

Underwriters Laboratories, Inc. listed (file number SA1089) for use with air, argon, carbon dioxide, krypton, neon, nitrogen, xenon. For use with other gases, including oxygen, consult factory.

Non-relieving and relieving models. Relieving models allow reduction of outlet pressure even when the system is dead-ended



Technical data

Fluid: Compressed air. carbon dioxide, inert gases, neutral gases NOTE: Contact technical support for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature: -30° to 150°F (-34° to 66°C) *

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

R83

Fluid: Air, argon, carbon dioxide, krypton, neon, nitrogen, and xenon. For use with other gases, including oxygen, consult technical support. Do not use the R83 regulator in beverage dispensing applications. Other regulators (R81 for soft drink, R82 for beer, R84 for carbonators) are available for use in dispensing systems.

Maximum pressure:

3000 psig (207 bar)

Operating temperature:

-30° to 140°F (-34° to 60°C) * * Fluid must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

R44

Body and bonnet

R44-100/-200: Aluminum body; acetal plastic bonnet

R44-121/-221: Brass body; acetal

plastic bonnet

R44-122/-222: Zinc body; acetal

plastic bonnet

R44-133/-233: Brass body; brass

bonnet

Valve: Brass/nitrile Valve seat: Acetal

Elastomers: Nitrile

R83

Body: Brass

Bonnet: Zinc

Cartridge valve: PTFE, brass,

stainless steel

Diaphragm: Acetal and nitrile

Seals: Nitrile

Ordering information

Models listed have PTF threads, and relieving diaphragm.

Body	Bonnet	Medium	Port PTF	Model	Flow* scfm (dm3/s)	Weight Ib (kg)
Aluminum	Plastic	Air, inert gases	1/4"	R44-200-RNKA	10 (4.7)	0.23 (0.11)
Brass	Plastic	Air, CO2, inert gases	1/4"	R44-221-RNKA	10 (4.7)	0.45 (0.21)
Zinc	Plastic	Air, inert gases	1/8"	R44-122-RNKA	10 (4.7)	0.31 (0.14)
Brass	Brass	Air, CO2, inert gases	1/4"	R44-233-RNKA	10 (4.7)	0.54 (0.25)

Port	Model	Flow * scfm dm3/s()	Weight lb (kg)
1/4"	R83-200-RNLA	11 (5.2)	1.3 (0.59)

Alternative Models - R83

R83-200- ★ N ★ A

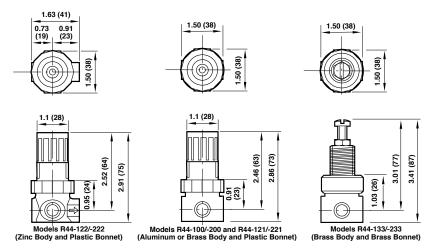
Diaphragm	Substitute	←
Relieving	R	
Non relieving	N	

* Approximate flow with 1000 psig (69 bar) inlet pressure, 60 psig (4 bar) set pressure and a 5 psig (0.35 bar) droop from se	ŧ.
† Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to contri	ol
pressures outside of the specified ranges.	

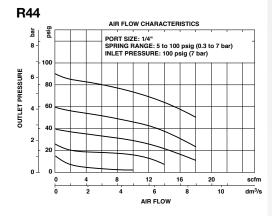
-	Outlet Pres Adj Ranges †	Substitute
	2 to 50 psig (0.1 to 3.5 bar)	Е
	5 to 125 psig (0.3 to 8.5 bar)	L
	10 to 175 psig (0.7 to 12 bar)	N



R44



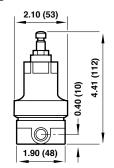
Panel mounting hole diameter: Models with plastic bonnet: 1.19" (30 mm) Models with brass bonnet: 0.81" (21mm) Maximum panel thickness: 0.25" (6 mm)



R44 Service Kits

Item	Туре	Part number
Service kit	Relieving	3407-02
	Non relieving	3407-01

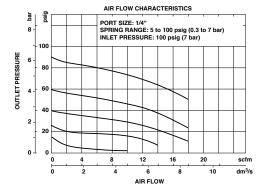
R83





Mounting Holes (2 Places) 0.18" (4.6mm) dia. by 0.39 (10mm) deep. Use 10-32 thread forming screws.

R83



R83 Service Kits

Item	Туре	Part number
Service kits	Diaphragm, relieving	570-51
	Diaphragm, non relieving	570-10
	Valve cartridge	5086-55

Valve cartridge includes the sealed cartridge and cartridge o-ring.

Dimensions in inches (mm)

