

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

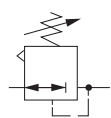
Bonnet: aluminum

Bottom plug: aluminum

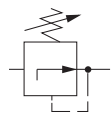
Pilot Operated Regulator: aluminum

Elastomers: Nitrile

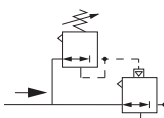
ISO Symbols



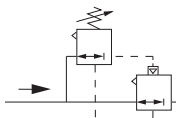
R 17 Relieving



R17 Non relieving



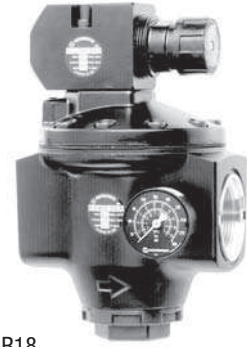
R18 with Conventional Pilot Regulator



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 (dm ³ /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

Port Size	Substitute	Threads	Substitute
3/4"	6	PTF	A
1"	8	ISO G	G
1-1/4"	A		
1-1/2"	B		
Adjustment	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
Knob	0	5 to 50 psig (0.3 to 3.5 bar)	E
T-bar	1	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

Port Size	Substitute	Port Threads	Substitute
1-1/2"	B	PTF	A
2"	C	ISO G	G
Pilot Regulator Type	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
R40 Conventional	05	5 to 50 psig (0.3 to 3.5 bar)	E
R41 Feedback **	06	5 to 125 psig (0.3 to 8.5 bar)	L
		10 to 250 psig (0.7 to 17 bar)	S
Diaphragm	Substitute	Gauges	Substitute
Relieving	R	With	G
Non relieving	N	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-RNSG. 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

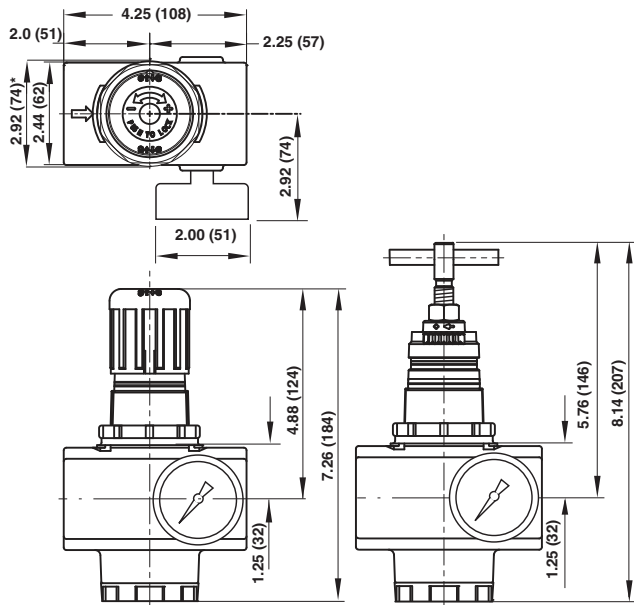
General Purpose Regulators

R17, R18

Dimensions in inches (mm).

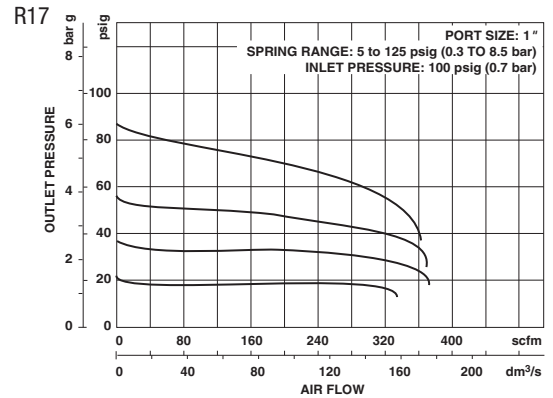
Panel mounting hole diameter: 2.28" (58 mm)
 Panel thickness: 0.06" to 0.16" (2 to 4 mm)

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

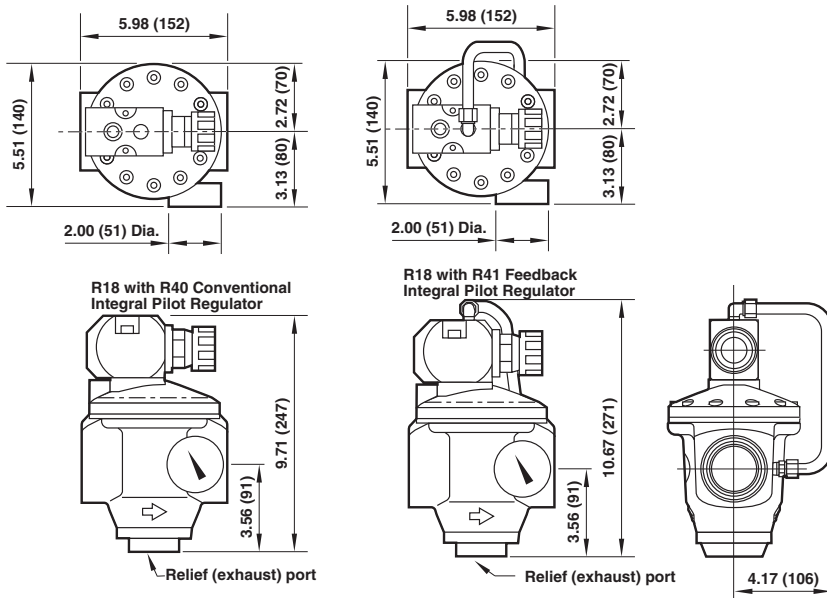


Service Kits

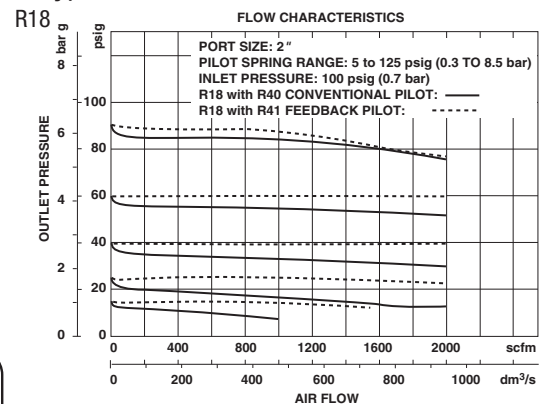
Item	Type	Part number
Service kit	Relieving	5578-02
	Non relieving	5578-01

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

R18



Typical Performance Characteristics



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.