

North American 7344 Regulators

7344 Regulators maintain steady outlet pressures over varying inlet pressures. The regulator is small and yet allows high capacities. 7344 regulators may be used on main and pilot burners for industrial applications. These regulators are suitable for natural gas, LP gas and LP gas-air mixtures.

SPECIFICATIONS

Body Sizes and End Connections: 1/2" and 1" NPT
Maximum Operating Inlet Pressure: 10 psi
Capacities: See Table 2
Outlet pressure range (spring range): 4-12"wc
Maximum Emergency Inlet Pressure: 65 psi
Maximum Operating Outlet Pressure to Avoid Internal Parts Damage - The Outlet Pressure Rating: 2 psi
Temperature Capabilities: -40° to 205°F
Housing Material: Aluminum
Pressure Registration: Internal
Mounting: Multi-positional



SELECTION

Table 1 includes capacity data for the 7344 regulator product line. If the specific gravity of the gas is other than 0.6, divide the desired flow of the gas by the gravity factor to get the equivalent flow of gas. Gravity factors can be found in Table 1. Once the equivalent flow is determined, select the regulator from Table 2.

Table 1. Specific Gravity Correction

Sp Gr	Factor
0.4	1.22
0.6	1.00
1.0	0.774
1.5	0.632
2.0	0.547

Table 2. 7344 Capacities

Regulator designation	Outlet pressure setpoint	Capacities in cfh of 0.6 gravity natural gas with given inlet pressures					
		0.5 psi	0.75 psi	1 psi	2 psi	5 psi	10 psi
7344-01	4"wc	165	196	227	227	310	330
	7"wc	124	155	186	227	300	330
	10"wc	103	124	156	227	289	330
7344-1	4"wc	351	403	465	578	702	775
	7"wc	269	372	423	547	702	775
	10"wc	248	330	372	310	671	775

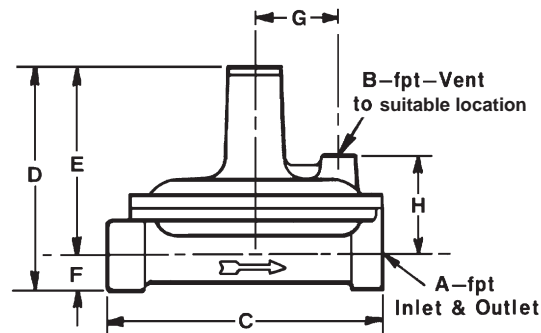
OVERPRESSURE PROTECTION

Like most pressure-reducing regulators, the North American 7344 Regulators have outlet pressure ratings that are lower than the inlet pressure ratings. Therefore, a pressure relieving or pressure limiting device is needed if the inlet pressure can exceed the maximum operating outlet pressure rating, see "Specifications". This regulator does not have an internal relief feature.

To determine wide-open flow capacity of a regulator for relief sizing, use the following chart.

Table 3. 7344 Capacities at Given Pressure Drops

Regulator designation	Capacities in cfh of 0.6 gravity natural gas with given regulator pressure drops					
	.25 psi	0.5 psi	0.75 psi	1 psi	2 psi	>2 psi
7344-01	149	211	258	298	310	330
7344-1	411	568	692	770	702	775



DIMENSIONS

Regulator designation	dimensions, inches									wt, lb
	A	B	C	D	E	F	G	H		
7344-01	1/2	1/8	4 1/8	3 1/2	2 7/8	5/8	1 1/4	1 1/2	3/4	
7344-1	1	3/8	5 7/8	5 1/4	4 5/16	1 5/16	1 3/4	2 1/2	1 1/2	

DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters' recommendations, and care in operation.



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