53R Regulator – Relieving



Port Size

Features

- Balanced poppet design.
- Non-rising, pressure-adjusting dial.
- High-relief flow (3/16" relief orifice).
- Two 1/4" gauge ports.
- · Piston operated.

Flow capacity: 3/4" - 400 SCFM[§]
 1" - 650 SCFM[§]
 14/4" - 700 SCFM[§]

Low Pressure

2 to 40 PSIG

(0.14 to 3 bar)

1-1/4" - 700 SCFM§



53R Regulator Dimensions			
A	B	C	
5.20	4.30	2.60	
(132)	(109)	(66)	
D	E	F	
1.70	1.23	4.30	
(43)	(31)	(109)	
G	H	J	
3.00	2.20	1.21	
(76)	(56)	(33)	

Inches (mm)

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

3/4" 53R426R* 53R425R* 1" 53R526R* 53R525R* 1-1/4" 53R626R* 53R625R* Standard part numbers shown bold. For other models refer to ordering information below. Standard part numbers shown bold.

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

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no-flow secondary setting and 25 PSIG pressure drop.

High Flow

5 to 160 PSIG

(0.34 to 11 bar)

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.



Prep-Air[®] II, 53R Series **Dial Regulators**

Technical Information



53R Regulator Kits & Accessories

Adjustment Dial Knob	RRP-16-024-80			
O-ring, Repair Kit	GRP-95-261-80			
Piston, Bottom and O-ring Seal	RRP-95-192-80			
Pistons and Bonnet Repair Kit	RRP-95-766-80			
Spring, Regulation, Belleville Washer				
2 to 40 PSIG Range	RRP-95-906-80			
5 to 160 PSIG Range	RRP-95-905-80			
Tamper Resistant Kit	RRP-95-585-80			
Valve, Main with O-ring Seal	RRP-95-152-80			
Valve, Pilot with O-ring and Valve Spring RRP-96-935-80				

Specifications

Adjusting Range Pressure	2 to 40 PSIG (0 to 2.8 bar)
	5 to 160 PSIG (0 to 11.0 bar)
Bleed Rate	0.05 SCFM
Gauge Ports	Two Ports 1/4"
(Can be used as additional High Flo	w 1/4 Inch Outlet Ports)
Maximum Operating Temperature	150°F (65.5°C)
Maximum Supply Pressure	
Port Threads	
Weight	4.0 lb. (1.8 kg)

Materials of Construction

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



Polycarbonate bowls, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls should not be exposed to chlorinated hydro-carbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Metal bowl guards are recommended for all applications.

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.



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