General Purpose Regulators

R17, R18

R17

High flow regulator, 3/4" to 1-1/2" ports

R18

High flow pilot regulator, 1-1/2" and 2"

Provides rapid response, superior pressure regulation, and excellent stability.

Constant bleed feature in pilot regulator provides quick response and maintains accurate downstream pressures

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

R17

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-30°F to 175°F (-34° to 80°C) (R17)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Materials

Body: aluminum
Bonnet: aluminum
Bottom plug: acetal
Valve: aluminum and nylon
Elastomers: nitrile

R18

Inlet pressure range:

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

Operating temperature:

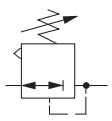
0°F to 175°F (-18° to 80°C) (R17)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

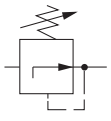
Materials

Body: aluminum
Bonnet: aluminum
Bottom plug: aluminum
Pilot Operated Regulator: aluminum
Elastomers: Nitrile

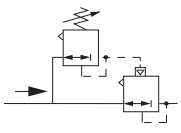
ISO Symbols



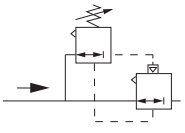
R 17 Relieving



R17 Non relieving



R18 with Conventional Pilot Regulator



R18 with Feedback Pilot Regulator

R17

R18

Ordering Information

Models listed have PTF threads, knob adjustment, relieving type diaphragm, and gauge,

Port Size	Model Number	Flow† scfm (dm3/s)	Weight lbs (kg)
1"	R17 800 RGLA	480 (227)	2.02 (0.92
2"	R18 C05 RGLA	2000 (944)	8.27 (3.75)

† 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.

Alternative Models

R17 ★0★ ★★★★

Port Size	Substitute
3/4"	6
1"	8
1-1/4"	A
1-1/2"	B

Adjustment	Substitute
Knob	0
T-bar	1

Threads	Substitute
PTF	A
ISO G	G

Outlet Pressure Adjustment Ranges*	Substitute
5 to 50 psig (0.3 to 3.5 bar)	E
5 to 125 psig (0.3 to 8.5 bar)	L
10 to 250 psig (0.7 to 17 bar)	S

Gauges	Substitute
With	G
Without	N

Diaphragm	Substitute
Relieving	R

R18 ★★★ ★★★★

Port Size	Substitute
1-1/2"	B
2"	C

Pilot Regulator Type	Substitute
R40 Conventional	05
R41 Feedback **	06

Diaphragm	Substitute
Relieving	R
Non relieving	N

Port Threads	Substitute
PTF	A
ISO G	G

Outlet Pressure Adjustment Ranges*	Substitute
5 to 50 psig (0.3 to 3.5 bar)	E
5 to 125 psig (0.3 to 8.5 bar)	L
10 to 250 psig (0.7 to 17 bar)	S

Gauges	Substitute
With	G
Without	N

* Outlet pressures can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** Requires relieving diaphragm and 250 psig (17 bar) spring (**R** in 7th position and **S** in 9th position) e.g. R18-B06-**R**N**S**G . The 06 option cannot be used at an outlet pressure below 100 psig. For feedback control at pressures below 100 psig use an 11-104-001 with a pilot operated R18.

NOTE: The R18 can be used with other pilot regulators and proportional valves such as 11-400, 20-AL, 11-104, VP50 and VP51

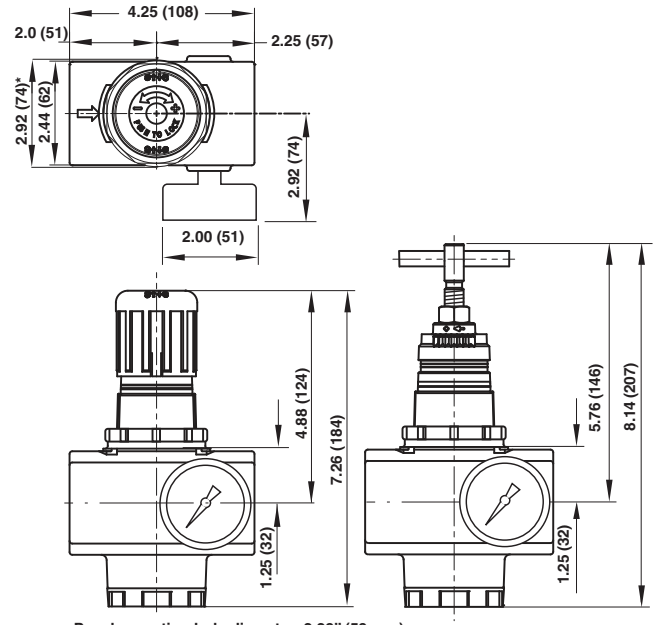
General Purpose Regulators

R17, R18

Dimensions in inches (mm).

Panel mounting hole diameter: 2.28" (58 mm)
Panel thickness: 0.06" to 0.16" (2 to 4 mm)

R17

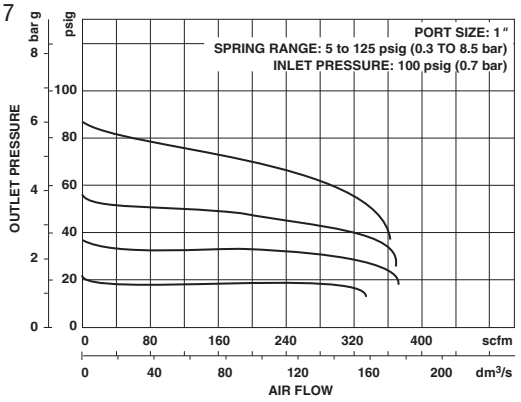


Panel mounting hole diameter: 2.28" (58 mm)
Panel thickness: 0.06" to 0.16" (2 to 4 mm)

***OD of panel mount nut. Nut not included**

Typical Performance Characteristics

R17

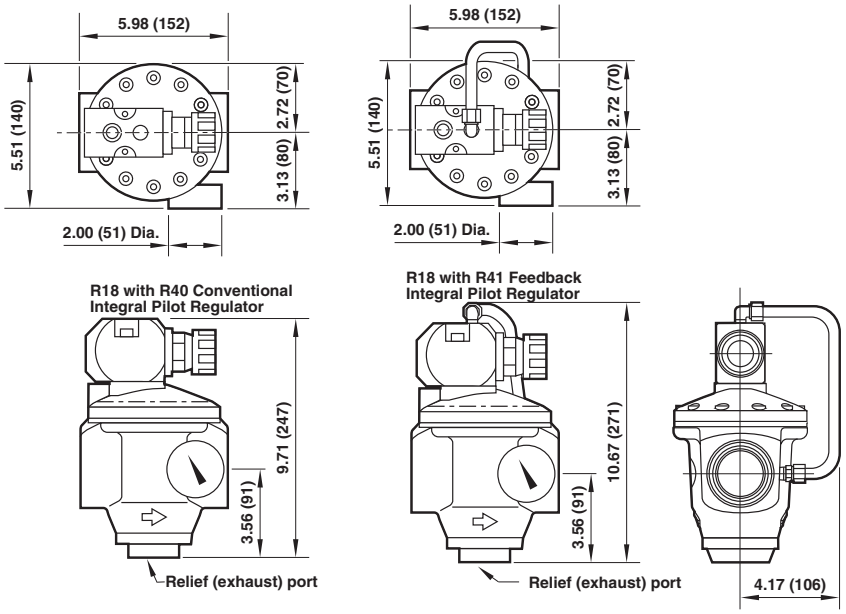


Service Kits

Item	Type	Part number
Service kit	Relieving	5578-02
	Non relieving	5578-01

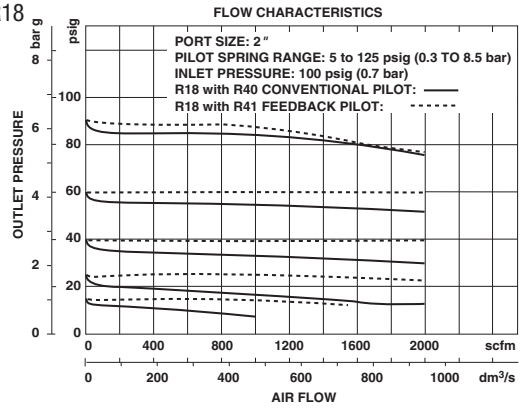
Service kit contains, diaphragm, all o-rings, valve, and valve spring.

R18



Typical Performance Characteristics

R18



Service Kits

Item	Type	Part number
Service kits	R18 Pilot operated regulator**	5945-40
	R40 and R41 Pilot regulators†	5945-41

** Contains filter screen and all o-rings for R18 pilot operated regulator.

† Contains diaphragm, valve spring, valve, guide bushing, filter screen, and all o-rings for R40 and R41 pilot regulators.