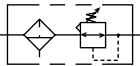
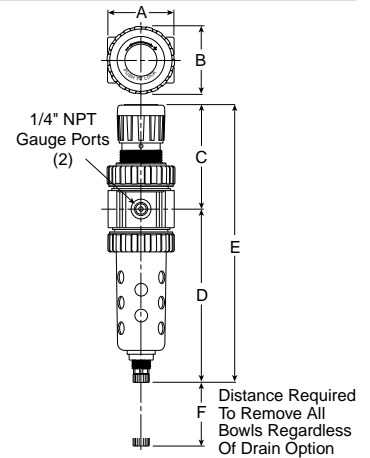


## 27E Filter / Regulator – Precision



### Features

- Excellent water removal efficiency.
- High flow.
- Fine adjustment sensitivity.
- Good repeatability and minimal pressure drop.
- Modular with 05 Series FRL
- Non-Rising removable adjustment knob.
- High Flow: 20 SCFM<sup>§</sup>



Port Size	NPT	
	Twist Drain	
Poly Bowl <sup>†</sup> / Sight Gauge		
1/4"	<b>27E12A13AB</b>	
3/8"	<b>27E22A13AB</b>	
Metal Bowl / Sight Gauge		
1/4"	<b>27E14A13AB</b>	
3/8"	<b>27E24A13AB</b>	

27E Filter / Regulator Dimensions		
A	B	C
2.00 (51)	2.06 (52)	3.16 (80)
D <sup>†</sup>	E <sup>†</sup>	F
5.35 (136)	8.51 (216)	1.77 (45)

Inches (mm)  
<sup>†</sup> With Twist Drain or Auto Pulse Drain

Standard part numbers shown bold. For other models refer to ordering information below.

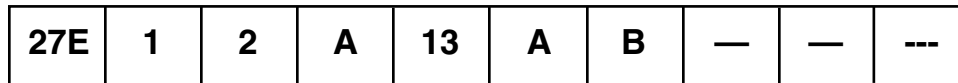
<sup>‡</sup> For Polycarbonate Bowl, see Caution on page A2.

<sup>§</sup> SCFM = Standard cubic feet per minute at 150 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

**⚠ WARNING**

**Product rupture can cause serious injury.  
 Do not connect regulator to bottled gas.  
 Do not exceed maximum primary pressure rating.**

### Ordering Information



Port Size
1 1/4 Inch
2 3/8 Inch

Elements
A 40 Micron
B 5 Micron
Z Adsorber

Relief
A Relieving

Port Type	
Blank	NPT
1*	BSPP
2	BSPT

\* 1/4 & 3/8 inch meet ISO 1179-1 Standard.

Preset / Pressure Limited	
Blank	None
XXX*	Preset Pressure
XXX*	Pressure Limited

Bowl Options	
<u>Polycarbonate Bowl</u>	<u>Metal Bowl</u>
1 Twist Drain	3 Twist Drain
2 Metal Bowl Guard / Twist Drain	4 Sight Gauge / Twist Drain
N Auto Float Drain	R Auto Float Drain
P Metal Bowl Guard / Auto Pulse Drain	T Sight Gauge / Auto Pulse Drain

Pressure Range	
<u>Without Gauge</u>	
10	30 PSIG
11	60 PSIG
12	15 PSIG
13	125 PSIG
14 <sup>§</sup>	200 PSIG

<sup>§</sup> Requires Metal Bowl

**Spring Type by Preset / Limited Pressure:**  
 For Preset / Limited Pressure 10 to 25 use 30 PSI Spring  
 For Preset / Limited Pressure 26 to 50 use 60 PSI Spring  
 For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

Engineering Level
B Current

Options	
Blank	No Options
L <sup>†</sup>	Preset Non-Adjustable
P <sup>†</sup>	Preset Adjustable
S <sup>†</sup>	Pressure Limiter Max. Adjustable
T <sup>†</sup>	Pressure Limiter Max. Non-Adj.

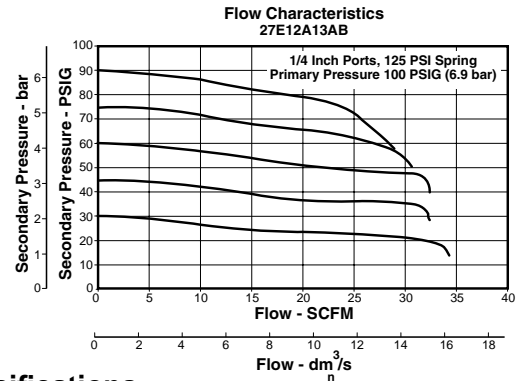
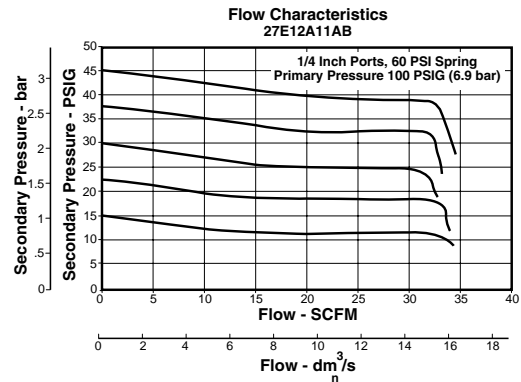
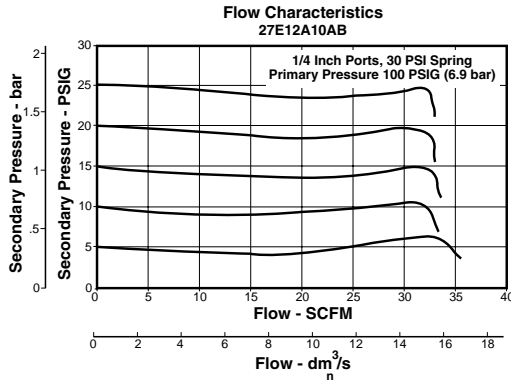
<sup>†</sup> Inlet Pressure is 100 PSIG. For other pressures, contact factory.

\* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory.  
 (Example: 065 = 65 PSIG)

**BOLD ITEMS ARE MOST POPULAR.**



**Technical Information**



**CAUTION:**

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

**27E Filter / Regulator Kits & Accessories**

<b>Bowl Guard Kit</b> .....	PS905P
<b>Bowl Kits –</b>	
Poly Bowl – Automatic Pulse Drain .....	PS995P
Twist Drain .....	PS932P
Metal Bowl – Automatic Pulse Drain .....	PS997P
Twist Drain .....	PS934P
Sight Gauge / Automatic Pulse Drain .....	PS996P
Sight Gauge / Twist Drain .....	PS935P
<b>Control Knob</b> .....	P0442001
<b>Drain Kit – Automatic Pulse Drain</b> .....	PS998P
Semi-Auto Drain .....	PS511P
Twist Drain .....	PS512P
Push 'N' Drain .....	PS513P
<b>Filter Element Kits – 40 Micron</b> .....	PS901P
5 Micron .....	PS902P
Adsorber .....	PS931P
<b>Sight Gauge Kit</b> .....	PS914P
<b>Gauges – 1-1/2" Dial Face</b>	
30 PSIG (0 to 2.1 bar) .....	K4515N14030
60 PSIG (0 to 4.1 bar) .....	K4515N14060
160 PSIG (0 to 11.0 bar) .....	K4515N14160
300 PSIG (0 to 20.0 bar) .....	K4515N14300
<b>2" Dial Face</b>	
60 PSIG (0 to 4.1 bar) .....	K4520N14060
160 PSIG (0 to 11.0 bar) .....	K4520N14160
300 PSIG (0 to 20.0 bar) .....	K4520N14300
<b>Mounting Bracket Kit (Includes Panel Mount Nut)</b> .....	PS963P
<b>Panel Mount Nut – Metal</b> .....	PS964P
<b>Springs – 1-15 PSIG Range</b> .....	P04428
1-30 PSIG Range .....	P04427
1-60 PSIG Range .....	P04426
2-125 PSIG Range .....	P04425
2-200 PSIG .....	P02934
<b>Regulator Service Kit</b> .....	PS907P
<b>Bonnet Assembly Kit</b> .....	PS910P

**Specifications**

<b>Bowl Capacity</b> .....	2.0 Ounces
<b>Bleed Rate</b> .....	2.0 SCFH
<b>Gauge Ports (2)</b> .....	1/4 Inch
<b>Effect of Supply Pressure Variation –</b>	
0.5 PSIG (0.04 bar) for 25 PSIG (1.7 bar) change in P <sup>1</sup>	
<b>Flow Capacity –</b>	
33 SCFM (15.6 dm <sup>3</sup> /s) @ 100 PSIG (6.9 bar) P <sup>1</sup>	
and 20 PSIG (1.4 bar) P <sup>2</sup>	
<b>Sump Capacity</b> .....	0.9 Ounce
<b>Port Threads</b> .....	1/4, 3/8 Inch
<b>Pressure &amp; Temperature Rating –</b>	
Polycarbonate Bowl – 0 to 150 PSIG (0 to 10.3 bar)	
32°F to 125°F (0°C to 52°C)	
Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)	
32°F to 175°F (0°C to 80°C)	
Automatic Pulse Drain – 10 to 150 PSIG (0.7 to 10.3 bar)	
<b>Relief Capacity –</b>	
0.5 SCFM (0.24 dm <sup>3</sup> /s) @ 5 PSIG (0.4 bar) increase in P <sup>2</sup>	
<b>Repeatability</b> .....	±.14 PSIG (±0.0097 bar)
<b>Response –</b> .....	510 ms
The valve will open to full flow and fill a volume of 100 in <sup>3</sup>	
<b>Weight</b> .....	1.35 lb. (0.6 kg)

**Materials of Construction**

<b>Adjusting Stem</b> .....	Steel
<b>Body</b> .....	Zinc
<b>Bonnet, Internal Parts</b> .....	Plastic
<b>Bowl Guard</b> .....	Steel
<b>Collar</b> .....	Plastic
<b>Diaphragm</b> .....	Nitrile
<b>Drain</b> .....	Plastic
<b>Filter Elements –</b>	
40 Micron (Standard) .....	Plastic
5 Micron (Optional) .....	Plastic
Adsorber (Optional) .....	Activated Charcoal
<b>Knob</b> .....	Plastic
<b>Poppet</b> .....	Brass
<b>Seals</b> .....	Nitrile
<b>Sight Gauge</b> .....	Polyamide (Nylon)
<b>Springs – Poppet &amp; Control</b> .....	Steel

E
Introduction
27 Series
Dial Regulators
Precision Regulators
Precision Relief Valve
Precision Vacuum Regulator
Precision Filter / Regulator
Input Signal Amplifier