



Actuators



Pneumatic control and process valves



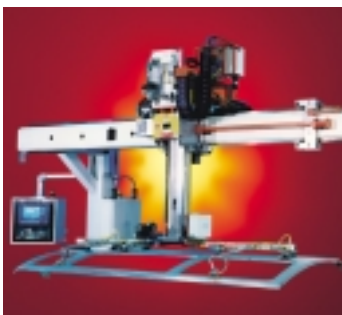
Air preparation



Fittings and accessories



Handling components



Handling systems

Norgren market companies worldwide

AUSTRALIA
Tel: + 61 3 9213 0800
Fax: + 61 3 9213 0890

AUSTRIA
Tel: + 43 2236 63 520
Fax: + 43 2236 63 520 20

BELGIUM AND LUXEMBURG
Tel: + 32 2 376 60 20
Fax: + 32 2 376 26 34

BRAZIL
Tel: + 55 11 522 1066
Fax: + 55 11 523 2259

CANADA
Tel: + 1 905 625 4060
Fax: + 1 905 625 8273

CHINA
Tel: + 86 21 648 57935
Fax: + 86 21 649 56042

CZECH REPUBLIC
North
Tel: + 42 0446 2010
Fax: + 42 0446 2010
South
Tel: + 42 06296 33404
Fax: + 42 06296 33404

DENMARK
Tel: + 45 44 91 41 66
Fax: + 45 44 91 15 60

FRANCE
Tel: + 33 1 60 05 92 12
Fax: + 33 1 60 06 08 52

GERMANY & EASTERN EUROPE
Tel: + 49 28 02 490
Fax: + 49 28 02 49356

HONG KONG
Tel: + 85 2 2492 7608
Fax: + 85 2 2498 5878

HUNGARY
Tel: + 36 1 284 9000
Fax: + 36 1 284 8980

IRELAND
Tel: + 35 318 300 288
Fax: + 35 318 300 082

ITALY
Tel: + 39 039 60 631
Fax: + 39 039 60 63 301

JAPAN
Tel: + 81 6 876 8913
Fax: + 81 6 876 8929

MA LAYSIA
Tel: + 60 3 5219 255
Fax: + 60 3 5212 889

MEXICO
Tel: + 52 5 565 7521
Fax: + 52 5 565 7072

NETHERLANDS
Tel: + 31 20 682 2751
Fax: + 31 20 682 0983

NEW ZEALAND
Tel: + 64 9 579 0189
Fax: + 64 9 526 3397

NORWAY
Tel: + 47 67 90 82 01
Fax: + 47 67 97 06 24

SINGAPORE
Tel: + 65 862 1811
Fax: + 65 862 1916/7

SLOVENIA
Tel: + 38 661 573 688
Fax: + 38 661 571 212

SPAIN
Tel: + 34 3 731 0000
Fax: + 34 3 783 0838

SWEDEN
Tel: + 46 46 19 67 50
Fax: + 46 45 15 25 95

SWITZERLAND
Tel: + 41 71 973 82 00
Fax: + 41 71 973 82 01

U K
Tel: + 44 1543 265 000
Fax: + 44 1543 265 811

USA
Tel: + 1 303 794 2611
Fax: + 1 303 795 9487

Automotive Division
GERMANY
Tel: + 49 61 22 9093 0
Fax: + 49 61 22 9093 99

ITALY
Tel: + 39 11 95 710 43
Fax: + 39 11 95 72 715

PACIFIC/SOUTH AMERICA
Tel: + 1 810 294 9500
Fax: + 1 810 294 7830

U K
Tel: + 44 1543 405300
Fax: + 44 1543 405350

USA
Tel: + 1 810 294 9500
Fax: + 1 810 294 9715



GLOBAL SERVICE NETWORK

Norgren is a leading world manufacturer and supplier of pneumatic solutions, offering a comprehensive range of pneumatic components and automation systems via a global sales and service network which covers 70 countries worldwide. The company is a principal member of the diverse and internationally successful £1.4 billion IMI Group.



The Roundel, 'Norgren' and 'IMI' are registered trade marks. © IMI Norgren Limited 1998. Due to our policy of continued development, Norgren reserve the right to change specifications without prior notice.

R27 Precision Pressure Regulator



- Stability
- Precision
- Durability

Distributed by:
Coulton Instrumentation Ltd.,
17 Somerford Business Park,
Christchurch, BH233RU,
England.
Telephone: (01202) 480 303
Fax: (01202) 480 808
Email:sales@coulton.com

The R27 Precision Pressure Regulator

Stability

Precision

Precision pressure control, a requirement in many industrial applications, is often complicated by changes in supply pressure, flow and ambient temperature. The R27 precision regulator is designed to give stable and accurate pressure control under conditions of flow and zero flow (dead end). Using proven instrumentation technology the R27 can add a degree of precision to any application imaginable using more traditional regulation solutions.

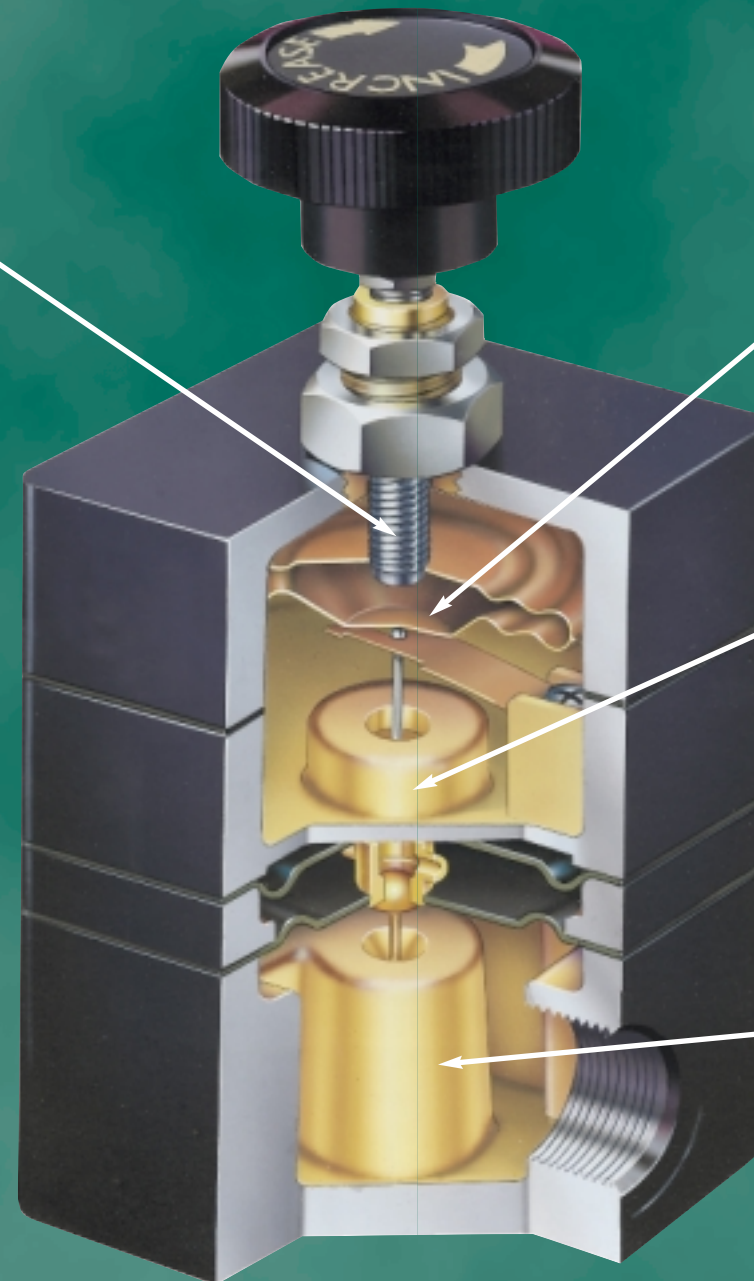
Control stem - double start threads to allow high resolution

Beryllium copper capsule - responds to any pressure variation to give output stability regardless of flow or supply pressure variation

Low volume pilot chamber - has small constant bleed to ensure responsiveness under dead end conditions

Pneumatically balanced, servo controlled poppet valve design - high flow under forward and relief conditions

- **DEAD-END APPLICATIONS** - the R27 is designed to control pressure under forward and relief flow conditions. This makes it ideal for use with actuators and closed volumes.
- **PRECISION** - with accuracies of 0.02%, sensitivity better than 0.3mbar (0.005psi) and hysteresis and repeatability less than 0.05%, this regulator provides precision control under the most adverse operating conditions.
- **STABILITY** - the integrated measuring capsule, a sophisticated barometric measuring element, offers extreme stability under all operating conditions.
- **SIMPLE DESIGN** - the R27's uncomplicated design is effective and reliable, providing accuracy and precision in thousands of applications around the globe.



Product Selection

Please quote the following part numbers when ordering

R27: Precision Pressure Regulator
200: Handwheel Operated
230: Lever Operated
232: Plunger Operated
234: Pneumatic Relay
236: Pneumatic Relay with manual bias

RNC: 0.14 - 2 bar range
RNF: 0.14 - 4 bar range
RNL: 0.14 - 8 bar range

G: G1/4

eg R27 230 RNFG is a lever operated 0.14 - 4 bar unit.

Specification at a glance

Output pressure	See product selector
Max supply pressure	10 bar (140 psig)
Air supply	Oil free, dry air or other gases, filtered to 25 microns
Flow capacity	Up to 300 l/min (10 scfm).
Response time	Less than 0.2 seconds for 50% load change
Hysteresis and Repeatability	Less than 0.05% at mid-range
Sensitivity	Better than 0.3mbar (0.005psi)
Temperature effect	Better than +/-1% change of full span between -20C and +70C
Weatherproof	IP65
Vibration effect	Unaffected by moderate vibration
Mounting orientation	Any, integral mounting nut supplied

