Department of consumer and corporate affairs / Ministère de la consommation et des corporations

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL
AVIS D'APPROBATION

G-109

OTTAWA May 29, 1975

FISHER CONTROLS COMPANY PRESSURE REGULATORS
MODELS 199, 99-2, 99-43, S201D

Apparatus

Model Designation	199	99-2 and 99-43	S201D
Max. inlet pressure, psig	60	125	125
Outlet pressure range, psig	2-50	Up to 20	2 to 10
Max. flow, 0.6 sp. gr. gas, SCFH*	10,000	10,000	10,000
Main orifice diameter, ins.	½	7/8	¼, ½, 3/4, 1 3/16
Regulator connections, ins.			
(a) threaded NPT	3/4, 1, 1¼	2	1½, 2
(b) flanged, ANSI 250		2	2

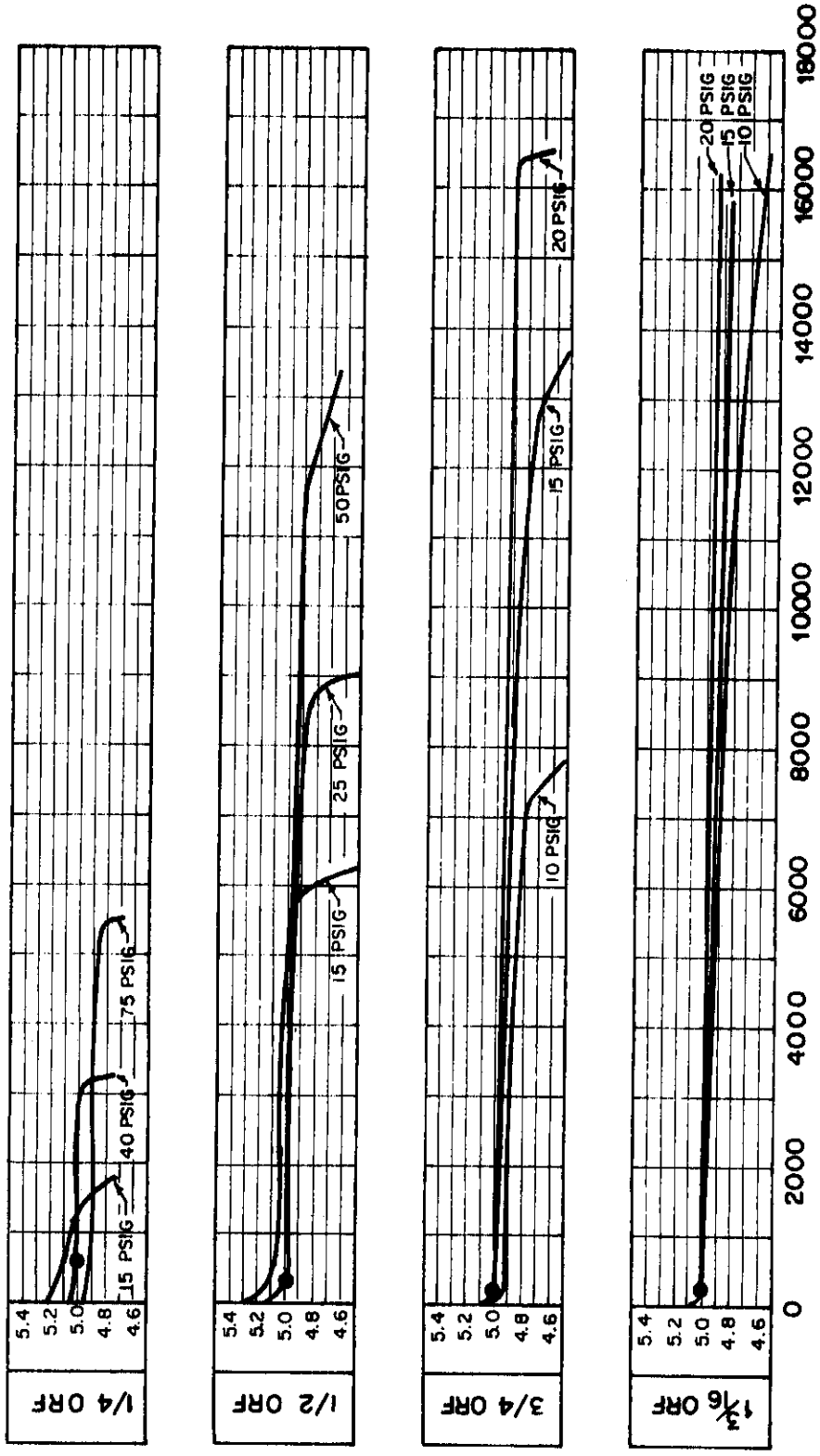
* For some operating conditions the flow is less (ref. to manufacturer's bulletin).

Approval is hereby granted for the use of the above-named apparatus in Pressure Factor Measurement Installations.

This Approval is conditional upon the installation conforming strictly to "Rules for Pressure Factor Measurement Installations" which may be issued by the Branch.

Theory of operation, setting instructions, sizing and connection details, flow limitations, etc., may be obtained from the appropriate manufacturer's bulletin. In cases where the information in these bulletins differs from that entered here, or is not available, the data entered in this circular shall govern.

TYPE S201 D PERFORMANCE CURVES – REGULATOR SIZE 1 1/2" AND 2".



0.6 Specific Gravity Gas Flow Rate – Cubic Feet per Hour – 14.7 psi abs. at 60° F
Inlet Pressures Denoted on each Curve
● Initial Setting Point

FIG. 1

Description

Model 199

This is a pilot operated regulator, normally set at the following conditions:

(1) the average inlet service pressure expected
(11) the contracted outlet pressure
(111) a flow rate of 250 SCFH

The two pilot springs approved for use are:

(1) No. 1B7883 (cadmium) for outlet pressures from 2 to 25 psig
(11) No. 1B7884 (blue) for outlet pressures from 20 to 50 psig

For further information refer to the manufacturer's bulletin No. 71.2:199, dated February 1971.

Models 99-2 and 99-43

These are pilot loaded regulators, normally set at the following conditions:

(1) the maximum inlet service pressure expected
(11) the contracted outlet pressure
(111) a flow rate of 250 SCFH

For further data refer to the manufacturer's bulletin No. 71.2:99, dated March 1973.

Model S201D

This pilot loaded regulator incorporates as a loading pilot the Fisher Type 67 regulator. The regulator is normally set at the following conditions:

(1) the average inlet service pressure
(11) the contracted outlet pressure
(111) a flow rate of 600 SCFH for regulators with ¼" size main orifice
(1V) a flow rate of 200 SCFH for regulators with ½", 3/4" or 1 3/16" main orifice.

In all cases the orifice size is selected to meet the accuracy requirements at maximum flow and minimum inlet pressure.

Typical performance curves for this regulator with outlet pressures of 2.0 and 10.0 psig are included in manufacturer's bulletin No. 71.1:S200, dated April 1973. Fig. 1 in this circular shows similar performance curves for outlet pressure of 5.0 psig.

For field testing procedure refer to Technical Gas Circular G-75-3.

Approval granted to:

Fisher Controls Company
of Canada Ltd.,
Woodstock, Ontario.

for J.L. Armstrong,
Chief, Standards Laboratory,

(for) D.L. Smith,
Chief, Electricity & Gas Division,
Metrology and Laboratory Services.

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