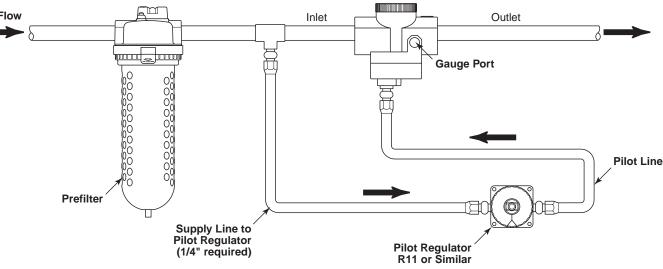
R21 / 31 / 41-XX-RXX Principal Regulator (Remote Operated)

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.

B



Dial-Air™

Dial-Air[™] regulators feature a transparent, pressurecalibrated, 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-Air[™] regulators can be mounted in any position so dial face is always visible. All Dial-Air[™] 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.



L Low Pressure

2 to 40 PSIG

R Remote Air Pilot

Fluorocarbon*

Not available on R11.

V

Options

0

Β

Filters, Regulators, Lubricators

Dial-Air™ Regulator = "Most Popular" **Numbering System** Unit Pipe Thread Function Options Options Family Туре Size 3 2 R 1 U Ω O Family **Unit Function Thread Type** Options R Regulator 11 0 NPT 0 Standard C BSPP¹ 5 to 160 PSIG 21

¹ ISO, R228 (G Series)

NOTE: Standard pressure adjustment is plastic "snap lock" knob and plastic bonnet with plastic panel mount nut.

31

41

NOTE: When selecting from the options columns, please enter letters in alphabetical order for positions 6, 7, and 8. For example:

R21 - 0 3 - <u>0</u> 0 0

Series

Х Х

Х

41

Х Х

21 31

Х

Х Х

11

Х Х

Pipe

Size

1/4"

3/8"

1/2"

3/4"

1"

1-1/4'

1-1/2

2"

Code

2

3

4

6

8

А

В

С

= "Most Popular"

400 SCFM (189 dm³/s) 650 SCFM (307 dm3/s) 700 SCFM (330 dm³/s)

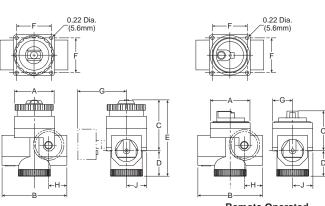
Dial-Air[™] Regulator R31 Relieving



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



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.

Dimensions

Remote Operated

Flow Capacity*	3/4	
	1	
	1-1/4	

Specifications

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-R	c 1/4		
Maximum Supply Pr	essure	300 PSIG (20.7 bar)		
Operating Temperate	ure	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)		

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

Materials of Construction

Zinc
Zinc / Brass
Acetal
Nitrile
Steel
Brass / Nitrile / Acetal

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

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.

Models Inches (mm)	Α	В	С	D	E	F	G	н	J
Standard Unit	2.59	4.29	3.50	1.69	5.19	2.20		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)

WILKERSON®

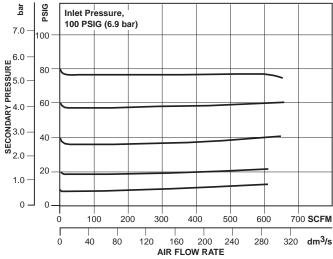
Pneumatic Division Richland, Michigan www.wilkersoncorp.com

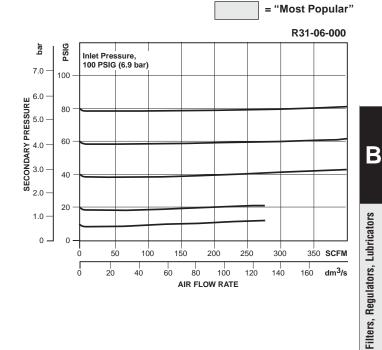
B

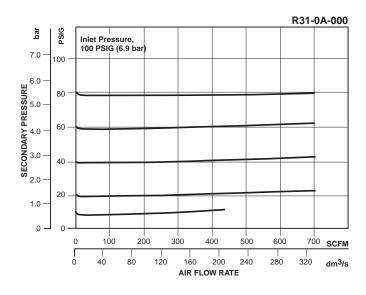
Replacement Kits

•	
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 – 2 to 40 PSIG (0.1 to 3 bar) 5 to 160 PSIG (0.4 to 11 bar)	
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
2 to 40 PSIG (0.1 to 3 bar) 5 to 160 PSIG (0.4 to 11 bar) Valve, Main with O-ring Seal Valve, Main (Remote) with O-ring Seal	RRP-95-905 RRP-95-152 RRP-96-950

Accessories







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)
	3/4	R31-06-000	R31-06-L00	R31-06-R00
Relieving	1	R31-08-000	R31-08-L00	R31-08-R00
	1-1/4	R31-0A-000	R31-0A-L00	R31-0A-R00

R31-08-000

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

