



Standard 07R Series

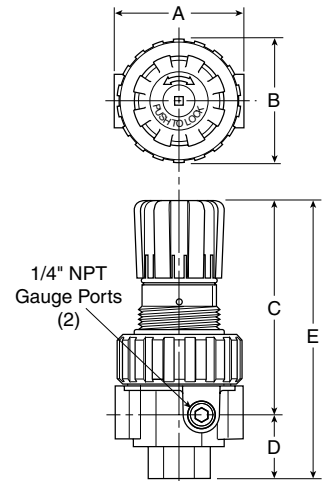
A

07R Regulators – Standard



Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Easily serviced.
- Removable non-rising knob for panel mounting and tamper resistance.
- High Flow: 3/8" – 70 SCFM§
1/2" – 90 SCFM§
3/4" – 90 SCFM§



Port Size	NPT
Without Gauge	
3/8"	07R213A*
1/2"	07R313A*
3/4"	07R413A*
With 160 PSI Gauge	
3/8"	07R218A*
1/2"	07R318A*
3/4"	07R418A*

07R Regulator Dimensions		
A	B	C
3.24 (82)	2.74 (70)	4.79 (122)
D	E	
1.61 (41)	6.40 (163)	

Inches (mm)

Standard part numbers shown bold. For other models refer to ordering information below.

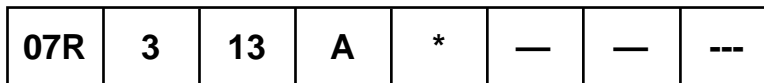
NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

⚠ WARNING

**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

Ordering Information



Port Size 2 3/8 Inch 3 1/2 Inch 4 3/4 Inch	Pressure Range <u>Without Gauge</u> 10 30 PSIG 11 60 PSIG 13 125 PSIG 15 250 PSIG <u>With Gauge**</u> 17 30 PSIG 16 60 PSIG 18 125 PSIG 21 250 PSIG ** Includes 1-1/2" Dial Face Gauge	Relief A Relieving L Non-Relieving H Low Temp. Relieving J Low Temp. Non-Relieving	Engineering Level * Will be Entered at Factory	Port Type Blank NPT 1* BSPP 2 BSPT * 3/8 & 1/2 inch meet ISO 1179-1 Standard.	Options Blank No Options L† Preset Non-Adjustable P† Preset Adjustable R Reverse Flow † Inlet Pressure is 100 PSIG. For other pressures, contact factory.	Preset / Pressure Limited Blank None XXX* Preset Pressure * Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)
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Spring Type by Preset / Limited Pressure:
 For Preset / Limited Pressure 10 to 25 use 30 PSI Spring
 For Preset / Limited Pressure 26 to 50 use 60 PSI Spring
 For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

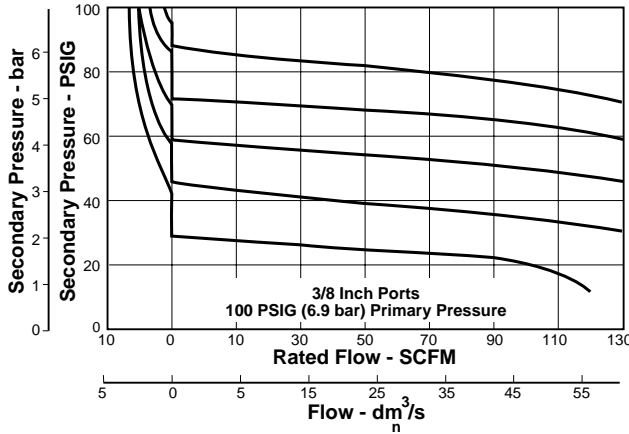
BOLD ITEMS ARE MOST POPULAR.



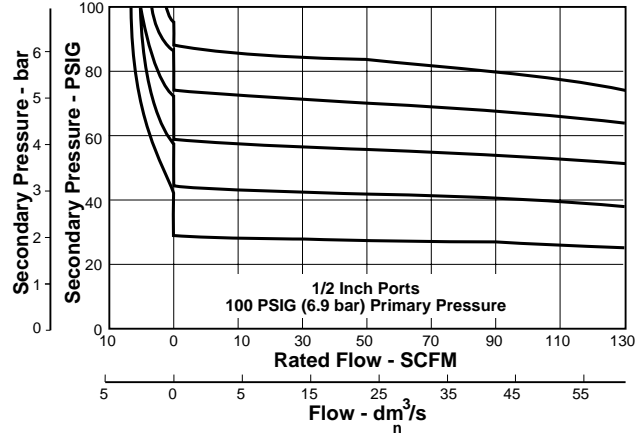


Technical Information

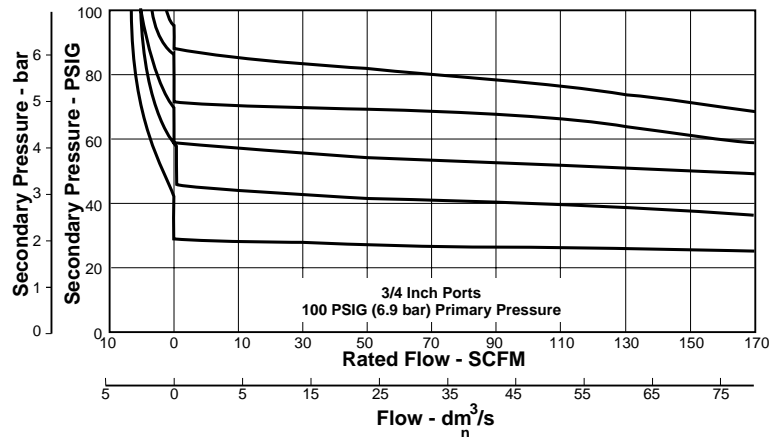
Relief And Flow Characteristics
07R213A*



Relief And Flow Characteristics
07R313A*



Relief And Flow Characteristics
07R413A*



CAUTION:

REGULATOR PRESSURE ADJUSTMENT –

The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

07R Regulator Kits & Accessories

Bonnet Assembly Kit	PS715P
Control Knob	P04069B
Gauges – 60 PSIG (0 to 4.1 bar)	K4520N14060
160 PSIG (0 to 11.0 bar).....	K4520N14160
300 PSIG (0 to 20.0 bar).....	K4520N14300
Mounting Bracket Kit (Includes Panel Mount Nut).....	PS807P
Panel Mount Nut – Plastic	P04082
Metal	P04079B
Pressure Sensor – MPS-32.....	(See pages C32-C38)
Reverse Flow Service Conversion Kit – Relieving	PS808RP
Service Kit – Relieving (Includes Poppet).....	PS808P
Non-Relieving (Includes Poppet).....	PS809P
Springs – 1-30 PSIG Range.....	P01698
1-60 PSIG Range.....	P04062
2-125 PSIG Range.....	P04063
5-250 PSIG Range.....	P04064
Tamperproof Kit	PS737P

Specifications

Gauge Ports (2).....	1/4 Inch (Can be used as additional High Flow 1/4 Inch Outlet Ports)
Port Threads	3/8, 1/2, 3/4 Inch
Primary Pressure Rating – Maximum Primary Pressure.....	250 PSIG (17.2 bar)
Secondary Pressure Ranges – Standard Pressure	2 to 125 PSIG (0 to 8.6 bar)
Low Pressure.....	1 to 60 PSIG (0 to 4.1 bar)
High Pressure.....	5 to 250 PSIG (0.4 to 17.2 bar)
Temperature Rating.....	32°F to 175°F (0°C to 80°C)
Low Temperature.....	-4°F to 125°F (-20°C to 52°C)
Weight	2.5 lb. (1.1 kg)

Materials of Construction

Adjusting Stem	Steel
Body	Zinc
Bonnet, Piston Stem, Valve Poppet & Cap	Plastic
Collar, Knob.....	Plastic
Diaphragm	Nitrile
Seals	Nitrile
Springs – Poppet.....	Stainless
Control	Steel

