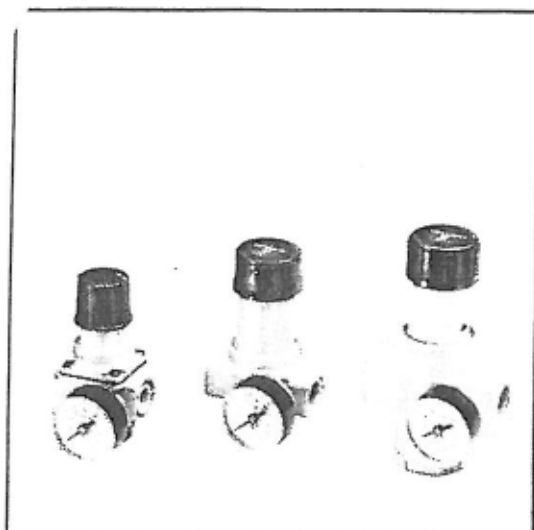


# NORGREN Designer™ Series R08, R12 & R17 General Purpose Compressed Air Regulators

NC-272  
 January 1990  
 Supersedes November 1983



NORGREN Designer General Purpose Regulators are used in compressed air systems to reduce system pressure to a level which can be used to operate air tools and other air operated equipment, and to maintain the reduced pressure at a constant level despite changes in the inlet pressure and changes in downstream flow requirements. **Standard regulators listed in the following table are relieving regulators with a pressure gauge and PTF threads.** Options include T-handle adjustment, nonrelieving regulators, regulators without gauge, and ISO G threads.

## Ordering Information

Type	Port Size PTF	MODEL NUMBERS				
		5 to 50 psig (0.3 to 3.5 bar)	5 to 60 psig (0.3 to 4.1 bar)	5 to 125 psig (0.3 to 8.6 bar)	5 to 150 psig (0.3 to 10.4 bar)	12 to 250 psig (1.0 to 17.2 bar)
R08	1/4	—	R08-200-RGFA	—	R08-200-RGMA	R08-200-RGSA
	3/8	—	R08-300-RGFA	—	R08-300-RGMA	R08-300-RGSA
	1/2	—	R08-400-RGFA	—	R08-400-RGMA	R08-400-RGSA
R12	<b>R12 IS OBSOLETE. REPLACED WITH R74. SEE NORGREN CATALOG NCA-33.</b>					
R17	3/4	R17-600-RGEA	—	R17-600-RGLA	—	R17-600-RGSA
	1	R17-800-RGEA	—	R17-800-RGLA	—	R17-800-RGSA
	1-1/4	R17-A00-RGEA	—	R17-A00-RGLA	—	R17-A00-RGSA
	1-1/2	R17-B00-RGEA	—	R17-B00-RGLA	—	R17-B00-RGSA

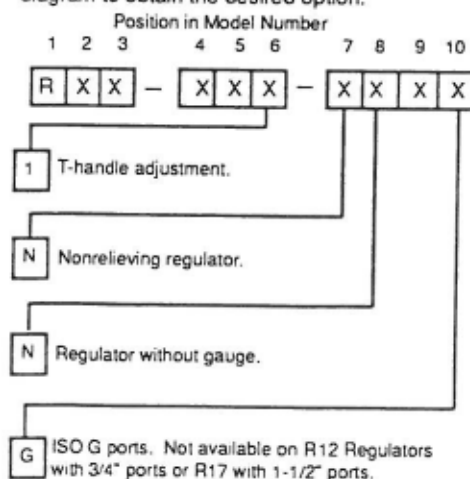
\* Outlet pressure adjustment ranges are not minimum or maximum pressure limits. Regulators can be adjusted to zero psig outlet pressure and, generally, to pressures in excess of those specified. The use of these regulators to control pressures outside of the specified ranges is not recommended.

### Features

- Accurate and quick response to flow demands and line pressure changes.
- Low torque non-rising pressure adjustment knob provides easy hand adjustment at any pressure. The knob has an integral locking device which can be made tamper resistant by the addition of an optional seal wire.
- Balanced valve minimizes effect of variations in inlet pressure on the outlet pressure.
- Standard relieving models allow reduction of outlet pressure even when the system is dead-ended.
- Full flow gauge ports.
- Easily disassembled for servicing without removal from air line.
- The R08 is available as a modular unit without port threads. See NORGREN Publication NCA-12 for information.

### Options

Note the model number in the order table that comes closest to the desired regulator. Change the model number as shown in the following diagram to obtain the desired option.



### Accessories

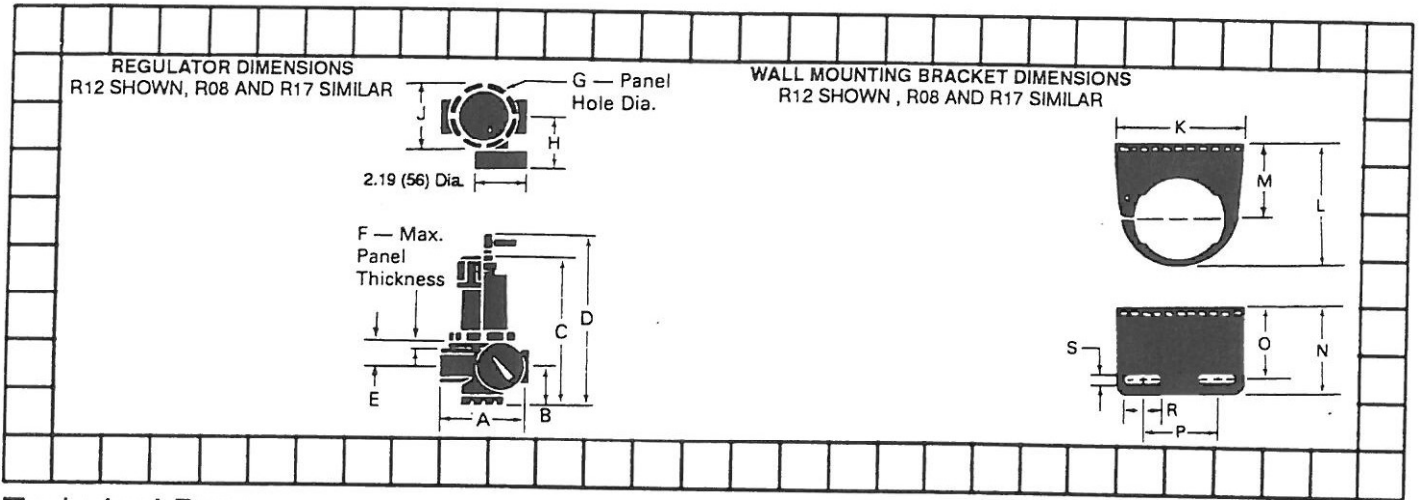
	R08	R12	R17
Mounting Bracket & Panel Nut	5203-06	5514-06	5570-04
Plastic Panel Nut	5191-89	5226-89	5226-89
Metal Panel Nut	5191-88	5226-97	5226-97
Tamper Resistant Seal Wire	2117-02	2117-01	2117-01

### Repair Kits

	R08	R12	R17
O-rings, Valve Spring, Valve & Diaphragm Kit			
Relieving	5298-14	5550-08	5578-02
Nonrelieving	5298-13	5550-07	5578-01

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# Technical Data



## Technical Data

**DIMENSIONS — ALL DIMENSIONS IN INCHES (MM)**

Type	A	B	C	D	E	F	G	H	J		K	L	M	N	O	P	R	S
									With Panel Nut	Without Panel Nut								
R08	2.75 (70)	1.44 (37)	5.12 (131)	5.41 (137)	2.22 (56)	0.19 (5)	1.89 (48)	2.50 (64)	2.25 (57)	2.00 (51)	2.50 (64)	2.75 (70)	1.50 (38)	1.50 (38)	1.00 (25)	1.50 (38)	0.66 (17)	0.28 (7)
R12	3.50 (89)	1.50 (38)	5.88 (149)	6.86 (174)	0.72 (18)	0.19 (5)	2.28 (58)	2.25 (57)	2.65 (67)	2.25 (57)	3.50 (89)	3.38 (86)	2.06 (52)	1.98 (50)	1.51 (38)	2.20 (56)	0.94 (24)	0.28 (7)
R17	4.25 (108)	2.38 (60)	7.09 (180)	8.07 (205)	1.22 (31)	0.16 (4)	2.28 (58)	2.92 (74)	2.65 (67)	2.38 (60)	3.50 (89)	4.50 (114)	3.19 (81)	1.75 (44)	1.19 (30)	2.16 (54)	1.08 (28)	0.28 (7)

### Specifications

Fluid: Compressed Air  
 Inlet Pressure: 300 psig (20.7 bar) maximum.  
 Temperature Range: 0° to 175°F (-18° to 79°C) with dewpoint of supply air less than air temperature below 35°F (2°C).  
 Gauge Ports: 1/4" PTF

### Materials of Construction

**R08:**  
 Body and Bonnet: Zinc  
 Valve: Brass  
 Elastomers: Nitrile  
 Bottom Plug: Acetal

**R12:**  
 Body: Zinc  
 Bonnet: Aluminum  
 Valve: Brass  
 Elastomers: Nitrile  
 Bottom Plug: Nylon

**R17:**  
 Body, Bonnet, Bottom Plug: Aluminum  
 Valve: Aluminum and Nylon  
 Elastomers: Nitrile

### Graphic Symbols

