

Designed for systems that require pressure regulation at an inaccessible location.

A pilot regulator (ordered separately) controls the outlet pressure of the pilot operated regulator.



### Technical data

#### Fluid:

Compressed air

#### Inlet pressure range:

10 psig (0.7 bar) minimum to  
450 psig (31 bar) maximum

#### Operating temperature:

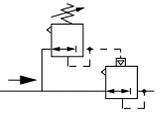
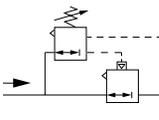
0° to 175°F (-18° to 80°C)\*  
\* Air supply must be dry enough to  
avoid ice formation at temperatures  
below 35°F (2°C).

#### Materials

Body, bonnet, bottom plug, valve:  
aluminum  
Elastomers: nitrile

### Ordering information

Models listed include relieving diaphragm and PTF threads. Requires a pilot regulator (ordered separately).

ISO Symbols	Port Size	Model	Flow† scfm (dm <sup>3</sup> /s)	Weight lb (kg)
 R18 with Conventional Pilot Regulator	1-1/2"	R18-B00-RNXA††	2000 (944)	6.82 (3.09)
 R18 with Feedback Pilot Regulator	2"	R18-C00-RNXA††	2000 (944)	6.61 (2.99)

† Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.

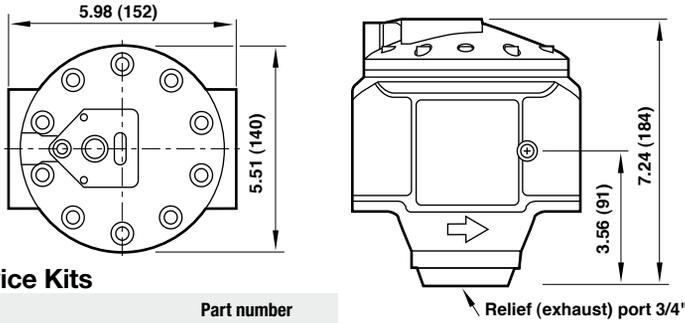
†† Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

### Alternative Models -R18

R18-★00-★X★

Port Size	Substitute	Threads	Substitute
1-1/2"	B	PTF	A*
2"	C	ISO G parallel	G
Diaphragm	Substitute	Gauge	Substitute
Relieving	R	Without	N
Non relieving (do not use with a feedback pilot regulator)	N	With	G

\* A factory installed gauge is only available with PTF threads (A in the last position of model number).

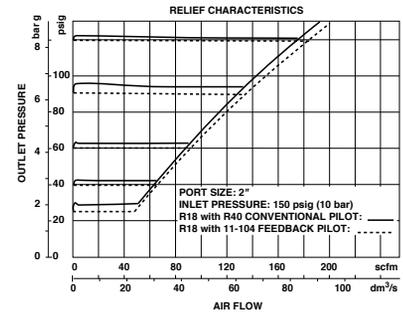
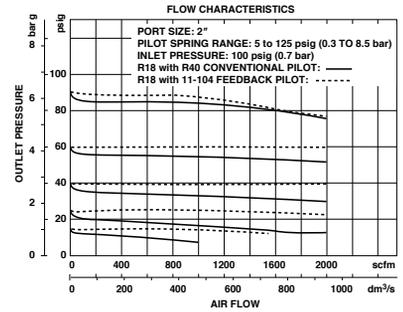


**Service Kits**

Type	Part number
R18	5945-40

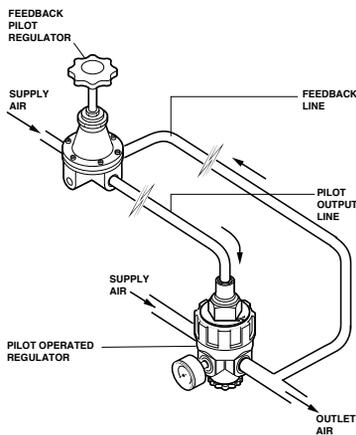
R18 service kit contains filter screen and all o-rings.

**Typical Performance Characteristics**



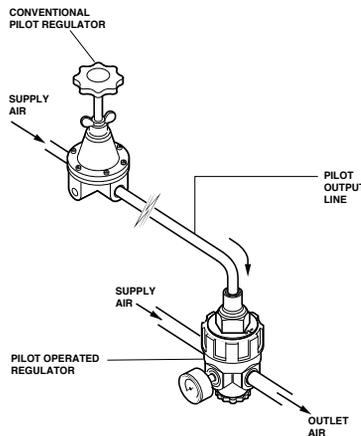
**Typical Installation**

Feedback Pilot and Pilot Operated Regulator



**Typical Installation**

Conventional Pilot and Pilot Operated Regulator



**Feedback Pilot Regulator Warning**

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise. **NOTE:** Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures. Feedback pilots are designed for applications that require superior pressure regulation under changing flow conditions where changes in flow demand are not sudden or cyclic.