Specialty Regulators

Specialty regulators for air or water, tube connection, factory preset pressure, large diaphragm, high relief flow, and field adjustable pressure limits, 1/8" to 1-1/4".

Contents

Contents	
R06 Air of Water Regulator 1/8" and 1/4" ports	ALE-6-2
11-044 Air or Water 1/4" OD tube ports	ALE-6-4
R91 Air or Water 1/4" ports	ALE-6-6
R14 and R16 Air or Water, Factory Preset, Non-Adjustable	
1/8" and 1/4" ports	ALE-6-8
R43 Air or Water 1/4", 3/8", and 1/2" ports	.ALE-6-10
11-009 Air or Water 3/4" and 1" ports	.ALE-6-12
11-002 Air Only, Large Diaphragm 1/4" and 1/2" ports	.ALE-6-14
R24 Air Only, High Relief Flow, Field Adjustable pressure limit	
1/4" and 1-1/8" ports	.ALE-6-16









R06

11-044

R91

R14 and R16



R43



11-009







R24



Miniature Brass Body Regulator Water and Compressed Air Service 1/8" and 1/4" PTF Port Sizes

- Compact design, corrosion resistant construction
- Brass body with choice of plastic or brass bonnet
- Plastic bonnet equipped with low torque, non-rising pressure adjusting knob. Snap action knob locks pressure setting when pushed in
- Brass bonnet equipped with pressure adjusting screw
- 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
- Can be disassembled without the use of tools or removal from the air or water line



Ordering Information. Models listed include PTF threads, plastic bonnet with knob adjustment, non-relieving diaphragm, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range⁺, and without gauge.

Port	Model	Flow [*] scfm (dm ³ /s)	Flow ^{**} gpm (lpm)	Weight Ib (kg)
1/8" PTF	R06-121-NNKA	12 (5.7)	1.3 (4.9)	0.2 (0.09)
1/4" PTF	R06-221-NNKA	12 (5.7)	1.3 (4.9)	0.2 (0.09)

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

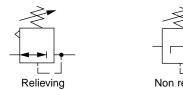
** Approximate flow with100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models

		<u> R 0 6</u>]- ★ ★ ★ + + ★ ★	
Port Size	Substitute	Threads	Substitute
1/8″	1	PTF	А
1/4"	2		
		Outlet Pressure Adjustment Range†	Substitute
Bonnet	Substitute	1 to 10 psig (0.1 to 0.7 bar)	А
Plastic	21	5 to 50 psig (0.3 to 3.5 bar)	E
Brass	22	5 to 100 psig (0.3 to 7 bar)	К
	·		
Diaphragm	Substitute	Gauges	Substitute
Relieving	R	With	G
Non relieving	N	Without	N

† Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

ISO Symbols







Fluid: Water and compressed air
Maximum pressure: 400 psig (27 bar)
Operating temperature

Water service: 35° to 150°F (2° to 65°C)
Air service: -30° to 150°F (-34° to 65°C) *

* Air supply must be dry enough to avoid ice formation at temperatures

below 35°F (2°C).

Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set

pressure and a droop of 15 psig (1 bar) from set: 1.3 gpm (4.9 lpm)

Typical flow for compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 12 scfm (5.7 dm³/s) Gauge ports: 1/8" PTF

Materials

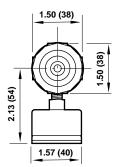
erials Body: Brass Bonnet Standard: Acetal resin

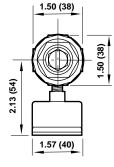
Optional: Brass Valve: Brass/nitrile Valve seat: Acetal resin

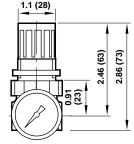
Elastomers: Nitrile

All Dimensions in Inches (mm)

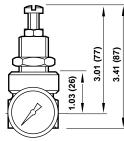
Panel mounting hole diameter: Models with plastic bonnet: 1.19" (30 mm) Models with brass bonnet: 0.81" (21mm) Maximum panel thickness: 0.25" (6 mm)





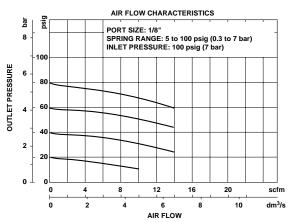


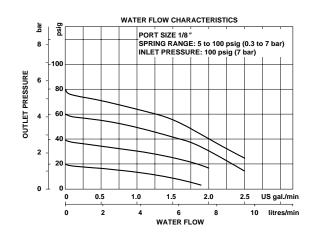
Models with Plastic Bonnet



Models with Brass Bonnet







Service Kits

Item	Туре	Part number
Service kit	Relieving	3407-18
Sel VICE KIL	Non relieving	3407-17

Service kit includes slip ring, diaphragm, standard valve seat with o-ring, valve, valve spring.





11-044

Water and Compressed Air Service Pressure Regulator 1/4" Tube Connection

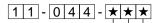
- Non-relieving models.
- Acetal plastic, corrosion resistant construction
- Low torque, non-rising adjusting knob.
- Snap action knob locks pressure setting when pushed down.
- Designed for use with deionized water and potable water systems. Plastics and metals in contact with fluid are approved by the National Sanitation Foundation (NSF) for use in potable water systems. Elastomers are food grade.
- Can be disassembled without the use of tools or removal from the air or water line.



Ordering Information. Models listed include non-relieving diaphragm, and 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range [†].

Port Connection	Model	Flow [*] scfm (dm ³ /s)	Flow** U.S. gpm (Ipm)	Weight Ib (kg)
1/4" tube nut and ferrule	11-044-003	3.0 (1.4)	0.7 (2.65)	0.16 (0.08)

Alternative Models



Outlet Pressure Adjustment Range†	Substitute
1 to 10 psig (0.1 to 0.7 bar)	001
2 to 50 psig (0.3 to 3.5 bar)	002
5 to 100 psig (0.3 to 7 bar)	003

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 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.

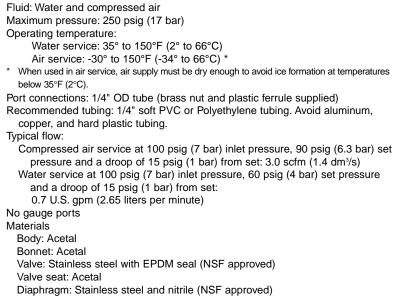
† Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

ISO Symbols



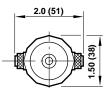
Non relieving

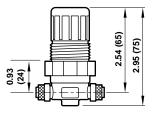




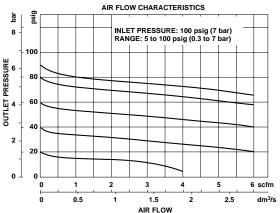
All Dimensions in Inches (mm)

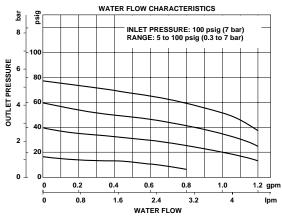
Panel mounting hole diameter: 1.19" (30 mm) Maximum panel thickness: 0.25" (6 mm)











Service Kits

Туре	Part number
Non-relieving	3407-59

Service kit includes slip ring, valve seat, valve, valve spring, and diaphragm.





Water or Compressed Air Pressure Regulator 1/4" Port Size

- Bonnet and body made from acetal plastic.
- R91W designed for use with deionized water and potable water systems. Plastics and metals in contact with fluid are approved by the National Sanitation Foundation (NSF) or the Food And Drug Administration (FDA) for use in potable water systems. Elastomers are food grade. Non relieving models only.
- R91G designed for use with non-potable water and compressed air systems. Non relieving and relieving models.
- Low torque, non-rising adjusting knob.
- Snap action knob locks pressure setting when pushed down.
- Can be disassembled without the use of tools or removal from the air or water line.



Ordering Information. Models listed include PTF threads, knob adjustment, non relieving diaphragm, 5 to 125 psig (0.3 to 8.6 bar) outlet pressure adjustment range⁺, and without gauge.

Inlet Port	Application	Model	Flow [*] scfm (dm ³ /s)	Flow ^{**} gpm (lpm)	Weight Ib (kg)
1/4"	Industrial air and non-potable water	R91G-2AK-NLN	24 (11)	1.75 (6.6)	0.15 (0.07)
1/4"	Potable water and deionized water	R91W-2AK-NLN	24 (11)	1.75 (6.6)	0.15 (0.07)

Alternative Models

Alternative Models		R	9 1	* - 7	* *	* *	- [*
Application	Substitute							
Industrial air, non-potable water	G							
Potable water, deionized water	W							
Port Size	Substitute							
1/4"	2							
Threads	Substitute							
PTF	A							
ISO Rc taper	В							
ISO G parallel	G							
Adjustment	Substitute							
Knob	K							

Gauge	Substitute			
With	G ††			
Without				
Outlet Pressure Adjustment Ranget				
5 to 50 psig (0.3 to 3.5 bar)	Substitute E			
5 to 125 psig (0.3 to 8.6 bar)	L			
Diaphragm	Substitute			
Non relieving	N			
Relieving ¶	R			

Knob

Approximate flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 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.

Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges. t tt Gauge with NSF approved materials not available.

Relieving diaphragm only available with the R91G regulator. ¶.

ISO Symbols

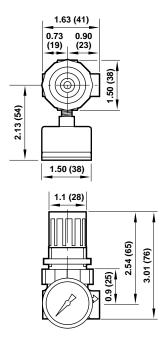






Fluid R91G: Compressed air and non-potable water R91W: Potable water, deionized water Maximum pressure: 150 psig (10 bar) bar psic Operating temperature 8 Water service: 35° to 125°F (2° to 52°C) Air service: 0° to 125°F (-20° to 52°C) * 100 * When used in air service, air supply must be dry enough to avoid ice formation at temperatures OUTLET PRESSURE 6 below 35°F (2°C). 80 Typical flow for compressed air service at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 24 scfm 60 (11 dm³/s). Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set 40 pressure and a droop of 15 psig (1 bar) from set: 1.75 US gpm per minute 2 (6.6 liters) 20 Gauge ports: 1/8 PTF with PTF main ports 0 0 R1/8 with ISO Rc main ports 0 R1/8 with ISO G main ports Materials Body and bonnet: Acetal bar psig Valve R91G: Brass/nitrile 4 R91W: Stainless steel/food grade EPDM 50 Valve seat: Acetal OUTLET PRESSURE Valve seat o-ring 3 40 R91G: Nitrile R91W: Food grade EPDM 30 2 Diaphragm R91G: Acetal/nylon inserted nitrile 20 R91W: Acetal/nylon inserted nitrile, food grade 1 Gauge port plugs: Polypropylene (furnished only with PTF-ported units)

All Dimensions in Inches (mm) Panel mounting hole diameter 1.19" (30 mm) Maximum panel thickness 0.25" (6 mm)



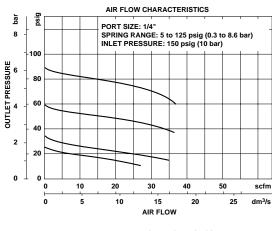
Service Kits

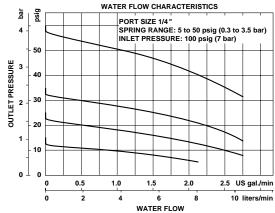
Item	Туре	Part number
Service kit	R91W, non relieving	3407-93
	R91G, non relieving	3407-94
	R91G, relieving	3407-95

Service kit contains slip ring, diaphragm, valve seat with o-ring, valve, and valve spring.



Typical Performance Characteristics







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

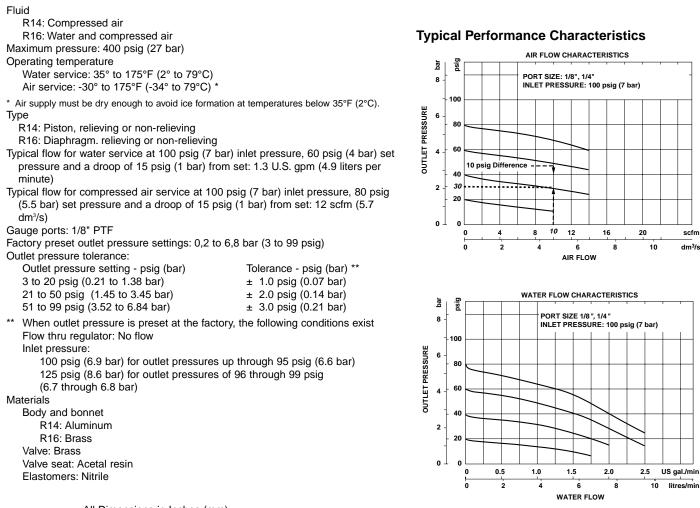
Port	Model	Flow [†] scfm (dm ³ /s)	Flow ^{††} U.S. gpm (Ipm)	Weight Ib (kg)				
1/8" PTF	R14-100-R**A	12 (5.7)	1.3 (4.9)	0.2 (0.09)				
1/8" PTF	R16-100-R**A	12 (5.7)	1.3 (4.9)	0.7 (0.32)				
1/4" PTF	R14-200-R**A	12 (5.7)	1.3 (4.9)	0.2 (0.09)				
1/4" PTF	R16-200-R**A	12 (5.7)	1.3 (4.9)	0.7 (0.32)				

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.

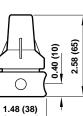
Alternative Models		R * * - * *	★ - ★ ★ 7	* *	
Type/Service	Substitute			Threads	Substitute
Piston; air service only	14			PTF	A
Diaphragm; air and water service	16				I
Port Size	Substitute				
1/8″	1				
1/4"	2				
Gauge ports in body	Substitute				
With gauge ports	00				
Without gauge ports	01				
Diaphragm	Substitute				
Relieving	R				
Non relieving	N				
34 psig. If inlet pressure is less than 100 psig*,	ther than 100 psig and the flow throug than 100 psig: d 1 psig to the desire 0 psig, add 4 to the subtract 1 psig from 0 psig, subtract 2 fro appropriate flow cur- sure is 30 psig at a f w (10 scfm) and out	g, and for flows other than a her regulator. EXAMPLE: 30 and outlet pressure for each 20 desired outlet pressure. Follow in the desired outlet pressure from the desired outlet pressure from the desired outlet pressure we above. Add the pressure dr low of 10 scfm, add 10 to the let pressure (40 psig) at no flow for flow science.	zero. Insert the m psig outlet press psig the inlet press ving through with or each 20 psig th . Following throu- roop to the modifie modified outlet p ww. See dashed lin	nodified outlet pressure setting in per sure at 10 scfm flow. ssure is above 100 psig*. In the example in step 1, add 4 to 30 he inlet pressure is below 100 psig* gh with the example in step 1, subi- d outlet pressure setting. ressure setting. The quantity of 10 hes on the air flow curve for example	ositions 8 and 9 as described below.) for a modified outlet pressure setting tract 2 from 30 for a modified outlet is the difference between the outlet le. Following through with the first





All Dimensions in Inches (mm)

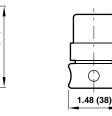






2.28 (58)

0.40 (10)

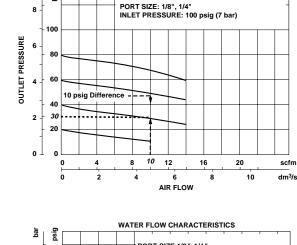


ISO Symbols





US gal./min





Substitute

Ν

Water and Compressed Air Service Pressure Regulator 1/4", 3/8" and 1/2" Port Sizes

- Non-relieving models
- Brass body, corrosion resistant construction
- Balanced valve minimizes effects of inlet pressure variations on outlet pressure
- T-bar adjustment standard, nonrising knob adjustment optional
- Full flow gauge ports can be used as auxiliary outlets
- Panel mounting nut standard
- Can be disassembled without the use of tools or removal from the air or water line.



Ordering Information. Models listed have T-handle adjustment, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*, and PTF threads. A gauge is not included.

Port	Model	Flow [†] U.S. gpm (lpm)	Weight Ib (kg)
1/4"	R43-201-NNLA	6 (23)	2.4 (1.09)
3/8"	R43-301-NNLA	6 (23)	2.4 (1.09)
1/2"	R43-406-NNLA	9 (34)	2.4 (1.09)

 $|\mathsf{R}|4|3|$ - \star \star \star - \star \star \star

Alternative Models

Port Size	Substitute
1/4 "	2
3/8″	3
1/2"	4

Adjustment	Substitute
Knob	00
T-handle with 1/4" and 3/8" ports	01
T-handle with 1/2" ports	06

Diaphragm	Substitute	
Non relieving	N	

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

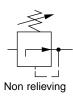
PTF	A
ISO Rc taper	В
ISO G parallel	G
Outlet Pressure Adjustment Range*	Substitute
5 to 50 psig (0.3 to 3.5 bar)	E
5 to 125 psig (0.3 to 8.6 bar)	L
15 to 250 psig (1 to 17 bar)	S
Gauges	Substitute
With	G

 \dagger Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

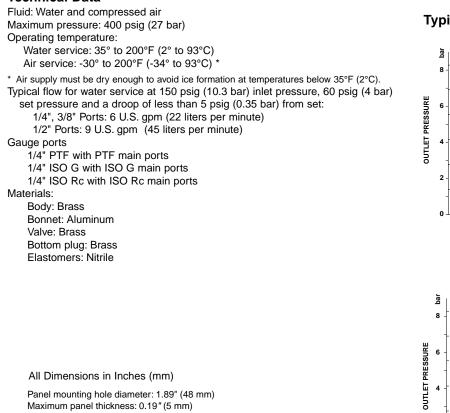
Threads

Without

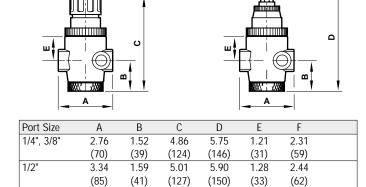
ISO Symbols



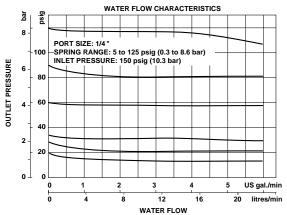


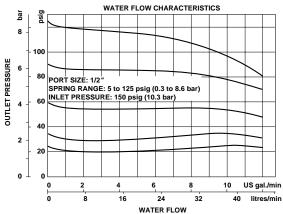






Typical Performance Characteristics





Service Kits

Item	Туре	Part number		
Service kit	For 1/4" and 3/8" ported units	5298-03		
Service Kit	For 1/2" ported units	5298-10		
Service kit inclu	Service kit includes diaphragm, o-rings, valve, valve spring.			





Water and Compressed Air Service Pressure Regulator 3/4", 1" Port Sizes

- Non-relieving models
- Brass body, corrosion resistant construction
- Balanced valve minimizes effects of inlet pressure variations on outlet pressure
- T-bar adjustment standard, screw adjustment optional
- Large diaphragm provides accurate and quick response to changes in line pressure and varying flow demands
- Can be disassembled without removal from the air or water line.



Ordering Information. Models listed have PTF threads, T-bar adjustment, non-relieving diaphragm, and 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*. A gauge is not included.

Port Size	Model Number	Flow [†] U.S. gpm (lpm)	Weight lbs (kg)
3/4"	11-009-065	27.5 (104)	3.54 (7.8)
1"	11-009-081	27.5 (104)	3.40 (7.5)

|1|1|-|★|0|9|

*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges. † Typical flow with 100 psig (6.9 bar) inlet pressure, 60 psig (4 bar) set pressure and 15 psig (1 bar) droop from set.

Alternative Models

Threads	Substitute	
PTF	0	
ISO G parallel	8	
ISO G Rc	9	

-		
	Option	Substitute
	Screw adjustment	7G
	Mounting bracket assembled to unit	1D
	With Course	Cubatituta
	With Gauge	Substitute
	3/4" Ported Unit	073
	1" Ported Unit	089

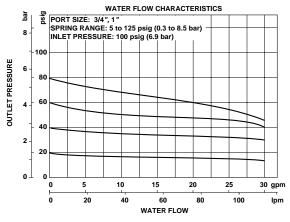
ISO Symbols





Fluid: Water and compressed air Maximum pressure: 400 psig (28 bar) Operating temperature Water service: 35° to 200°F (2° to 93°C) Air service: -30° to 200°F (-34° to 93°C) * * Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Typical flow at 100 psig (6.9 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set: 27.5 U.S. gpm (104 liters per minute) Gauge ports: 1/8" PTF with PTF main ports G1/8 with ISO G main ports Rc1/4 with ISO Rc main ports Materials Body: Brass Bonnet: Aluminum and steel Valve: Brass Bottom plug: Brass Elastomers: Nitrile

Typical Performance Characteristics

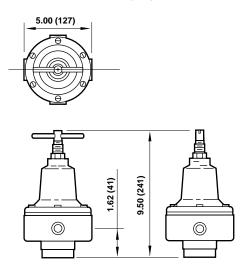


Service Kits

Туре	Part number
Non-relieving	2436-03

Service kit includes diaphragm, valve seat, valve pin, valve pin gasket, valve, valve spring, and o-rings.

All Dimensions in Inches (mm)





Pressure Regulator 1/4", 3/8", 1/2" Port Sizes

- Large diaphragm provides accurate and quick response to changing flow demands and line pressure
- Floating valve pin provides positive valve seating
- Balanced valve minimizes effect of variations in inlet pressure on outlet pressure
- Standard relieving models allow reduction of downstream pressure when the system is dead-ended



Ordering Information. Models listed have PTF threads, T-bar adjustment, relieving diaphragm, and 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*.

Port Size	Model Number	Flow [†] scfm (dm ³ /s)	Weight Ibs (kg)
1/4"	11-002-013	110 (52)	1.9 (0.86)
3/8"	11-002-037	110 (52)	1.9 (0.86)
1/2"	11-002-061	260 (123)	2.0 (0.91)

11-*02-***-**

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.
*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Alternative Models

Threads	Substitute
PTF	0
ISO G parallel	8
ISO G Rc	9

 Option
 Substitute

 Handwheel adjustment
 8C

 Screw adjustment
 8B

 Mounting bracket assembled to unit
 1A

 Threaded bonnet for panel mounting, hand wheel adjustment
 2A

 Threaded bonnet for panel mounting, T-bar adjustment
 2B

 Threaded bonnet for panel mounting, screw adjustment
 2C

Οι	utlet Pressure A	djustment R	inge*	Outlet Pressure Adjustment Ran			Range*		Outlet Pressure Adjustment Range*			
	5 to 50 psig (0.3 to 3.5 ba	r)		5 to 125 psig	(0.3 to 8.5	bar)		5 to 250 psig (0.3 to 17 bar)			oar)
Port Size	Relief Type	Gauge	Substitute	Port Size	Relief Type	Gauge	Substitute	F	Port Size	Relief Type	Gauge	Substitute
1/4 "	Non-relieving	Without	003	1/4 "	Non-relieving	Without	001	1	/4 "	Non-relieving	Without	005
1/4 "	Relieving	Without	015	1/4 "	Relieving	Without	013	1	/4 "	Relieving	Without	017
3/8"	Non-relieving	Without	027	3/8 "	Non-relieving	Without	025	3	3/8″	Non-relieving	Without	029
3/8"	Relieving	Without	039	3/8 "	Relieving	Without	037	3	3/8″	Relieving	Without	041
1/2"	Non-relieving	Without	051	1/2 "	Non-relieving	Without	049	1	/2"	Non-relieving	Without	053
1/2"	Relieving	Without	063	1/2 "	Relieving	Without	061	1	/2"	Relieving	Without	065
1/4 "	Non-relieving	With	009	1/4 "	Non-relieving	With	007	1	/4 "	Non-relieving	With	011
1/4 "	Relieving	With	021	1/4 "	Relieving	With	019	1	/4 "	Relieving	With	023
3/8"	Non-relieving	With	033	3/8 "	Non-relieving	With	031	3	3/8″	Non-relieving	With	035
3/8"	Relieving	With	045	3/8 "	Relieving	With	043	3	3/8″	Relieving	With	047
1/2"	Non-relieving	With	057	1/2 "	Non-relieving	With	055	1	/2"	Non-relieving	With	059
1/2″	Relieving	With	069	1/2 "	Relieving	With	067	1	/2″	Relieving	With	071

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

11-002 Special Purpose Regulators



Technical Data

Fluid: Compressed air Maximum pressure: 400 psig (28 bar) Operating temperature*: -30° to 175°F (-34° to 80°C) *Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C) Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from from set: 1/4" and 3/8" ports: 110 scfm (52 dm3/s) 1/2" ports: 260 scfm (123 dm3/s) Gauge ports 1/8" PTF with PTF main ports Rc1/8 with ISO G and ISO Rc main ports Materials Body: Zinc Bonnet: Aluminum Valve: Brass and nitrile Valve seat: Brass Elastomers: Nitrile Bottom plug

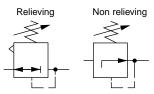
- 1/4" and 3/8" Ports: Brass
 - 1/2" Ports: Nylon

Service Kits

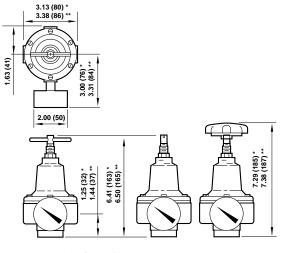
Туре	Part number
Relieving, 1/4" and 3/8" ports	529-03
Relieving, 1/2" ports	535-03
Non-relieving, 1/4" and 3/8" ports	529-01
Non-relieving, 1/2" ports	535-01

Service kit includes diaphragm, valve, valve spring, and o-rings.

ISO Symbols



All Dimensions in Inches (mm)



* Regulators with 1/4" and 3/8" ports. ** Regulators with 1/2" ports.



Panel Mounting Option

Requires alternative threaded bonnet.

Panel mounting hole

0.4" (5 to 10 mm).

0

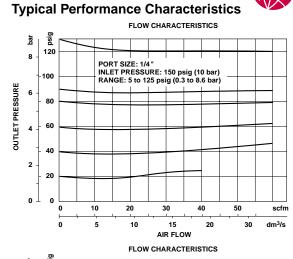
diameter: 1.06" (27 mm).

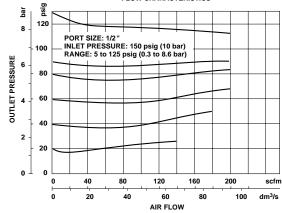
*

(78) * (80) **

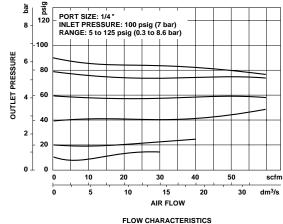
3.06 (3.13 (

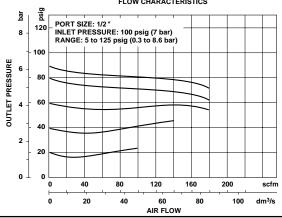
Panel thickness: 0.2" to













Micro Trol Pressure Regulator 1/4" to 1-1/4" Port Sizes

- High flow regulator with exceptional high relief flow
- Adjusting knob can be set in the field to stop at some maximum pressure setting or some minimum pressure setting
- Easy to adjust even at high output pressures
- Balanced valve minimizes effect of variations in inlet pressure on outlet pressure
- Constant bleed feature provides maximum sensitivity to system changes
- Relieving feature allows reduction of downstream pressure when the system is dead-ended
- Full flow gauge ports



Ordering Information. Models listed are constant bleed units with relieving diaphragm, 10 to 125 psig (0.7 to 8 bar) outlet pressure adjustment range, and PTF threads.

Port Size	Model	Weight Ib (kg)
1/4"	R24-200-RGLA	1.90 (0.86)
3/8"	R24-300-RGLA	1.83 (0.83)
1/2"	R24-400-RGLA	1.79 (0.81)
3/4"	R24-600-RGLA	2.73 (1.24)
1"	R24-800-RGLA	2.73 (1.24)
1-1/4"	R24-A00-RGLA	2.65 (1.20)

Alternative Models

Port Size	Substitute
1/4"	2
3/8"	3
1/2"	4
3/4"	6
1"	8
1-1/4"	A
Option	Substitute
Not applicable	0
Туре	Substitute
Knob adjusting	0

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** A factory installed gauge is only available with PTF threads (*A* in last position of model number). If a gauge is desired with ISO threads (*B* or *G* in last position), order the desired gauge and appropriate reducing bushing from *Accessories*.

R24-★★+-★★+

	Threads	Substitute		
	PTF	A		
	ISO Rc taper	В		
	ISO G parallel			
	 Outlet Pressure Adjustment Ranges* 	Substitute		
	5 to 30 psig (0.3 to 2 bar)	С		
	5 to 60 psig (0.3 to 4 bar)			
	L			
10 to 250 psig (0.7 to 17 bar)		S		
	Gauge	Substitute		
	With			
Without		Ν		
	– Diaphragm	Substitute		
	Relieving	R		

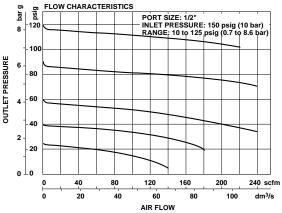
ISO Symbol

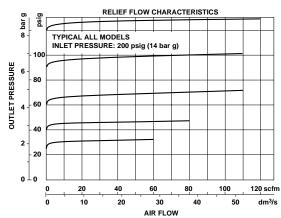


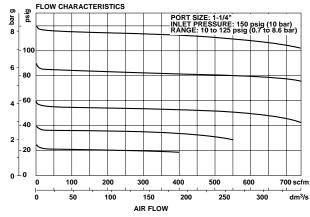


Technical Data Fluid: Compressed air Maximum inlet pressure: 300 psig (20 bar) Operating temperature: 0° to 150°F (-20° to 8	30°C)*			erformant 232 psi (0.7 to
 Air supply must be dry enough to avoid ice formation below 35°F (2°C). Typical flow with 150 psig (10 bar) inlet pression and 15 psig (1 bar) droop from from set 1/2" ports: 200 scfm (94 dm³/s) 1-1/4" ports: 700 scfm (330 dm³/s) Maximum bleed rate at 50 psig (3.5 bar) outlet 1 Maximum bleed rate occurs under dead-end (no flo Port sizes: 	ion at temperatures ure, 90 psig (6.3 bar) set pressure pressure: 0.031 scfm (0.016 dm ³ /s) †	OUTLET PRESSURE	- 120	
MainGauge1/4"1/4"3/8"3/8"1/2", 3/4", 1", 1-1/4"1/2"Thread type: PTF, ISO G, or RcMaterialsBody, top cap: ZincMain valve, adjusting screw: BrassPilot valve, relief valve: Acetal	je	2		40 8
All Dimensions in Inches (mm) Panel mounting hole diameter: 1.26" (32 mm) Maximum panel thickness: 0 to 0.12" (3 mm)		OUTLET PRESSURE		RELI
2.72 (69)	2.72 (69)	0		20 4
	6 (130) (130	5 FLO		
2.09 (53)	3.65 (93)		100 50	200 3 100 AI

nce Characteristics to 16 bar)







Service Kits

Item	Туре	Part number
Service kit	1/4, 3/8, 1/2	5292-52
Service kit	3/4, 1, 1-1/4	5292-53

Service kits include seals, main valve and spring.

