

Air line equipment

Miniature General Purpose Regulators

R07, R46 (non-repairable)

R07

Full flow gauge ports

Snap action knob locks pressure setting when pushed in

Standard relieving models allow reduction of outlet pressure even when the system is dead-ended

R46

Wrench flats for easy installation

Relieving piston design allows reduction of downstream pressure when the system is dead-ended

Choice of left to right or right to left flow

Technical data

R07

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-34° to 150°F (-35° to 65°C) *

* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).

R46 non-repairable

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

-30° to 150°F (-34° to 65°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).

Materials

R07

Body: zinc

Bonnet: acetal

Valve seat: acetal

Elastomers: nitrile

R46 non-repairable

Body: zinc

Knob: nylon

Valve: nitrile compound

Valve seat: acetal

Elastomers: nitrile



R07

R46

Ordering Information

Model listed has left to right flow, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*, and PTF threads. Gauge is not included.

Port Size	Model	Flow† scfm (dm ³ /s)	Weight lb (kg)
1/8"	R07 100 RGKA	14 (6.5)	0.31 (0.19)
1/4"	R07 200 RGKA	15 (7)	0.31 (0.19)
1/4"	R46 200 RNLA	13 (6)	0.2 (0.09)

* 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 set.

Alternative Models

R07		R46	
Port Size	Substitute	Threads	Substitute
1/8"	1	PTF	A
1/4"	2	ISO G parallel	G
Option	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
Not applicable	0	1 to 10 psig (0.1 to 0.7 bar)	A
		5 to 50 psig (0.3 to 3.5 bar)	E
		5 to 100 psig (0.3 to 7 bar)	K
		5 to 125 psig (0.3 to 8.6 bar)	L
Option	Substitute	Gauges	Substitute
Standard	0	With	G
Low flow seat	2	Without	N
		Diaphragm	Substitute
		Relieving	R
		Non relieving	N

R46		R46	
Port Size	Substitute	Threads	Substitute
1/4"	2	PTF	A
		ISO G parallel	G
Flow Direction With Knob Up and Gauge Visible	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
Left to Right	00	5 to 50 psig (0.3 to 3.5 bar)	E
Right to Left	02	5 to 125 psig (0.3 to 8.5 bar)	L
		5 to 150 psig (0.3 to 10 bar)	M
Piston Type	Substitute	Gauges	Substitute
Relieving	R	With	G
		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.

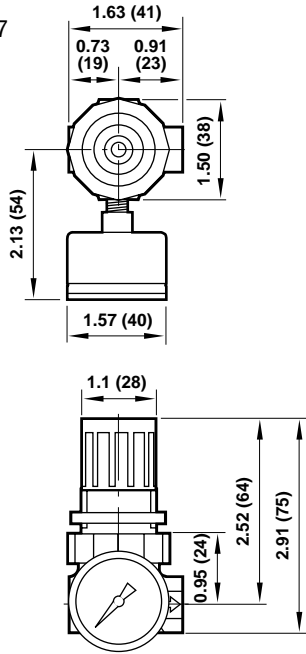
Miniature General Purpose Regulators

R07, R46 (non-repairable)

Dimensions in inches (mm).

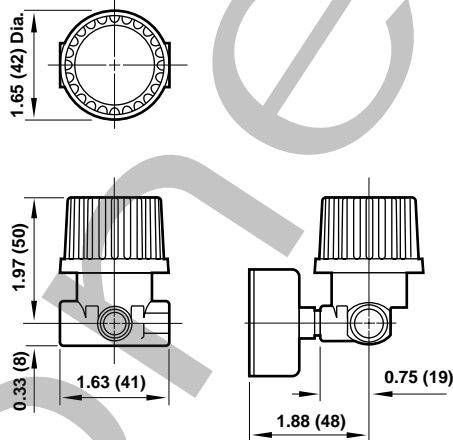
Panel mounting hole diameter 1.19" (30 mm)
Maximum panel thickness 0.25" (6 mm)

R07



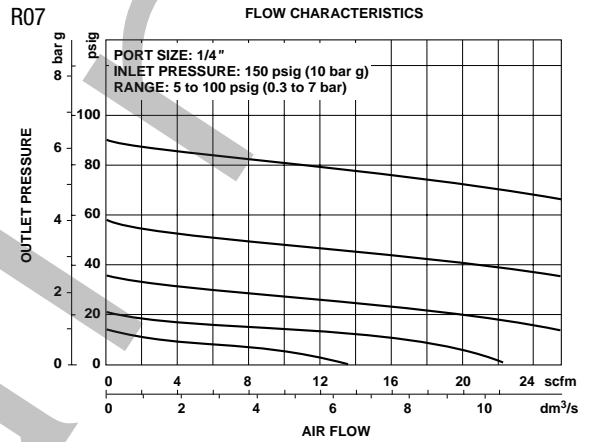
All Dimensions in Inches (mm)

R46

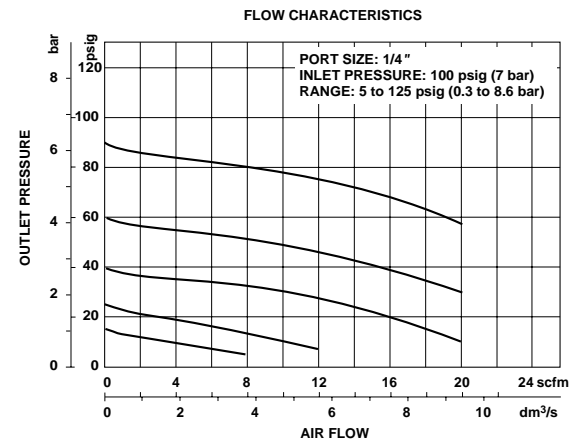
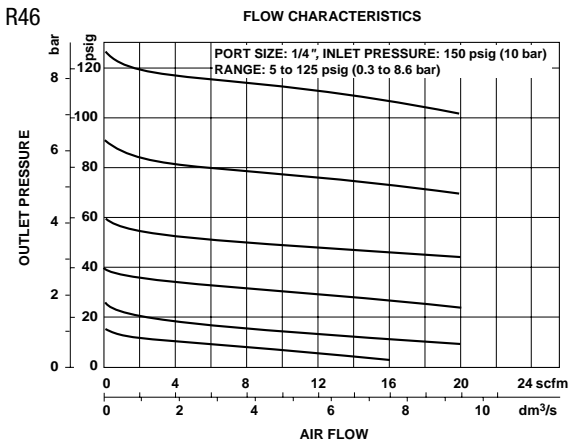


Typical Performance Characteristics

R07



R46



General Purpose Regulators

R17, R18

R17

Accurate and quick response to changes in flow demand and line pressure variations

Balanced valve minimizes effect of changes in inlet pressure on outlet pressure

R18

The R18 with the feedback integral pilot provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.

Constant bleed feature in pilot regulator provides quick response and minimum dead-band

Low torque, non-rising adjusting knob

Integral locking device on knob adjustment

Technical data

Fluid:

Compressed air

Inlet pressure range:

10 psig (0.7 bar) minimum to 450 psig (31 bar) maximum

R17

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-30° to 175°F (-34° to 80°C) * (R46)

-30° to 175°F (-34° to 80°C) (R17)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Materials

R17

Body: aluminum

Bonnet: aluminum

Bottom plug: acetal

Valve: aluminum and nylon

Elastomers: nitrile

R18

Body: aluminum

Bonnet: aluminum

Bottom plug: aluminum

Integral Pilot Regulator: teflon

Pilot Operated Regulator: aluminum

Elastomers: Nitrile



R17



R18

Port Size	Model Number	Flow† scfm (dm ³ /s)	Weight lbs (kg)
3/4"	R17 600 RGLA	440 (208)	2.31 (1.05)
1"	R17 800 RGLA	480 (227)	2.02 (0.92)
1 1/4"	R17 A00 RGLA	400 (189)	2.68 (1.22)
1 1/2"	R17 B00 RGLA	440 (208)	2.59 (1.18)
1 1/2"	R18 B05 RGLA	2000 (944)	8.48 (3.85)
2"	R18 C05 RGLA	2000 (944)	8.27 (3.75)

Alternative Models

Port Size	Substitute	Threads	Substitute
3/4"	6	PTF	A
1"	8	ISO G parallel (not available with 1-1/2" ported units)	G
1-1/4"	A		
1-1/2"	B		
Option	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
Not applicable	0	5 to 50 psig (0.3 to 3.5 bar)	E
		5 to 125 psig (0.3 to 8.5 bar)	L
		10 to 250 psig (0.7 to 17 bar)	S
Adjustment	Substitute	Gauges	Substitute
Knob	0	With	G
T-bar	1	Without	N
		Diaphragm	Substitute
		Relieving	R
		Non relieving	N

Port Size	Substitute	Port Threads	Substitute
1-1/2"	B	PTF	A
2"	C	ISO Rc taper	B
		ISO G parallel	G
Pilot Regulator Type	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
R40 Conventional	05	5 to 50 psig (0.3 to 3.5 bar)	E
R41 Feedback **	06	5 to 125 psig (0.3 to 8.5 bar)	L
		10 to 250 psig (0.7 to 17 bar)	S
Diaphragm	Substitute	Gauges	Substitute
Relieving	R	With	G
Non relieving	N	Without	N

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

** Requires relieving diaphragm and 250 psig (17 bar) spring (R in 7th position and S in 9th position) e.g. R18-B06-RNSG.

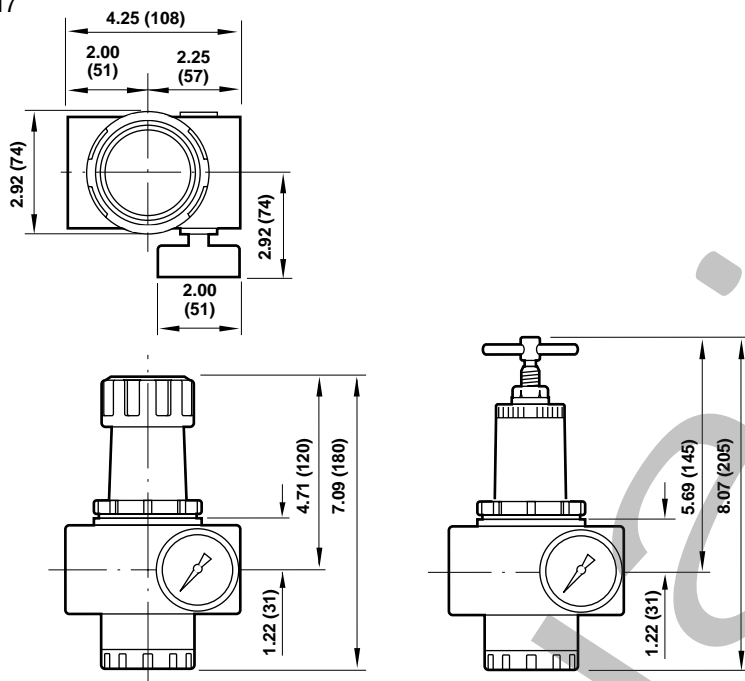
General Purpose Regulators

R17, R18

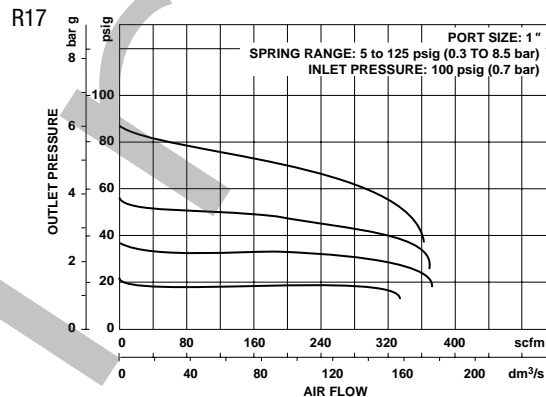
Dimensions in inches (mm).

Panel mounting hole diameter: 2.28" (58 mm)
Panel thickness: 0.06" to 0.16" (2 to 4 mm)

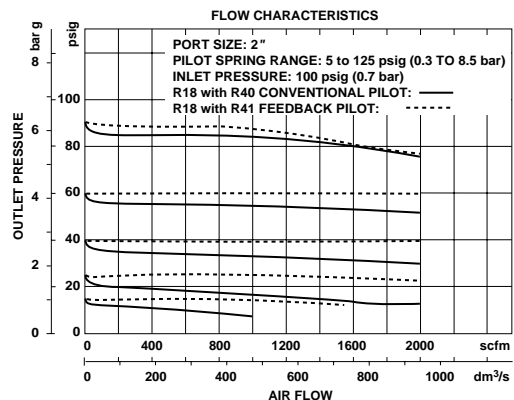
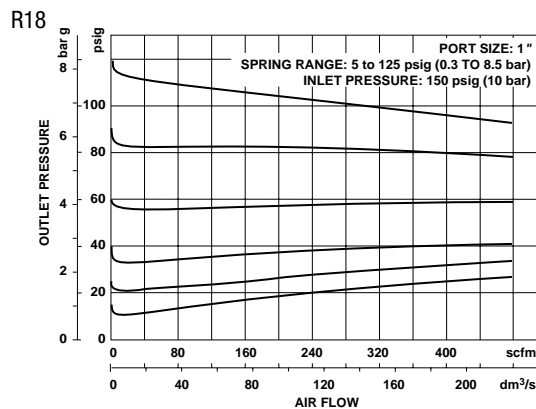
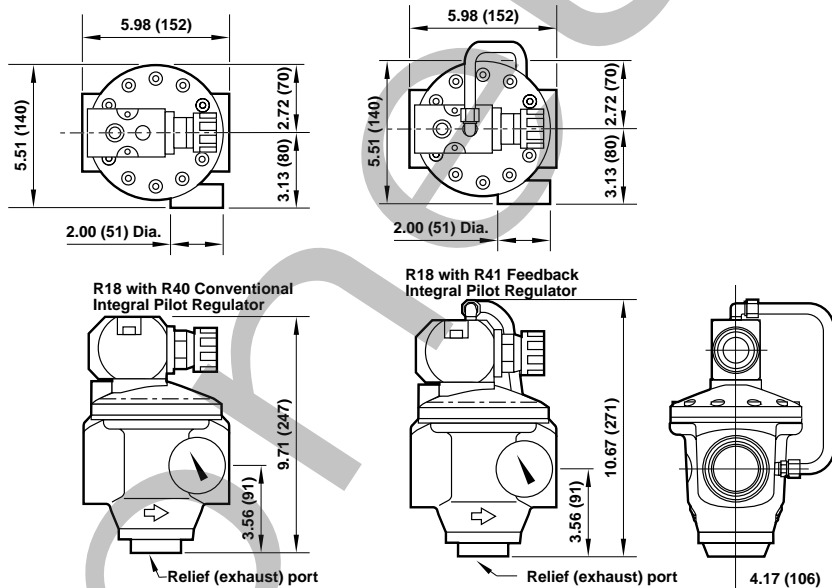
R17



Typical Performance Characteristics



R18



Air line equipment

11-002 Pressure Regulator

1/4", 3/8", and 1/2" ports

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



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

Ordering Information

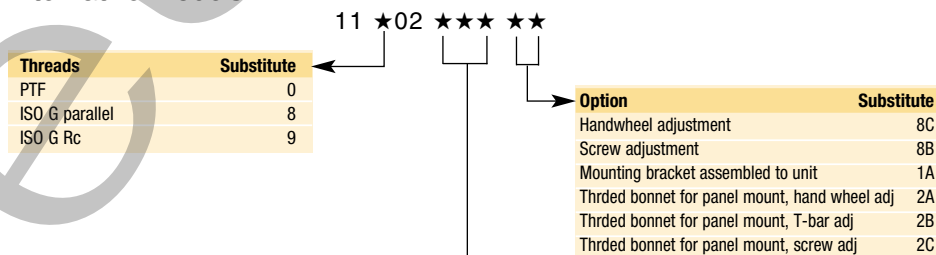
Models listed have PTF threads, T-bar adjustment, relieving diaphragm, and 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*.

Port Size	Model Number	Flow† scfm (dm3/s)	Weight lbs (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)

† 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



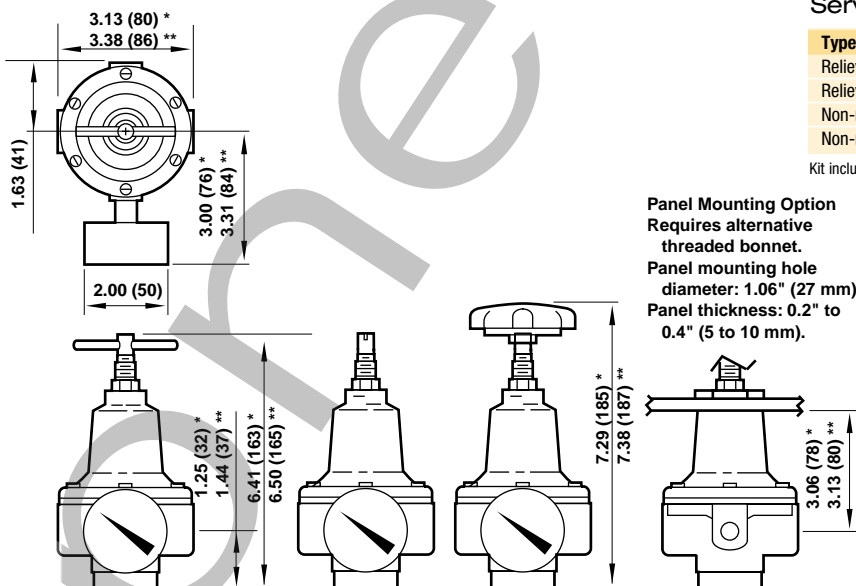
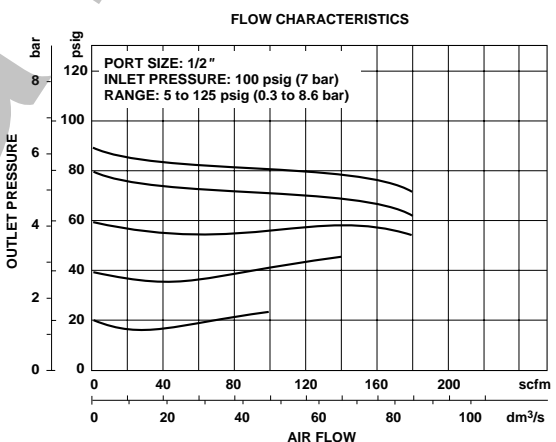
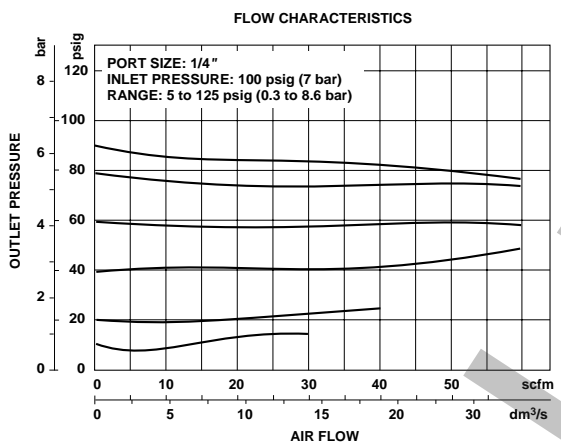
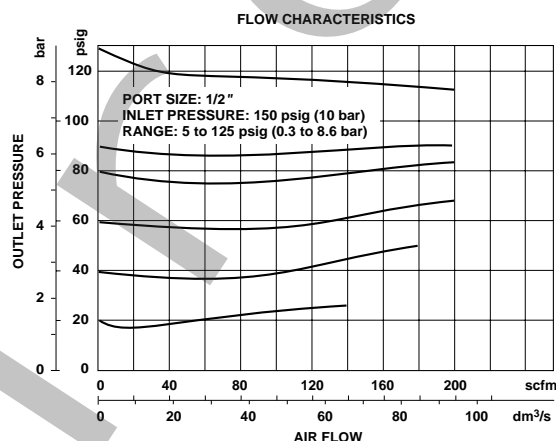
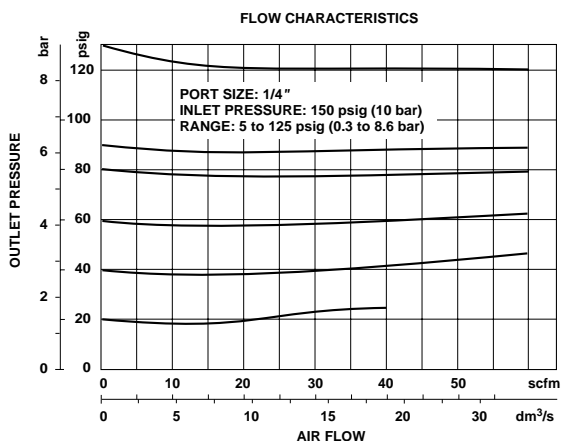
Outlet Pressure Adjustment Range* 5 to 50 psig (0.3 to 3.5 bar)					Outlet Pressure Adjustment Range* 5 to 125 psig (0.3 to 8.5 bar)					Outlet Pressure Adjustment Range* 5 to 250 psig (0.3 to 17 bar)				
Port Size	Relief Type	Gauge	Sub.		Port Size	Relief Type	Gauge	Sub.		Port Size	Relief Type	Gauge	Sub.	
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		3/8"	Non-relieving	Without	029	
3/8"	Relieving	Without	039		3/8"	Relieving	Without	037		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		3/8"	Non-relieving	With	035	
3/8"	Relieving	With	045		3/8"	Relieving	With	043		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 Pressure Regulator

1/4", 3/8", and 1/2" ports

Typical Performance Characteristics



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

Dimensions in inches (mm)

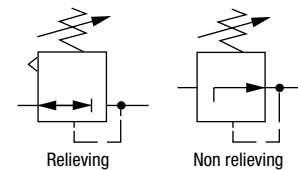
Service Kits

Type	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

Kit includes diaphragm, valve, valve spring, and o-rings.

Panel Mounting Option
Requires alternative threaded bonnet.
Panel mounting hole diameter: 1.06" (27 mm).
Panel thickness: 0.2" to 0.4" (5 to 10 mm).

ISO Symbols



Air line equipment

R24 Micro-Trol Pressure Regulator

1/4" to 1-1/4" ports

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

Technical data

Fluid:

Compressed air

Maximum inlet pressure:
300 psig (20 bar)

Operating temperature:

0° to 150°F (-20° 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

1/2" 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 pressure:

0.031 scfm (0.016 dm³/s) †

† Maximum bleed rate occurs under dead-end (no flow) conditions.

Port sizes:

Main	Gauge
1/4"	1/4"
3/8"	3/8"
1/2", 3/4", 1", 1-1/4"	1/2"

Thread type: PTF, ISO G, or Rc

Materials

Body, top cap: Zinc

Main valve, adjusting screw: Brass

Pilot valve, relief valve: Acetal

Elastomers: Nitrile

Bottom Plug: Acetal



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 lb (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)

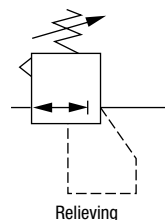
Alternative Models

Port Size	Substitute	Threads	Substitute	Outlet Pres Adj. Ranges*	Substitute	Gauge	Substitute	Diaphragm	Substitute
1/4"	2	PTF	A	5 to 30 psig (0.3 to 2 bar)	C	With	G**	Relieving	R
3/8"	3	ISO Rc taper	B	5 to 60 psig (0.3 to 4 bar)	F	Without	N		
1/2"	4	ISO G parallel	G	10 to 125 psig (0.7 to 8 bar)	L				
3/4"	6			10 to 250 psig (0.7 to 17 bar)	S				
1"	8								
1-1/4"	A								
Option	Substitute								
Not applicable	0								
Type	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.

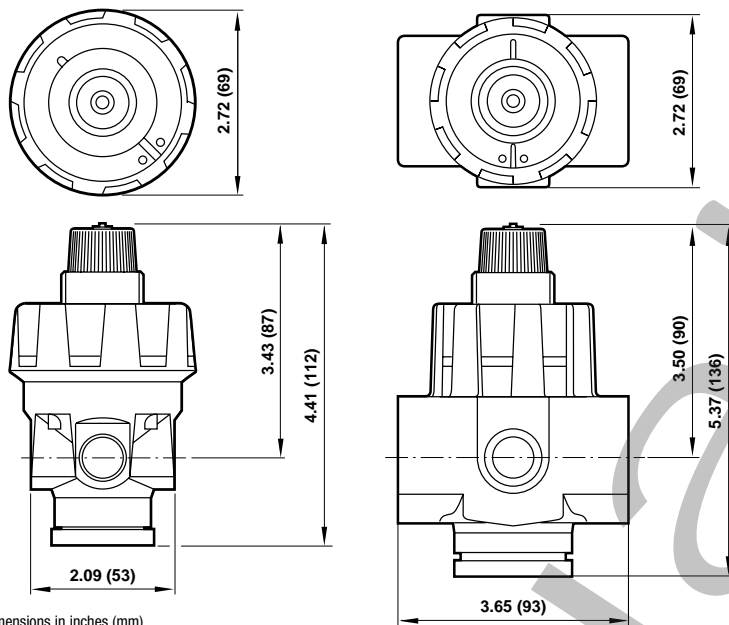
ISO Symbol



R24 Micro Trol Pressure Regulator

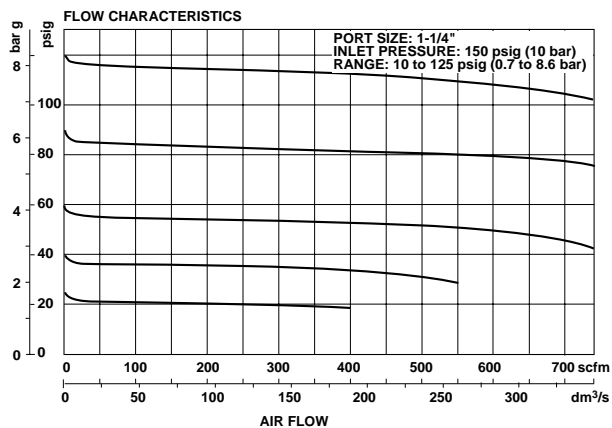
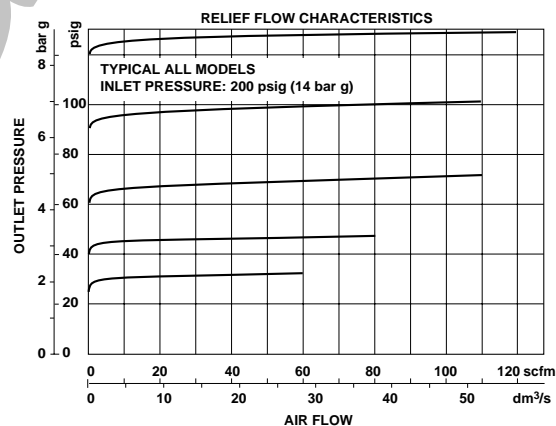
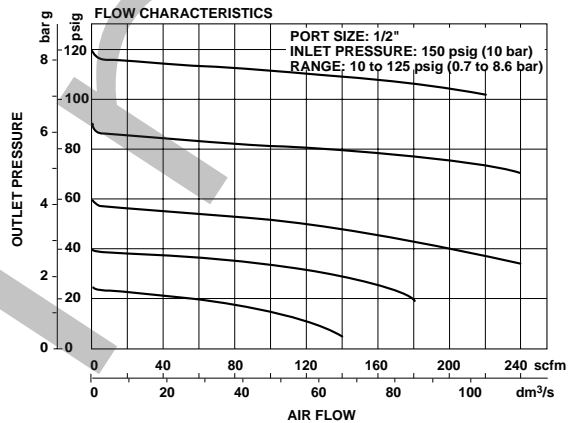
1/4" to 1-1/4" ports

Typical Performance Characteristics
RANGE: 10 to 232 psig (0.7 to 16 bar)



Dimensions in inches (mm)

Panel mounting hole diameter: 1.26" (32 mm)
Maximum panel thickness: 0 to 0.12" (3 mm)



Service Kits

Item	Type	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.