



Service Regulators:

Models 043, 143-6, and 143-80



043

Max. Inlet Pressure = 125 PSI
 Max. Outlet Pressure = 2 PSI
 Max. Capacity = 1,000 SCFH



143-6

Max. Inlet Pressure = 125 PSI
 Max. Outlet Pressure = 6 PSI
 Max. Capacity = 2,400 SCFH



143-80

Max. Inlet Pressure = 125 PSI
 Max. Outlet Pressure = 6 PSI
 Max. Capacity = 2,400 SCFH

Overview

Equimeter's service regulators have a simple, modern design and rugged construction, offering greater dependability, precise pressure control, and outstanding performance. They are designed to be installed in numerous mounting positions and are simple to adjust and service. The union nut style connection on the 143-80 makes it especially easy to adjust.

Applications

Equimeter's family of service regulators is designed and built for domestic gas service, as well as some commercial and industrial applications such as burners, furnaces, ovens, heaters, gas engines, etc. Although mainly used with natural gas, they perform as well when used with air, LPG, dry CO₂, propane, and other gases. Operating temperatures range from -20° F to 150° F. The 043, 143-6, and 143-80 service regulators are not recommended for buried service.

Dimensions and Specifications

Regulator Model		Working Pressure (PSI)		Capacity (SCFH)		Dimensions (in.)						Shipping Weight (lbs.)
						Height		Width		Depth		
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
043-	90, 91, 92, 180, 181, 182	.5	125	50	1,000	6 ¹ / ₁₆	6 ⁵ / ₁₆	8	8 ³ / ₁₆	*	*	3-5
143-6-	91, 92, 181, 182 91HP, 92HP, 181HP, 182HP	.5	125	250	2,400	*	7 ²³ / ₃₂	*	11	*	*	7
	184, 186	.5	60		1,300							
143-80-	1, 2, 1HP, 2HP	.5	125	250	2,400	*	7 ²³ / ₃₂	*	11	*	*	7
	4, 6	.5	60		1,300							

* Dimensions are affected by mounting position and angle or straight body configuration. See bulletins R-1300, R-1303, and R 1301 for specific dimensions.

Variations

043 Regulators

- Angled (043-90, -91, & -92) or straight-through (043-180, 043-181, & 043-182) bodies
- Variable mounting positions
- Standard or relief valve type diaphragm and vent valve
- 3/4" vent size with standard or relief valve type diaphragm and vent valve
- Pipe sizes: 3/4" or 1" (angled body); 3/8", 1/2", 3/4", or 1" (straight-through body)
- Five springs available to provide five different outlet pressure range: 3 1/2" w.c. to 2 psig.

143-6

- High pressure models
- Angled or straight-through bodies
- Variable mounting positions
- Regulator with internal relief valve
- Regulator with low pressure cut-off standard diaphragm
- Regulator with low pressure cut-off & IRV diaphragm
- Pipe sizes: 3/4" or 1" (angled body); 3/4", 1", or 1 1/4" (straight-through body)
- Seven springs available to provide seven different outlet pressure ranges:
3 1/2" w.c. to 6 psig
- See the following chart for model numbers of regulator variations

Basic Models	Description	High Pressure Models
143-6-91	Standard Regulator with 90° Angle Body	143-6-91HP
143-6-92	Regulator with Internal Relief Valve (IRV) and 90° Angle Body	143-6-92HP
143-6-181	Standard Regulator with Straight Body	143-6-181HP
143-6-182	Regulator with Internal Relief Valve (IRV) and Straight Body	143-6-182HP
143-6-184	Regulator with Low Pressure Cut-off (LPCO)	N / A
143-6-186	Regulator with IRV and LPCO	N / A

143-80

- Standard regulator
- Regulator with internal relief valve
- Standard regulator with low pressure cut-off
- Regulator with low pressure cut-off and IRV
- Pipe sizes: 3/4", 1", or 1 1/4"
- Seven springs available to provide outlet pressure ranges from 3 1/2 w.c. to 6 psig.

- See the following chart for model numbers of regulator variations.

Basic Models	Description	High Pressure Models
143-80-1	Standard Regulator	143-80-1HP
143-80-2	Regulator with Internal Relief Valve (IRV)	143-80-2HP
143-80-4	Regulator with Low Pressure Cut-off (LPCO)	N / A
143-80-6	Regulator with IRV and LPCO	N / A

Where To Find Additional Information

- See Equimeter bulletin R-1300 for more detailed information for 043 regulators.
- See Equimeter bulletin R-1303 for more detailed information for 143-6 regulators.
- See Equimeter bulletin R-1301 for more detailed information for 143-80 regulators.
- See Equimeter bulletin RM-1300 for installation and operating instructions, a detailed product breakdown, and part numbers for 043 regulators.
- See Equimeter bulletin RM-1303 for installation and operating instructions, a detailed product breakdown, and part numbers for 143-6 regulators.
- See Equimeter bulletin RM-1301 for installation and operating instructions, a detailed product breakdown, and part numbers for 143-80 regulators.