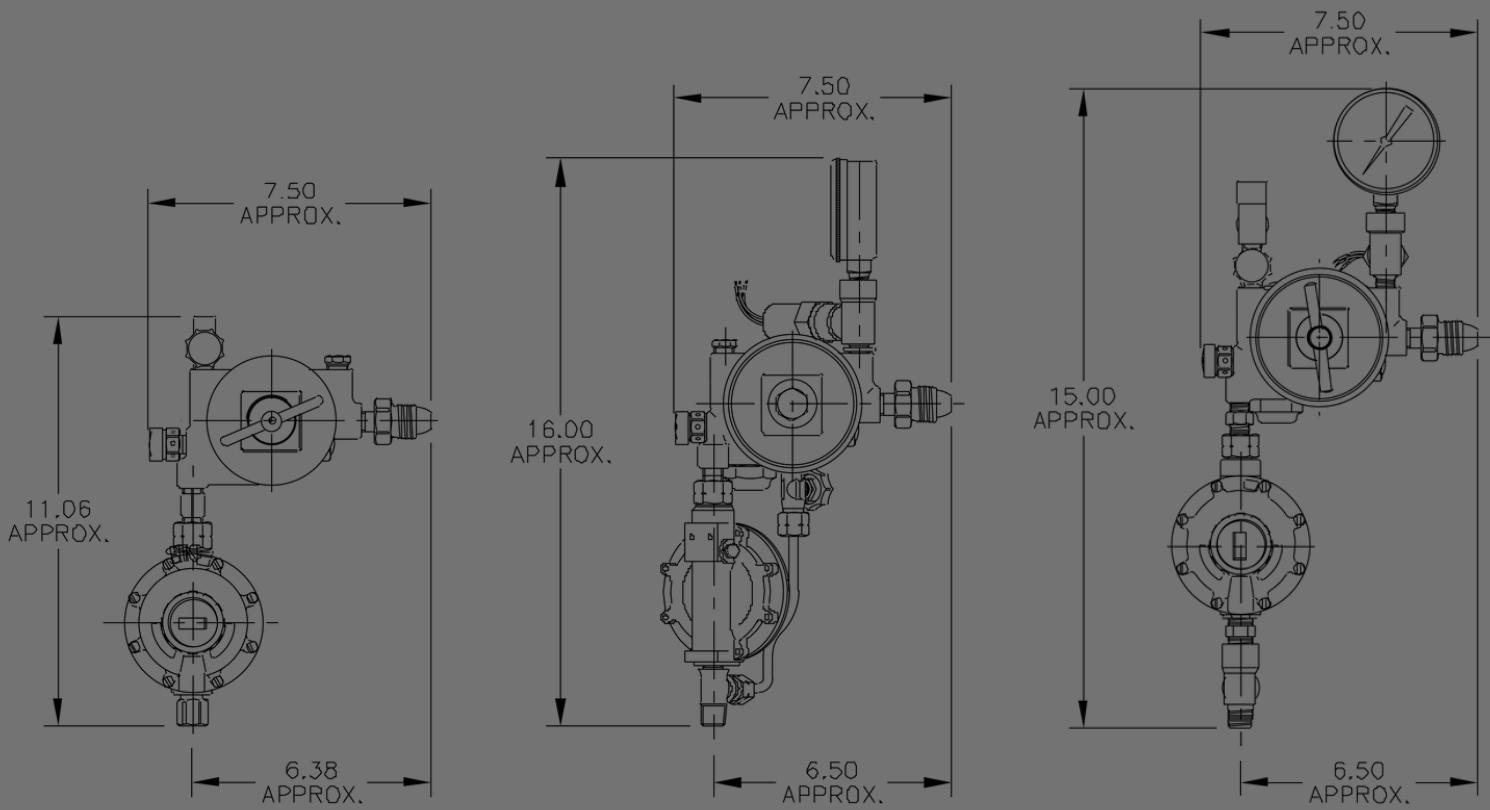
The 4286, 4289, and 4291 inertrol outfits are three-stage nitrogen regulators designed to maintain oil-filled transformer atmospheres at 0.5 PSIG.

Each inertrol outfit consists of (1) two-stage regulator connected in series to (1) highly sensitive single-stage regulator maintaining the 0.5 PSIG pressure. A built-in pressure relief valve in the third-stage regulator protects against system over-pressurization.

Inertrol units are designed for oil-filled transformers manufactured by ABB, General Electric, and Cooper Power. Some units include an alarm switch. The switch activates a customer-equipped warning device should cylinder pressure drop below 300 PSIG.

- Heavy duty brass and aluminum construction resists corrosion and provides longer life.
- 4289s incorporate special by-pass valve to allow for quick transformer filling.
- Hidden pressure adjusting screw helps protect against tampering.
- Large diameter diaphragm in third-stage regulator = sensitive and precise gas flow control.
- Maximum inlet pressure 3000 PSIG.

# Inertrol Outfits 4286 Series, 4289 Series, & 4291 Series



**4286A580**

**4289 Series**

**4291A**

Part	Gas Service	Inlet	Outlet	Alarm Gauge
4286A580	Nitrogen	CGA 580	1/8" NPT	None
4289AG	Nitrogen	CGA 580	9/16" -18 L.H.	4285-9B
4289G	Nitrogen	CGA 580	9/16" -18 L.H.	None
4291A	Nitrogen	CGA 580	3/8" NPT	4285-9B

Part	2Stage Reg Part	3Stage Reg Part	Transformer Mfg
4286A580	4286A-2NW	LV4286-10-8	ABB, Inc.
4289AG	4289A-2G	LV4289-10	General Electric
4289G	4289A-2G	LV4289-10	General Electric
4291A	4291B-2	LV4286-10-8	Cooper Power

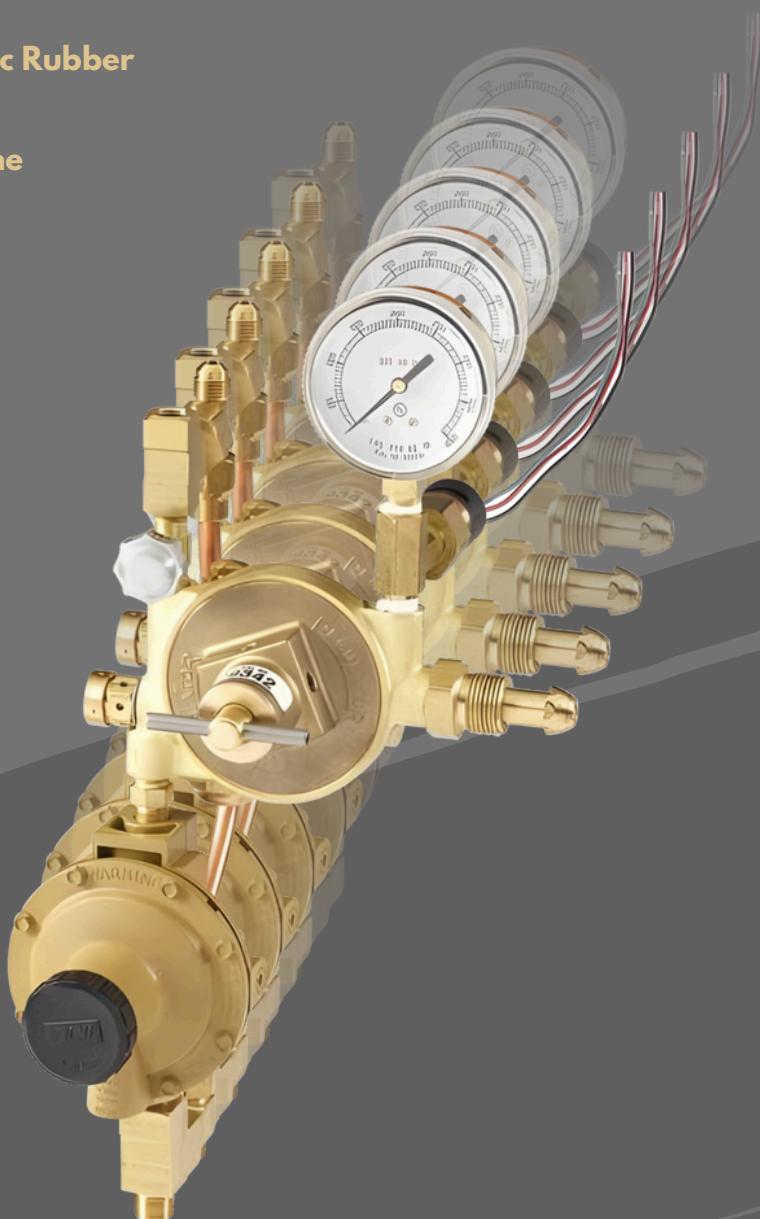
# Inertrol Outfits 4286 Series, 4289 Series, & 4291 Series

## Two-Stage

<b>Body</b>	<b>Brass</b>
<b>Bonnet</b>	<b>Brass</b>
<b>Diaphragms</b>	<b>Synthetic Rubber</b>
<b>1st Stage Seat Disc</b>	<b>Nylon</b>
<b>2nd Stage Seat Disc</b>	<b>Neoprene</b>

## Three-Stage

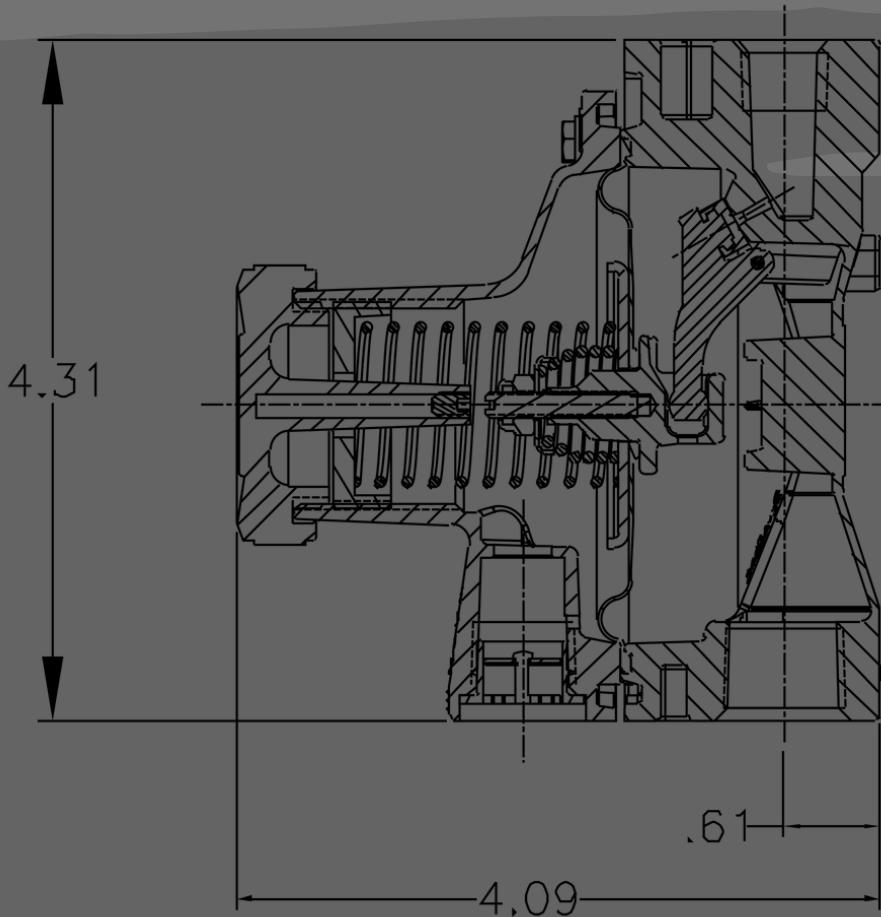
<b>Body</b>	<b>Zinc</b>
<b>Bonnet</b>	<b>Zinc</b>
<b>Seat Disc</b>	<b>Buna N</b>
<b>Diaphragm</b>	<b>Buna N</b>



## Low Pressure Regulators 4286-10 Series & 4289-10 Series

The 4286 and 4289 third-stage inertrol regulators are low pressure & designed for secondary regulation of gaseous nitrogen on electrical transformer systems. These are factory preset at 14" to 15" water column delivery pressure, with an inlet pressure of 5 to 10 PSIG.

- Large diaphragm allows for sensitive and accurate (low) pressure control.
- Integral relief valves (except on 4289-10).
- Zinc body and bonnet resist corrosion, provide longer life.
- Adjusting screw concealed by cap, prevents tampering.
- Operating temperature range is -40°F to +160°F.



# Low Pressure Regulators 4286-10 Series & 4289-10 Series



<b>Body</b>	<b>Zinc</b>
<b>Bonnet</b>	<b>Zinc</b>
<b>Diaphragm</b>	<b>Buna N</b>
<b>Seat Disc</b>	<b>Buna N</b>
<b>Spring</b>	<b>Steel</b>

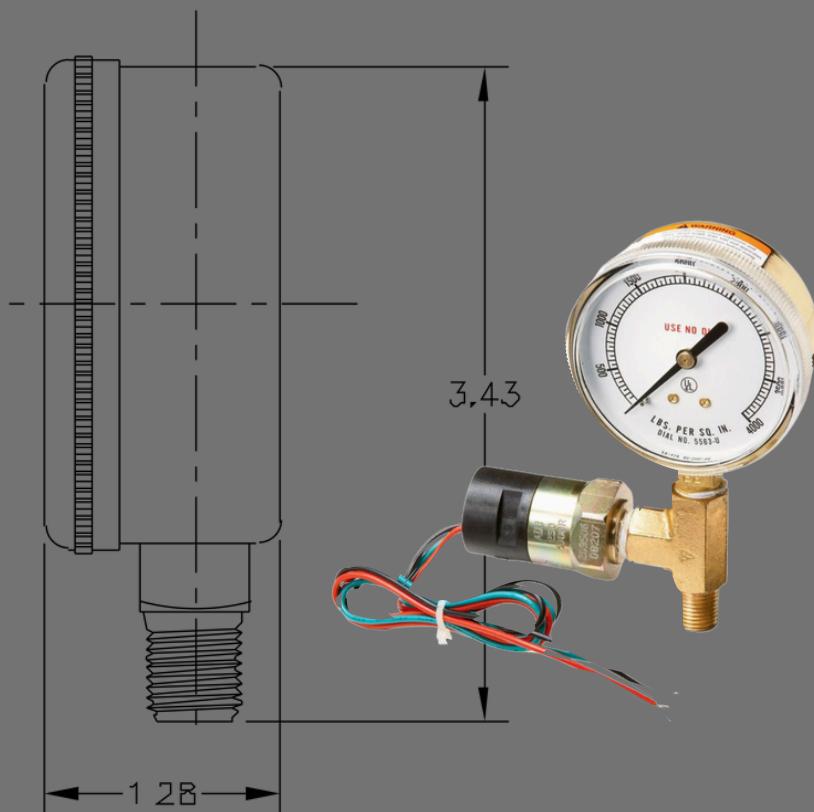
<b>Part Number</b>	<b>Inlet (NPT)</b>	<b>Outlet (NPT)</b>
<b>LV4286-10-5</b>	<b>1/4"</b>	<b>1/2"</b>
<b>LV4286-10-8</b>	<b>1/4"</b>	<b>1/2"</b>
<b>LV4289-10</b>	<b>1/4"</b>	<b>1/2"</b>

<b>Part Number</b>	<b>Delivery Pressure Setting</b>	<b>Relief Valve Setting</b>
<b>LV4286-10-5</b>	<b>14"-15" w. c.</b>	<b>5 PSIG</b>
<b>LV4286-10-8</b>	<b>14"-15" w. c.</b>	<b>8 PSIG</b>
<b>LV4289-10</b>	<b>14"-15" w. c.</b>	<b>None</b>

## Alarm Gauges 4285-9B

The 4285-9B inertrol alarm gauges are designed to alert the user when pressure has fluctuated  $\pm 90$  PSIG from the 300 PSIG factory setting. Under these conditions, electrical contacts in the switch will close and set off an alarm system (user-furnished).

- Solid brass gauge casing resists corrosion and provides longer life.
- Equipped with a heavy-duty three-wire electrical cable (36").
- Each gauge is factory preset at 300 PSIG, then sealed to prevent tampering.
- Electrical circuit is rated for a maximum of 3 AMPS at 460 volts AC.



Part Number	Inlet	Diameter	Pressure Range	Adjustable	Alarm Furnished
4285-9B	M.NPT 1/4"	2 1/2"	(PSIG) 0 - 4000	No	None