

# R14, R16

# Miniature, Preset, Nonadjustable Pressure Regulator Water and Compressed Air Service 1/8" or 1/4" PTF Port Sizes

- Non-relieving models for air and water service
- Relieving models for air service allow reduction of outlet pressure even when the system is dead-ended
- R14 has aluminum body and bonnet •
- R16 has brass body and bonnet
- Factory preset, tamper resistant pressure setting
- Non-repairable



# Ordering Information. Models listed are relieving type for compressed air service with PTF threads and with gauge ports

Port	Model	Flow <sup>†</sup> scfm (dm <sup>3</sup> /s)	Flow <sup>††</sup> U.S. gpm (Ipm)	Weight Ib (kg)					
1/8" PTF	R14-100-R**A	12 (5.7)	1.3 (4.9)	0.2 (0.09)					
1/8" PTF	R16-100-R**A	12 (5.7)	1.3 (4.9)	0.7 (0.32)					
1/4" PTF	R14-200-R**A	12 (5.7)	1.3 (4.9)	0.2 (0.09)					
1/4" PTF	R16-200-R**A	12 (5.7)	1.3 (4.9)	0.7 (0.32)					

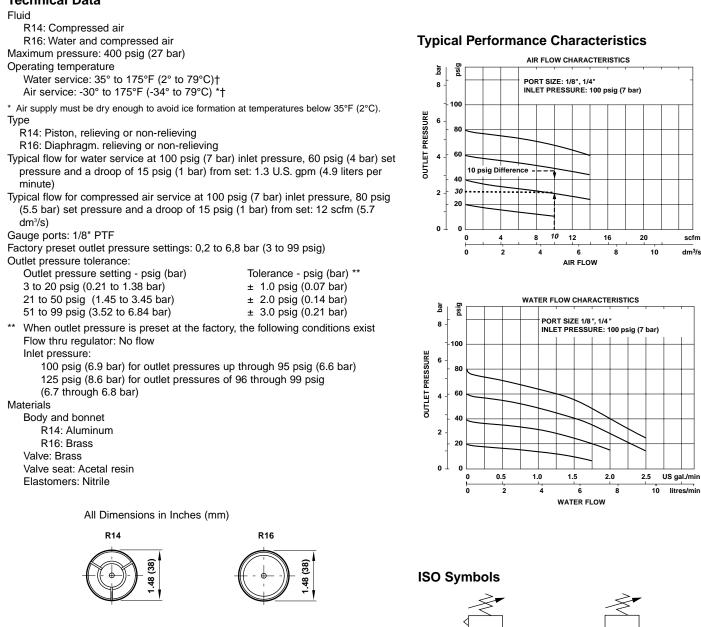
Approximate flow with 100 psig (7 bar) inlet pressure, 80 psig 5.5 bar() set pressure and a 15 psig (1 bar) droop from set. +

++ Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models		<b>R★★</b>	- * * 7	★ - ★	$\star \star \star$		
Type/Service	Substitute					Threads	Substitute
Piston; air service only	14					PTF	A
Diaphragm; air and water service	16						I
Port Size	Substitute						
1/8″	1						
1/4"	2						
Gauge ports in body	Substitute						
With gauge ports	00						
Without gauge ports	01						
Diaphragm	Substitute						
Relieving	R						
Non relieving	N						
** The <i>8th</i> and <i>9th</i> positions of the mode modified to allow for inlet pressures of							
<ol> <li>Write down the desired outlet pressure</li> <li>Modifications for inlet pressures other If inlet pressure exceeds 100 psig*, ad EXAMPLE: If the inlet pressure is 18</li> </ol>	than 100 psig: d 1 psig to the desi	ed outlet pressure fo	r each 20 ps	sig the inle	t pressure is ab	ove 100 psig*.	fied outlet pressure setting (
34 psig. If inlet pressure is less than 100 psig*, EXAMPLE: If the inlet pressure is 6 pressure setting of 28 psig.							a 30 for a modified outlet
<ol> <li>Modifications for flows other than zero: Determine the pressure drop from the EXAMPLE: If the desired outlet pres pressure (30 psig) at the desired flo example in Step 2 above, add 10 to 125 psig for outlet pressure settings of 95 thi</li> </ol>	sure is 30 psig at a w (10 scfm) and o the 34 to obtain a	flow of 10 scfm, add tlet pressure (40 psi	l 10 to the m g) at no flow	odified ou See dash	tlet pressure set ed lines on the	ting. The quantity of 10 is the differ air flow curve for example. Followin	ig through with the first



### **Technical Data**



† R16 brass bonnet & body combination max temperature 200°F

1.48 (38)

<u>0.40 (1</u>0) 2.58 (65)

# See Section ALE-24 for Accessories

2.28 (58)

0.40 (10)

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1.48 (38)

Relieving

Non relieving