† COMPRESSED AIR REGULATORS

OLYMPIAN PLUG-IN DESIGN FOR 6mm, 8mm & 10mm O/D TUBING INSTALLATIONS

FEATURES

- Simplicity at its best neat OLYMPIAN DESIGN for small air lines provides for very rapid installation and maintenance and dispenses with inter connecting unions, elbows and other fittings to save substantial material and lábour costs.
- Superior flow and regulation characteristics.
- Relieving or Non-Relieving types.
- Handsome plastic knob has Snap-Action lock to prevent accidental alteration of pressure setting. Can be tamperproofed.
- Floating valve pin, balanced valve and syphon tube for sensitive operations. Positive diaphragm stop.
- Unidaptor has two G\(\) gauge/auxiliary ports

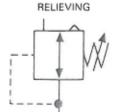
ORDER TABLE

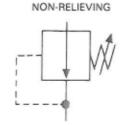
REDIMOUNT REGULATORS ready for immediate installation. For Basic Units see table on page 2.

PORT	7 bar SPRING		
SIZE	RELIEVING	NON-RELIEVING	
G% G% G%	R10-100-RNKD R10-200-RNKD R10-300-RNKD	R10-100-NNKD R10-200-NNKD R10-300-NNKD	
	10 bar SPRING		
G% G% G%	R10-100-RNMD R10-200-RNMD R10-300-RNMD	R10-100-NNMD R10-200-NNMD R10-300-NNMD	

Specify if required complete with T10 Shut-Off Valve fitted upstream.

INTERNATIONAL PNEUMATIC SYMBOLS





SPECIFICATIONS

PORT SIZES: G1/4, G1/4, G1/4

Standard ports to ISO 1179. Accepts ISO 228 (BS 2779) Parallel, or ISO 7 (BS 21) Taper Connectors. For alternative threads consult factory.

RELIEVING TYPE

Alternative Non-Relieving Models

ADJUSTMENT

BLACK PLASTIC KNOB WITH SNAP ACTION LOCK Can be tamperproofed

REGULATED PRESSURES:

0.2- 7 bar (3-100 p.s.i.) Standard 0.4-10 bar (5-150 p.s.i.) Optional

MAXIMUM INLET PRESSURE:

20 bar (300 p.s.i.)

MAXIMUM TEMPERATURE:

80°C (175°F)

GAUGE PORTS: G%

Pressure Gauges must be ordered separately.

† For Compressed air only. Do not use with other gases

ACCESSORIES AND REPAIR KITS

8	T10 SHUT-OFF VALVE Exhaust Type with provision for locking in OPEN or SHUT position	G% T10-100-E2AD G% T10-200-E2AD G% T10-300-E2AD
	WALL MOUNTING BRACKET KITS Two 'handed' brackets and necessary screws for mounting to vertical surface. Alternative inward tacing 'handed' brackets and screws	18-001-970
®	PRESSURE GAUGES 40mm dial with black case and R% centre back connection. Dual calibration	0 - 1.6 bar 18-013-991 0 - 4 bar 18-013-990 0 - 10 bar 18-013-989 0 - 25 bar 18-013-908
	REPAIR KITS Relieving Models Non-Relieving Models	R10-100R R10-100N

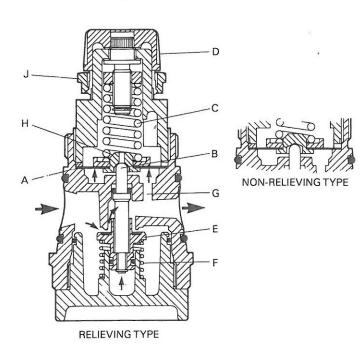
OPERATION

Working elements of the regulator principally comprise a flexible diaphragm (A) which controls the position of valve pin (B), regulating spring (C) which is loaded by means of adjusting knob* (D), balanced valve (E) and valve spring (F).

The underside of the diaphragm is pressurised by outlet secondary air pressure through cast hole (G). When the adjusting knob is fully anticlockwise no load is applied to the regulating spring, and the valve is shut. As the knob is turned clockwise it loads the spring which deflects the diaphragm and causes the valve pin to open the valve. As the secondary pressure downstream of the valve increases, so the pressure under the diaphragm increases and forces the diaphragm upwards until the load exerted by the regulated pressure equals the spring loading and so provides the selected pressure. When there is no-flow demand this state of equilibrium will allow the valve spring to close the valve. If there is a flow demand the balance will occur with the valve open just the amount necessary to compensate for the demand, thus maintaining the required regulated pressure.

On standard Relieving type models any excess build-up in regulated pressure is vented through the elastomeric relief seat (H) and out through the bonnet to atmosphere.

* Note: To adjust the pressure setting, lift the snap action locking ring (J) and turn the adjusting knob. After adjustment simply push down the ring to lock the setting.



BASIC REGULATOR

(For Replacement, also Build-up of Combination Units)

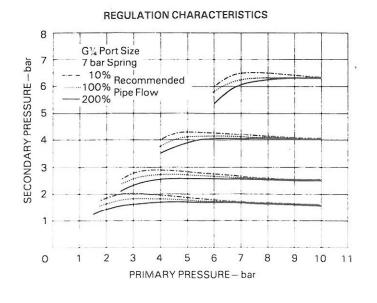


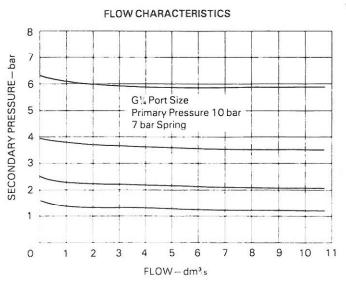
The main component of a Redimount Regulator. The Basic Regulator has plain UNTHREADED inlet and outlet ports with 'O' rings which seal with mating faces in the Unidaptor when the regulator is 'plugged-in'. THEY CAN BE USED IN ¼, ¼ OR ¾ UNIDAPTORS THEREBY PROVIDING A SUBSTANTIAL REDUCTION IN SPARES HOLDING REQUIREMENTS IN LARGE PLANTS.

ORDER TABLE - BASIC REGULATORS

	7 bar Spring	10 bar Spring
RELIEVING	R10-000-RNKO	R10-000-RNMO
NON-RELIEVING	R10-000-NNKO	R10-000-NNMO

TYPICAL PERFORMANCE CHARACTERISTICS





SIMPLE SERIES 10 OLYMPIAN CONCEPT

 BASIC UNITS — Filters, Pressure-Regulators, Filter-Regulators and Oil-Fog or Micro-Fog Lubricators with 'O' Ring Seals.



UNIDAPTORS — include clamp ring(s)
 Single or Double Unidaptors threaded
 %, ¼ or ¾ provide the frame ready
 to receive the Basic Units.



 REDIMOUNTS — the items you order. Unidaptors with Selected Basic Units installed ready for immediate assembly into the air line.



TO REMOVE A UNIT-

i) Shut off the compressed air — this is merely a 1/4 turn of the Exhaust Shut-Off Valve if fitted (this valve also exhausts downstream systems) — alternatively use the nearest valve upstream and vent line. ii) Unscrew the appropriate Clamp Ring and withdraw the unit. The Pressure Gauge (if fitted) remains with the Yoke Assembly. iii) Inspect the unit.



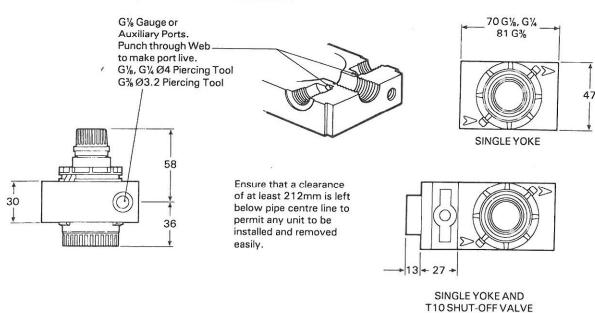
TO REPLACE A UNIT-

i) Position clamp ring under yoke retaining lugs.

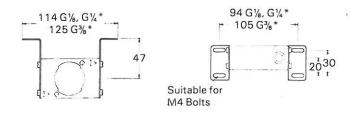
ii) Check Unit 'O' Ring Seals are in position.
iii) Position Unit so that 'key' on top of
upstream side of the body will fit into the slot
in upstream side of yoke (arrows on yoke
indicate direction of flow).
iv) Plug-in Unit. Screw up Clamp Ring hand
tight.

v) Turn on Air supply.

DIMENSIONS (mm) — Transparent and Metal Bowl Units

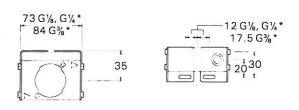


BRACKET MOUNTING (mm)



OUTWARD FACING

* Note: If Shut-Off Valve is fitted, add 27mm to dimensions



INWARD FACING