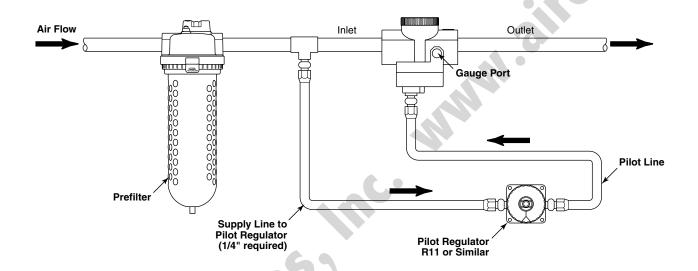
R21 / 31 / 41-XX-RXX Principal Regulator (Remote Operated)

Remote-control Dial-Air™ Regulator

Incorporates all the features of the standard Dial-Air[™] Regulator plus the additional advantage of remote installation using the R11 model Pilot Regulator. Maximum inlet operating pressure and temperature ratings are 300 PSIG (20.7 bar) and 150°F (65.5°C).

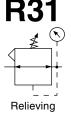
The Remote-control Dial-Air™ Regulators are available in five pipe sizes, with 1/4" NPT connections on the pilot regulator and pilot port of remote-controlled regulators. Typical installation is shown below. For other remote models, see R21, R31 & R41.



Dial-Air™

Dial-AirTM regulators feature a transparent, pressure-calibrated, non-rising adjustment dial for quick adjustment of secondary pressure. If a gauge (R21, R31, R41) is required for monitoring reasons, two 1/4" gauge ports are provided; however, these are usually used for additional outlet ports. The full reduced pressure range can be dialed in less than 270° of dial rotation. This feature is particularly advantageous if secondary pressure must be changed frequently. The transparent dial can be color or graphics coded for easy reference to required pressure changes. Dial-AirTM regulators can be mounted in any position so dial face is always visible. All Dial-AirTM units have a slight constant air bleed: 0.05 SCFM (0.024 dm³/s), @100 PSIG (6.9 bar) inlet and 90 PSIG (6.2 bar) outlet.

Dial-Air[™] Regulator





R31-06-000

Features

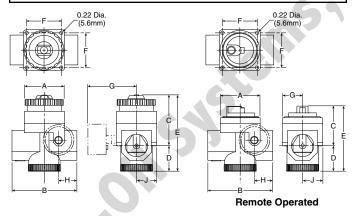
- Balanced Valve Design
- Non-Rising Pressure Adjusting Dial
- High-Relief Flow (3/16" Relief Orifice)
- Two 1/4" NPT / BSPT-Rc Gauge Ports, Usually Used for Additional Outlets
- · Piston Operated

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.



NOTE: Panel mounting requires (2) 11/16" (69mm) diameter holes and (4) 7/32" (5.5mm) screw holes. Unit can be mounted on material up to 1-1/4" (32mm) thick.

Specifications

Specifications	•				
Flow Capacity*	3/4	400 SCFM (189 dm ³ /s)			
	1	650 SCFM (307 dm ³ /s)			
	1-1/4	700 SCFM (330 dm ³ /s)			
Adjusting Range Pressure		0 to 40 PSIG (0 to 2.7 bar			
		0 to 160 PSIG (0 to 11 bar)			
Bleed Rate		0.05 SCFM (0.024 dm ³ /s)			
Gauge Port (2 ea.)	NPT / BSPT-	-Rc 1/4			
Maximum Supply P	ressure	300 PSIG (20.7 bar)			
Operating Tempera	ture	32° to 150°F (0° to 65.5°C)			
Port Size	NPT / BSPP-	-G 3/4, 1, 1-1/4			
Weight	lb. (kg)	4.0 (1.8)			

= "Most Popular"

Materials of Construction

Body	Zinc
Bonnet	Zinc / Brass
Piston	Acetal
Seals	Nitrile
Springs	Steel
Valve Assembly	Brass / Nitrile / Acetal

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.

Dimensions

Models Inches (mm)	А	В	С	D	E	F	G	Н	J
Standard Unit	2.59	4.29	3.50	1.69	5.19	2.20	1 1	1.23	1.31
R31-XX-000	(66)	(109)	(88.9)	(43)	(132)	(55.9)		(31.2)	(33.3)
With Gauge (order separately)	2.59	4.29	3.50	1.69	5.19	2.20	3.00	1.23	1.31
R31-XX-XXX	(66)	(109)	(88.9)	(43)	(132)	(55.9)	(76)	(31.2)	(33.3)
Remote Operated	2.59	4.29	2.63	1.69	4.32	2.20	1.33	1.23	1.31
R31-XX-R00	(66)	(109)	(66.8)	(43)	(109.7)	(55.9)	(33.7	(31.2)	(33.3)

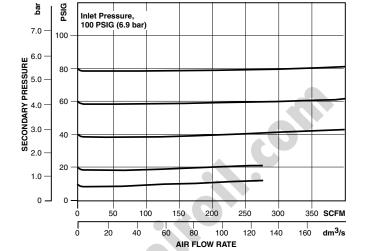
^{*} Inlet pressure 100 PSIG (6.9 bar). Secondary pressure 80 PSIG (5.5 bar).

= "Most Popular"

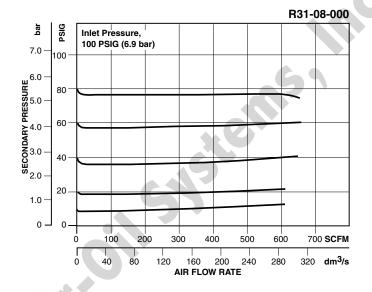
R31-06-000

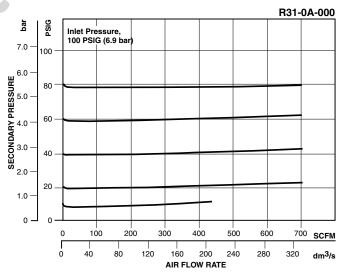
Replacement Kits

-	
Adjustment Dial Knob	RRP-16-024-000
Conversion Kit (Series A to Series B)	RRP-95-766
O-ring, Repair Kit	GRP-95-261
Piston, Bottom and O-ring seal	RRP-95-192
Spring, Regulating, Belleville Washer -	
0 to 40 PSIG (0 to 2.8 bar)	RRP-95-906
0 to 160 PSIG (0 to 11 bar)	
0 10 100 1 510 (0 10 11 501)	
Valve, Main with O-ring Seal	RRP-95-152
Valve, Main (Remote) with O-ring Seal	RRP-96-950
Valve, Pilot with O-ring and Valve Spring	RRP-96-935



Accessories





Ordering Information

Model Type	Port Size	High Flow 5 to 160 PSIG (0.4 to 11 bar)	Low Pressure 2 to 40 PSIG (0.1 to 3 bar)	Remote 5 to 160 PSIG (0.4 to 11 bar)
Relieving	3/4	R31-06-000	R31-06-L00	R31-06-R00
	1	R31-08-000	R31-08-L00	R31-08-R00
	1-1/4	R31-0A-000	R31-0A-L00	R31-0A-R00

Options - To order an option supplied with the unit model, add the appropriate coded suffix letter in the designated position of the model number.