Line Pressure Regulators

Type 90
2-PSI I 5-PSI inlet



Technical Specifications

Rated inlet pressure: 2 PSI / 5 PSI
Outlet pressure setting:
5"-9"w.c.
7"-9"w.c.
7"-11 "w.c.
9"-12"w.c.
11"- 13"w.c.
Gases: Natural Gas or Propane
Code: The four digit code indicates the year and the calendar week, in which the regulator was manufactured (i.e. 1012: in twelfth week of 2010)
Ambient temp. range: -40/205°F (-40/96°C)
Pipe size NPT: 1/2" x 1/2"
Venting: Vent limiter "0" 3-18 1/8" NPT
Emergency exposure limits: 65 PSIG (4.5 BAR) inlet side only
Type 90: L 4.409 x W 3.956 x H 3.492" - Weight: 22.75 oz.

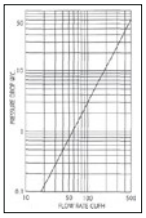
Applications

Type 90 OARA regulators are manufactured to supply the demands of both Line Pressure Regulators and Gas Appliance Regulators.

Features

- Precise regulating control of both full flow and of tiny pilot flows.
- All models are approved by IAS, in accordance with the two different standards.
- Manufactured in order to fulfil utility specifications for usage in residential, commercial and industrial applications.
- Materials of all component parts are carefully selected and corrosion-resistant.
- Diaphragm and washer are made of NITRILE RUBBER, which guarantees resistance to combustible gases.
- Rubber is selected to work at the following ambient temperatures: -40/205 °F (-40/96°().
- Housings are made of rugged die-cast aluminium.
- Regulators are supplied with a vent limiter type "0"3-18 thread 1/8" NPT. In case of diaphragm rupture, gas leakage is limited within ANSI standard levels.
- Manufacturing of the regulators in terms of balancing capacity guarantees excellent control of the outlet pressure in case of absence of flow.

PRESSURE DROP CHART



CAPACITIES based on 1" w.c. pressure drop from set point 0.64 sp gr gas expressed in BTU (PROPANE stabilizer)

Model	Outlet Pressure	½ PSIG= 34.5 mbar	¾ PSIG= 52 mbar	1 PSIG= 69 mbar	2 PSIG= 138 mbar	5 PSIG= 345 mbar
90	6" w.c.	250,000	313,000	368,000	447,000	548,000
	7" w.c.	243,000	313,000	360,000	439,000	541,000
	8" w.c.	243,000	306,000	360,000	423,000	525,000
	9" w.c.	227,000	298,000	337,000	407,000	509,000
	10" w.c.	211,000	282,000	321,000	384,000	486,000
	11" w.c.	196,000	266,000	306,000	368,000	470,000
	12" w.c.	196,000	259,000	306,000	360,000	462,000

PRESSURE DROP - 0.64 sp gr gas expressed in CFH (m³/h)

Press. drop	7.0" PSIG= 17 mbar	½ PSIG= 34.5 mbar	¾ PSIG= 52 mbar	1 PSIG= 69 mbar
Flow rate CFH (m3/h)	155 (4.3)	220 (6.1)	280 (7.8)	310 (8.7)

CAPACITIES based on 1" w.c. pressure drop from set point 0.64 sp gr gas expressed in CFH (m³/h)

Model	Outlet Pressure	½ PSIG= 34.5 mbar	¾ PSIG= 52 mbar	1 PSIG= 69 mbar	2 PSIG= 138 mbar	5 PSIG= 345 mbar
90	6" w.c.	160 (4.5)	200 (5.6)	235 (6.6)	285 (8.0)	350 (9.8)
	7" w.c.	155 (4.3)	200 (5.6)	230 (6.4)	280 (7.8)	345 (9.7)
	8" w.c.	155 (4.3)	195 (5.5)	230 (6.4)	270 (7.6)	335 (9.4)
	9" w.c.	145 (4.1)	190 (5.3)	215 (6.0)	260 (7.3)	325 (9.1)
	10" w.c.	135 (3.8)	180 (5.0)	205 (5.7)	245 (6.7)	310 (8.7)
	11" w.c.	125 (3.5)	170 (4.8)	195 (5.5)	235 (6.6)	300 (8.4)
	12" w.c.	125 (3.5)	165 (5.5)	195 (5.5)	230 (6.4)	295 (8.3)