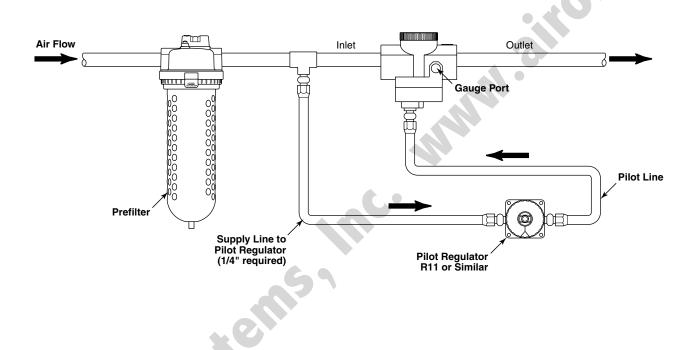
R21 / 31 / 41-XX-RXX Principal Regulator (Remote Operated)

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-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.



Dial-Air[™] Regulator R21

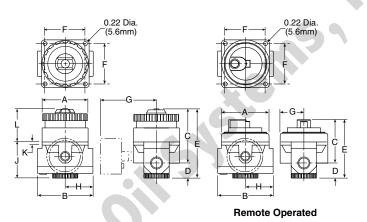




R21-02-000

Features

- Balanced Valve Design
- Non-Rising Pressure Adjusting Dial
- High-Relief Flow (3/16" Relief Orifice)
- Two 1/4" NPT 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

Specification	•						
Specifications							
Flow Capacity*	1/4	117 SCFM (55 dm ³ /s)					
	3/8	180 SCFM (85 dm ³ /s)					
	1/2	195 SCFM (92 dm ³ /s)					
	3/4	220 SCFM (103 dm ³ /s)					
Adjusting Range Pressure		0 to 40 PSIG (0 to 2.8 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 F	Pressure	300 PSIG (20.7 bar)					
Operating Temperature		32° to 150°F (0° to 65.5°C)					
Port Size	NPT / BSPP	-G 1/4, 3/8, 1/2, 3/4					
Weight	lb. (kg)	2.3 (1.04)					

Inlet pressure 100 PSIG (6.9 bar). Secondary pressure (1/4, 1/2 & 3/4) 90 PSIG (6.2 bar); (3/8) 80 PSIG (5.5 bar).

Materials of Construction

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

🗥 WARNING

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	Е	F	G	Н	J	к	L
Standard Unit R21-XX-000		2.60 (66)	3.19 (81)	3.14 (79.8)	.95 (24)	4.09 (104)	2.20 (55.9)	-	1.61 (41)	2.08 (52.8)	.18 (4.6)	2.07 (52.6)
With Gauge (order separately) R21-XX-XXX		2.60 (66)	3.19 (81)	3.14 (79.8)	.95 (24)	4.09 (104)	2.20 (55.9)	2.70 (68.5)	1.61 (41)	2.08 (52.8)	.18 (4.6)	2.07 (52.6)
Remote Operated R21-XX-R00		2.60 (66)	3.19 (81)	2.24 (56.9)	.95 (24)	3.19 (81)	2.20 (55.9)	1.33 (33.8)	1.61 (41)	2.08 (52.8)	.18 (4.6)	1.11 (28.2)

WILKERSON

= "Most Popular"

= "Most Popular"

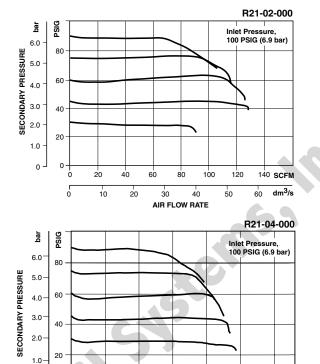
Replacement Kits

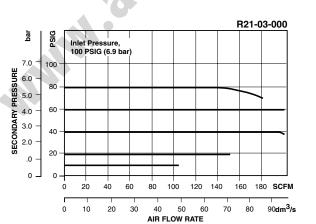
Adjustment Dial Knob RR	P-16-024-000
Conversion Kit (Series A to Series B)	RRP-95-766
Cover Kit (Remote) – Bonnet and Nitrile, O-ring (Series B) Bonnet and Fluorocarbon, O-ring (Series B)	
O-ring, Repair Kit	GRP-95-260
Piston, Bottom and O-ring Seal	RRP-95-192
Spring, Regulating, Belleville Washer – 0 to 40 PSIG (0 to 2,8 bar) 0 to 160 PSIG (0 to 11 bar)	
Valve, Main with U-cup Seal	RRP-95-151
Valve, Main with U-cup Seal and Bottom Plug – Nitrile Elastomers Fluorocarbon Elastomers	
Valve, Main (Remote) with U-cup Seal	RRP-96-952

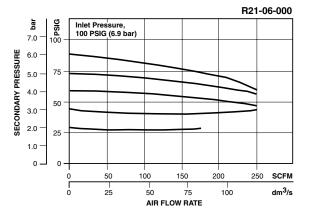
Valve, Main (Remote) with U-cup Seal and Bottom Plug –				
Nitrile Elastomers)	RRP-95-912			
Fluorocarbon Elastomers	RRP-95-913			
Valve, Pilot with O-ring and Valve Spring	RRP-96-934			

Accessories

Wall Mounting Bracket, Gauge Port Adapter, 1/4 NPTRRP	-95-590
Gauge, Pressure –	
0 to 60 PSIG (0 to 4 bar), 2" Dial Face,	
1/4 NPT, CBMK4520	N14060
0 to 160 PSIG (0 to 11 bar), 2" Dial Face,	
1/4 NPT, CBM K4520)N14160
Tamper Resistant KitRRP	-95-585







Ordering Information

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0

50

25

100

50

150

75

AIR FLOW RATE

200

100

250

125

SCFM

dm³/s

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Model Type	Port Size	High Flow 5 to 160 PSIG (0.4 to 11 bar)	Low Pressure 2 to 40 PSIG (0,. to 3 bar)	Remote 5 to 160 PSIG (0.4 to 11 bar)
Relieving	1/4	R21-02-000	R21-02-L00	R21-02-R00
	3/8	R21-03-000	R21-03-L00	R21-03-R00
	1/2	R21-04-000	R21-04-L00	R21-04-R00
	3/4	R21-06-000	R21-06-L00	R21-06-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.