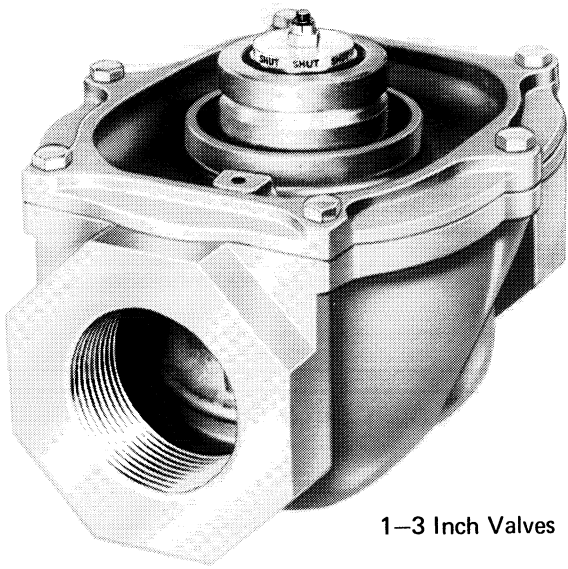
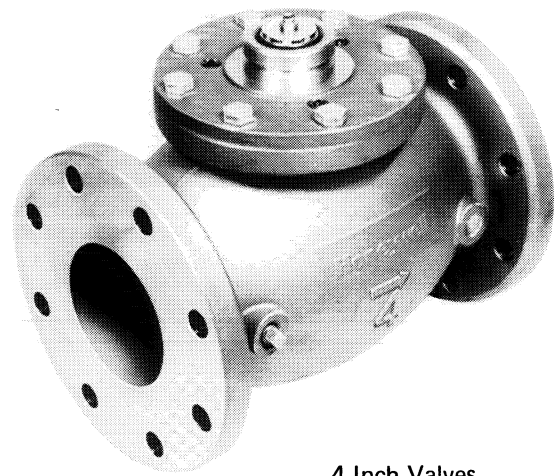


**Honeywell**

**V5055  
Industrial  
Gas  
Valves**



1-3 Inch Valves



4 Inch Valves

**Gas Flow  
vs.  
Valve  
Opening**



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# Introduction

The following curves relate gas flow through the V5055 Industrial Gas Valve to stem travel. These curves show valve performance under American Gas Association standard conditions:

Specific gravity of gas	0.64
Temperature (Fahrenheit)	60.00 [16 C]
Inlet pressure (inches water)	2.00 [0.5 kPa]
Pressure drop across valve (inches water)	1.00 [0.25 kPa]

The flow is given in both cubic feet per hour (left side of graphs) [cubic metres per hour] and percent of rated flow (right side of graphs). Maximum stem travel is 1.05 inches [26.6 mm].

The V5055A Gas Valve is designed for ON-OFF service.

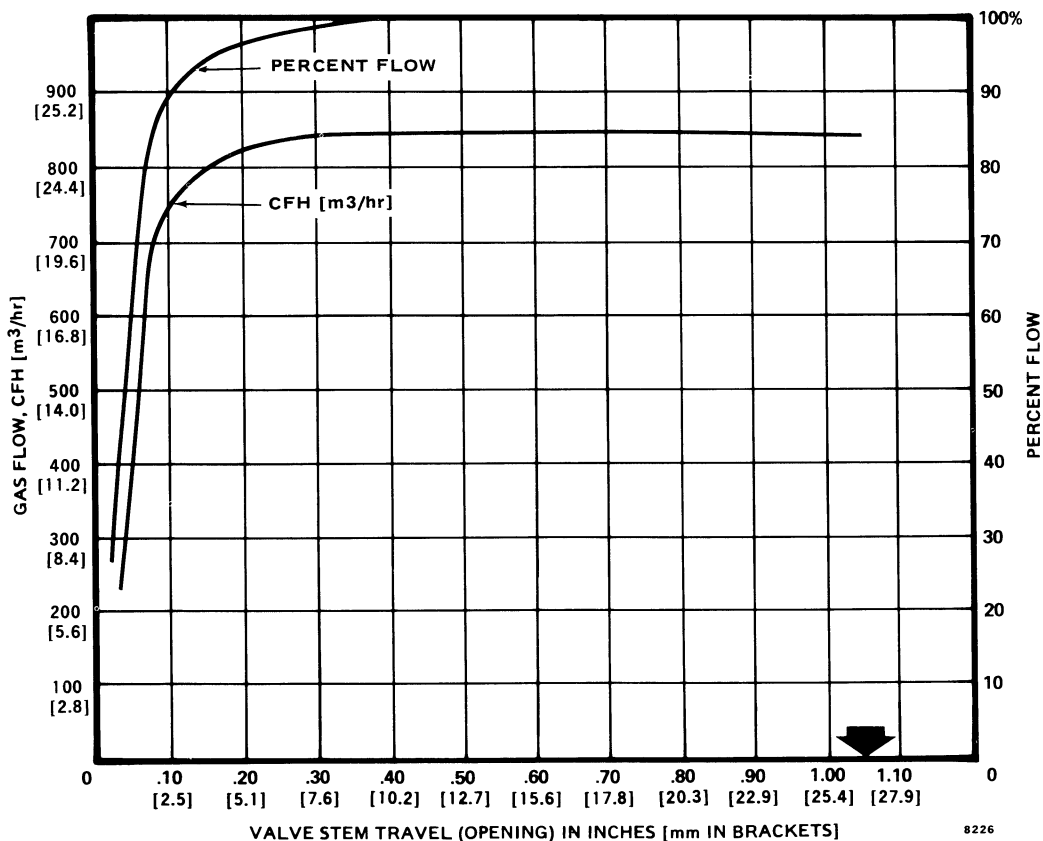
The V5055B Gas Valve has a characterized guide for use with LOW-HIGH or MODULATING actuators, or with ON-OFF actuators to aid in smooth light off.

The V5055C Gas Valve is designed for ON-OFF service. When used with the proper actuator, it meets Factory Mutual requirements for valve closed indication and Underwriters Laboratories Inc. requirements for valve seal overtravel interlock.

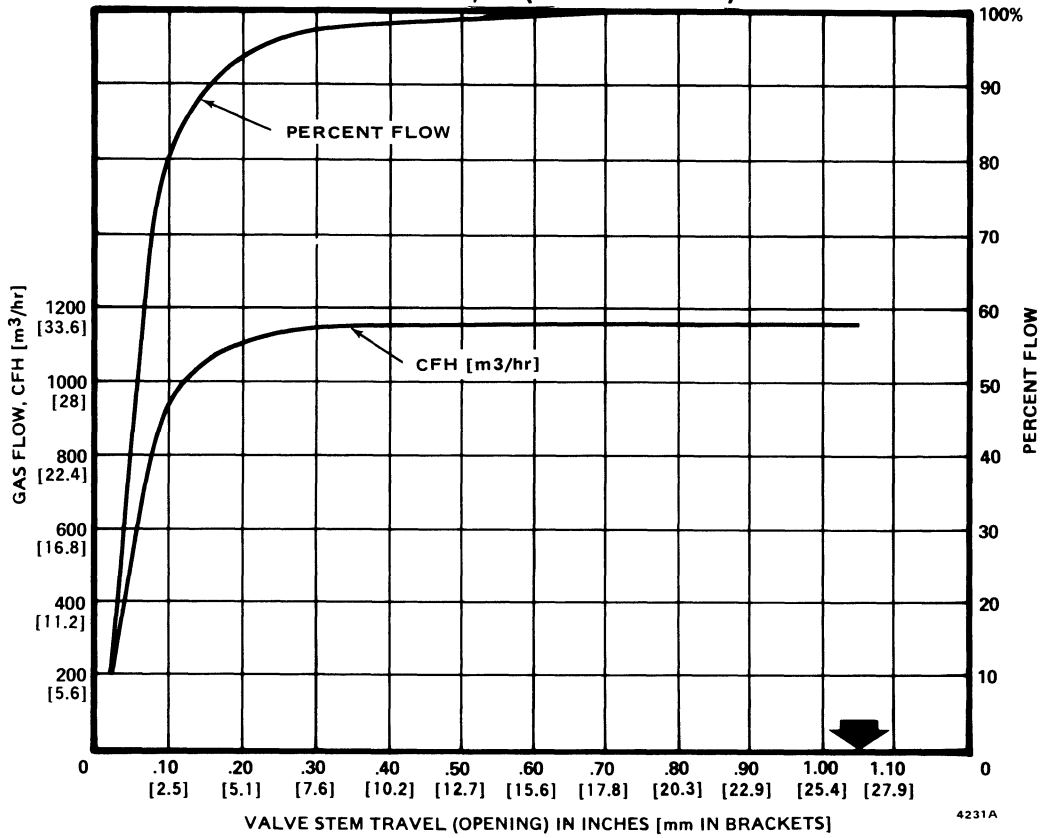
The V5055D Gas Valve is designed for ON-OFF service in high pressure applications.

The V5055E Gas Valve is designed for ON-OFF service in high pressure applications. When used with the proper actuator, it meets Factory Mutual requirements for valve closed indication and Underwriters Laboratories Inc. requirements for valve seal overtravel interlock.

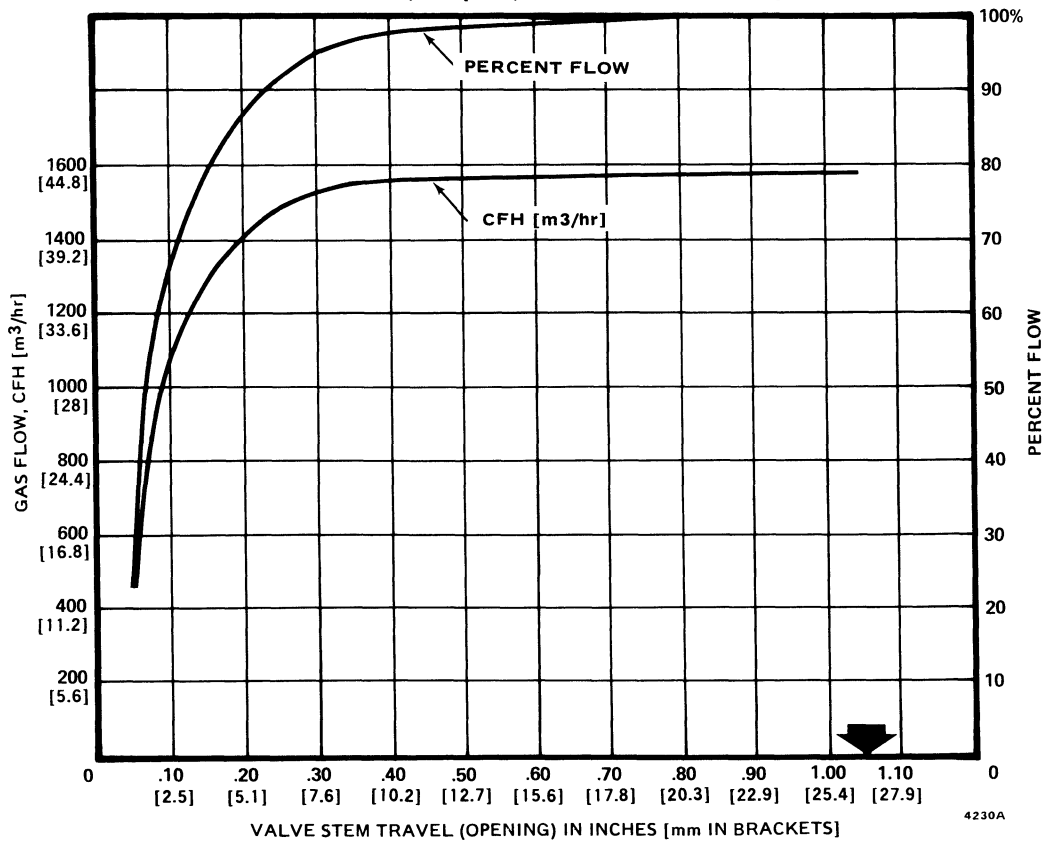
## V5055A,D (3/4 INCH NPT)



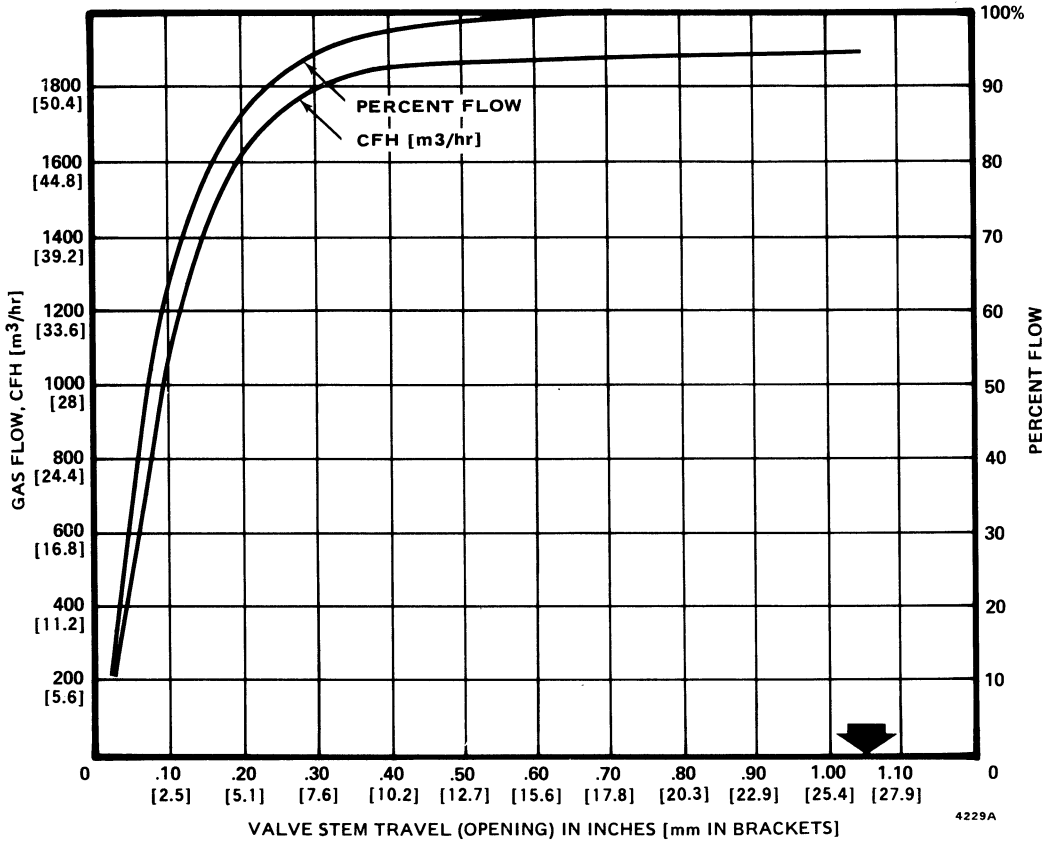
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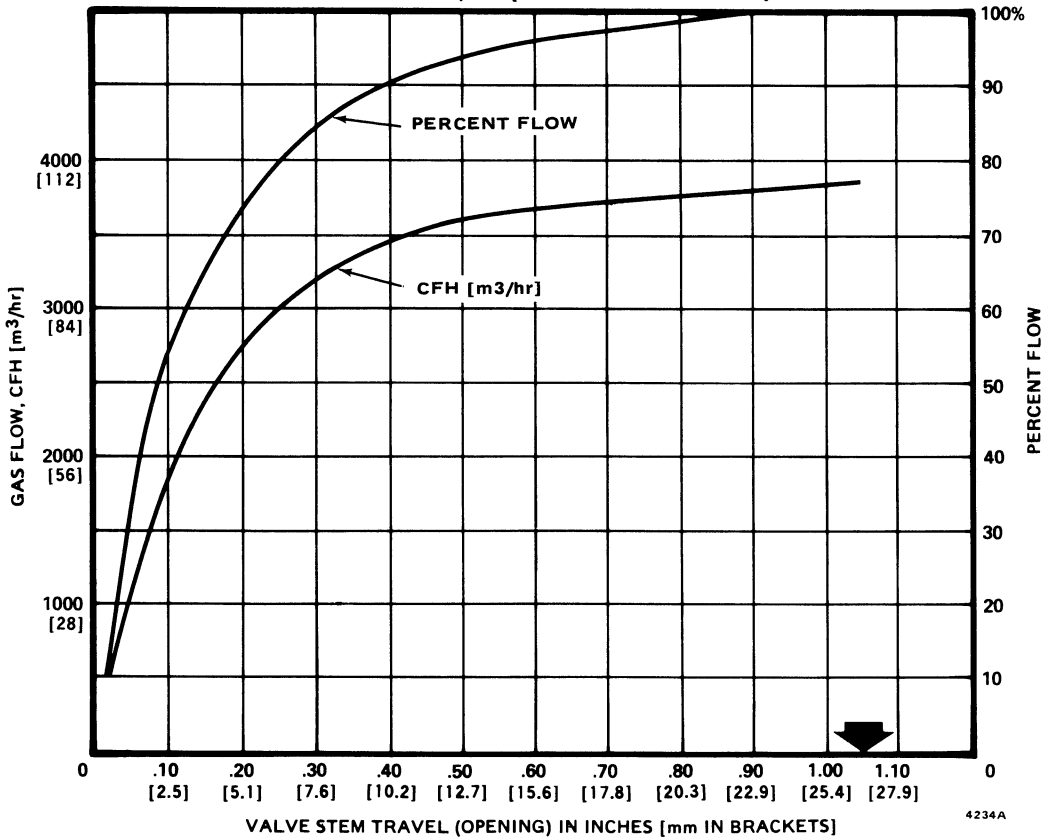
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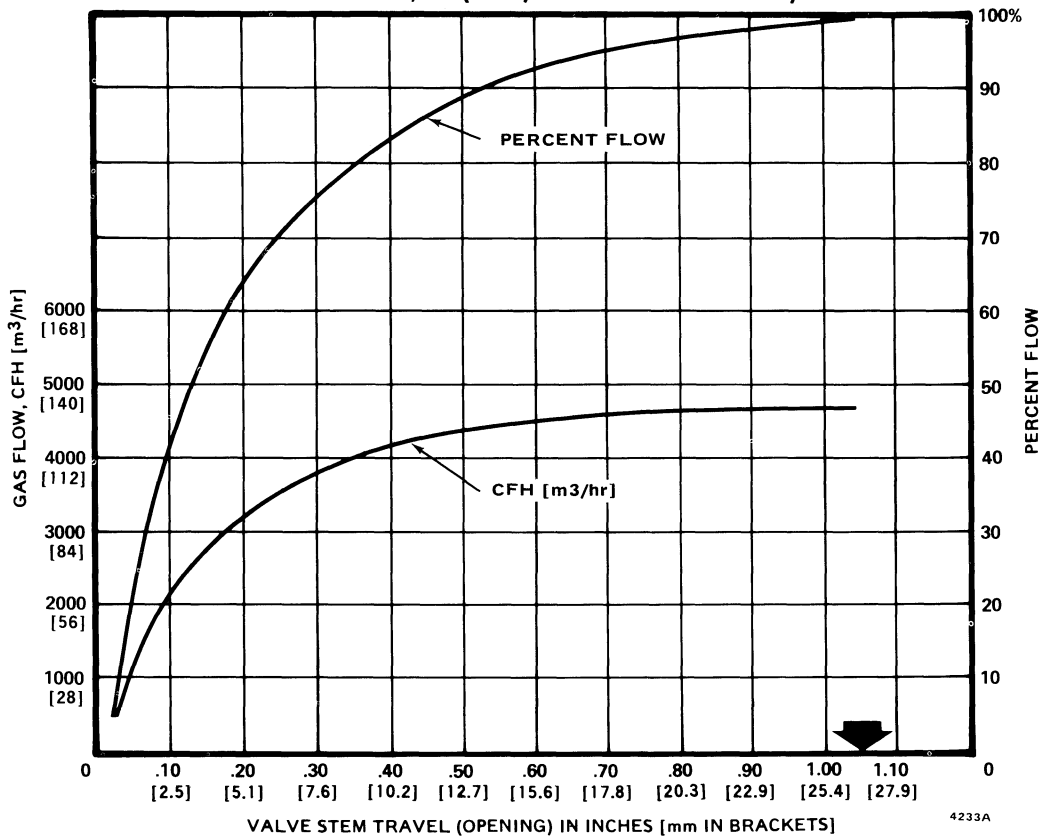
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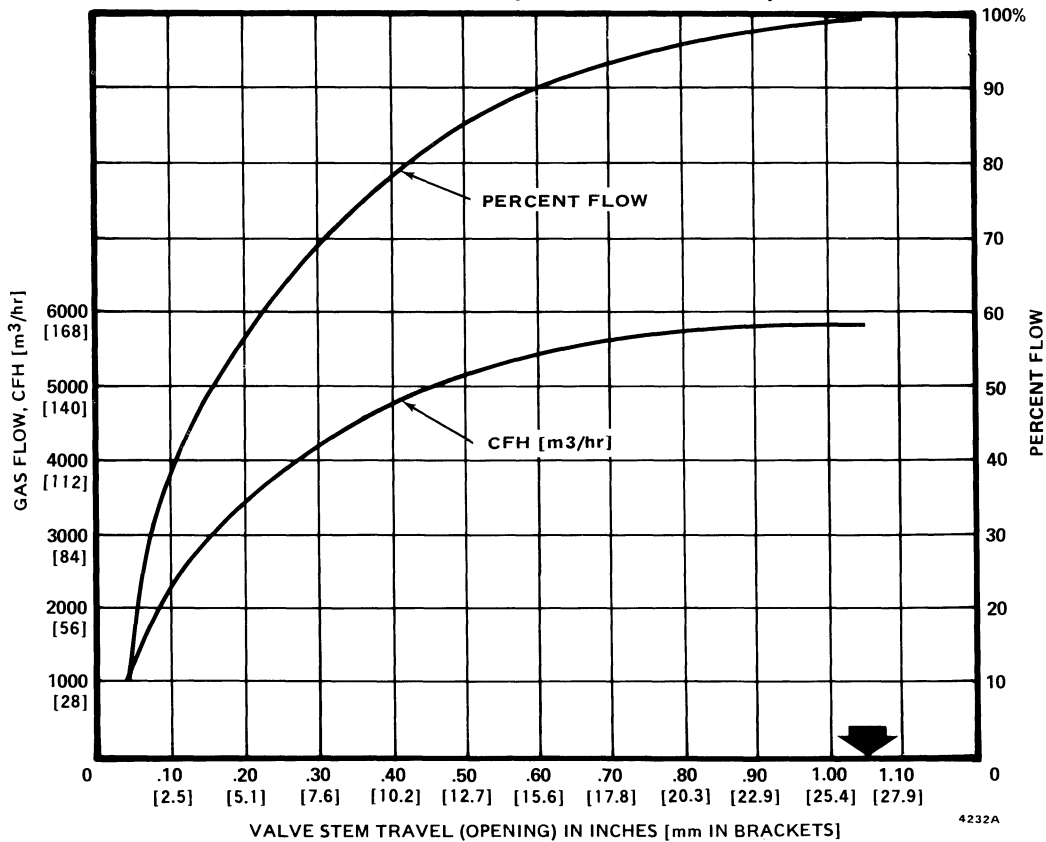
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### V5055A,D (2-1/2 INCHES NPT)

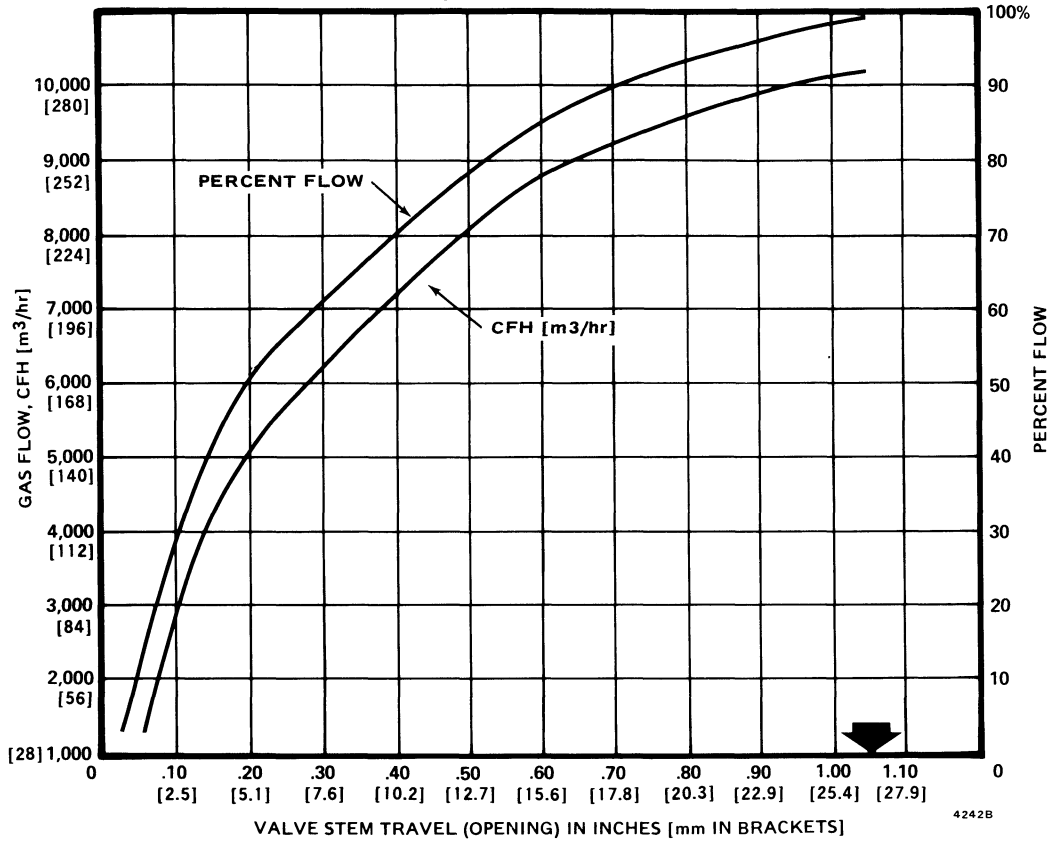


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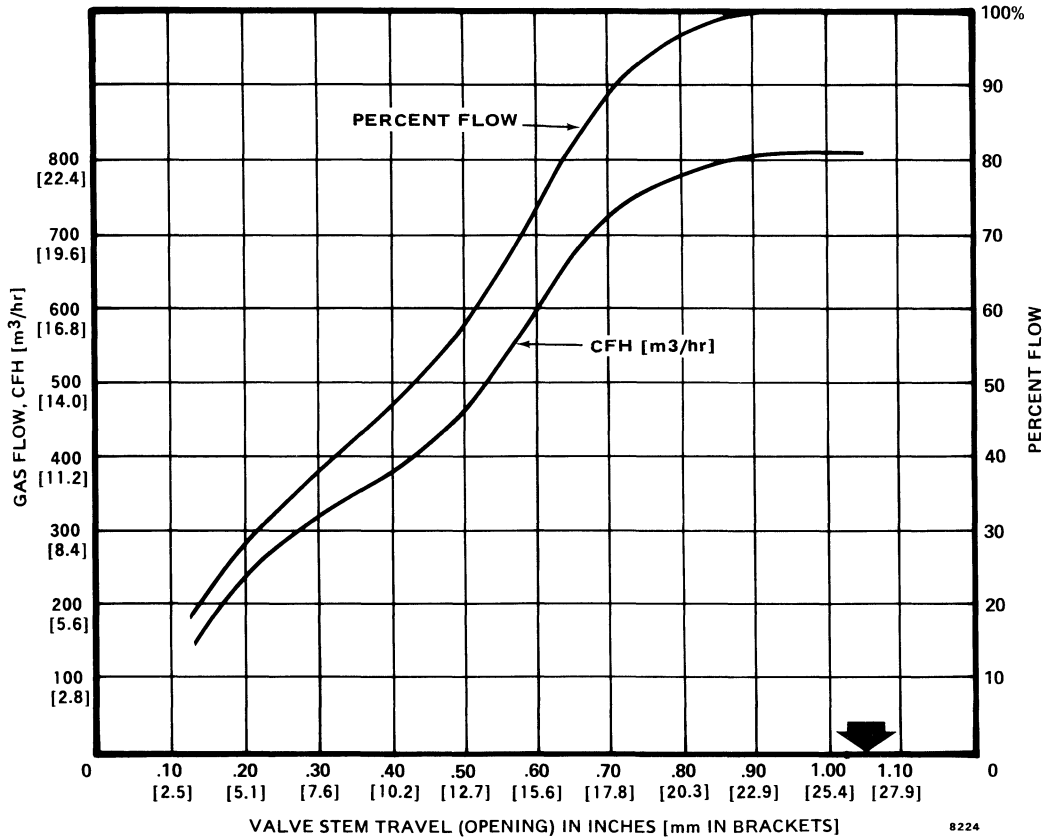




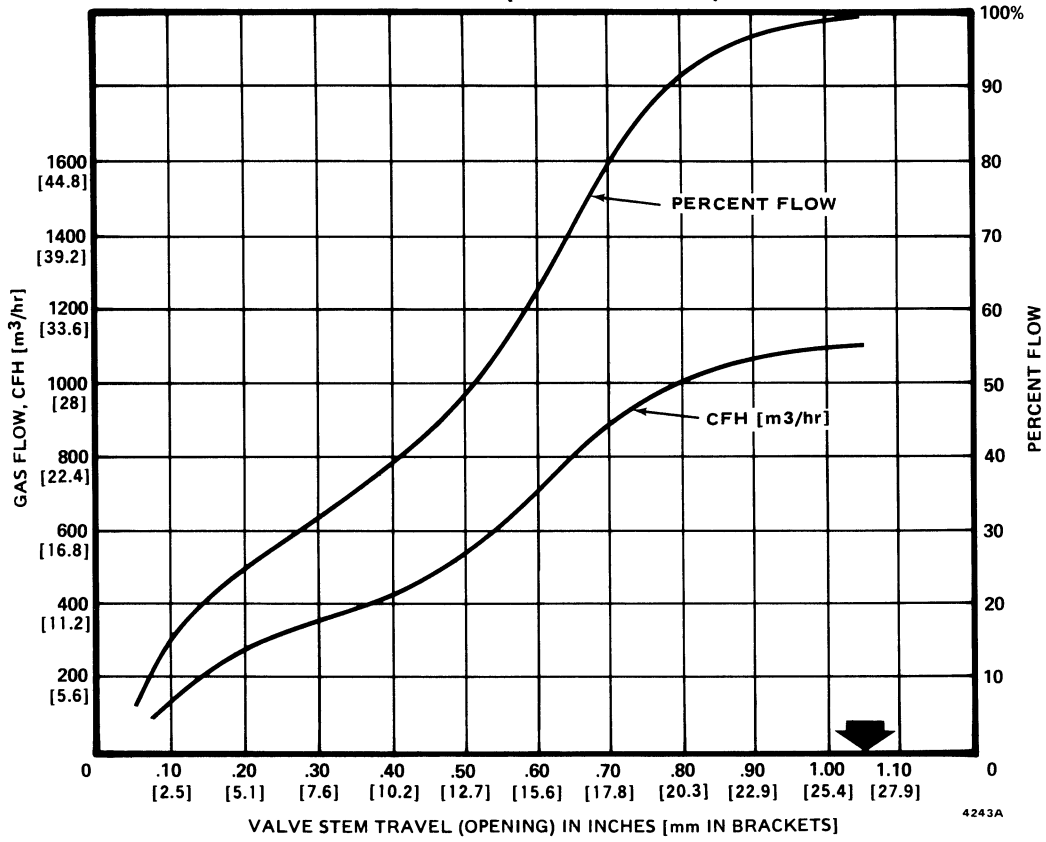
### V5055A (4 INCHES FLANGED)



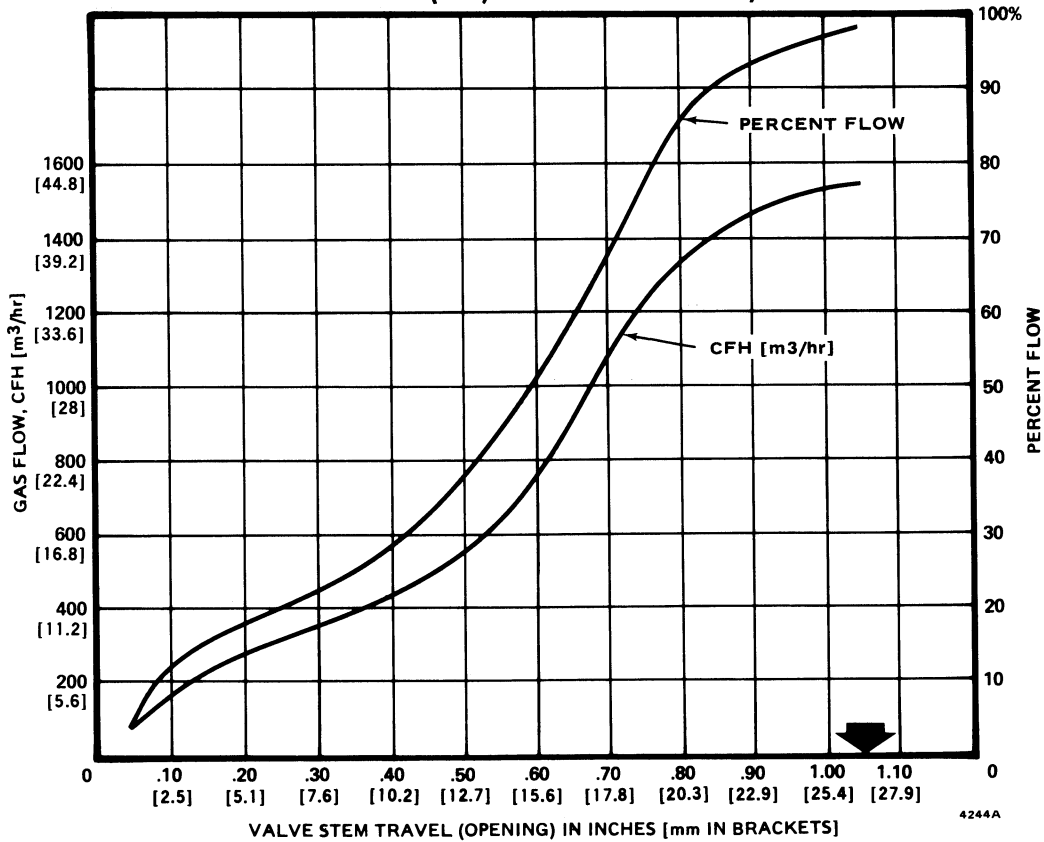
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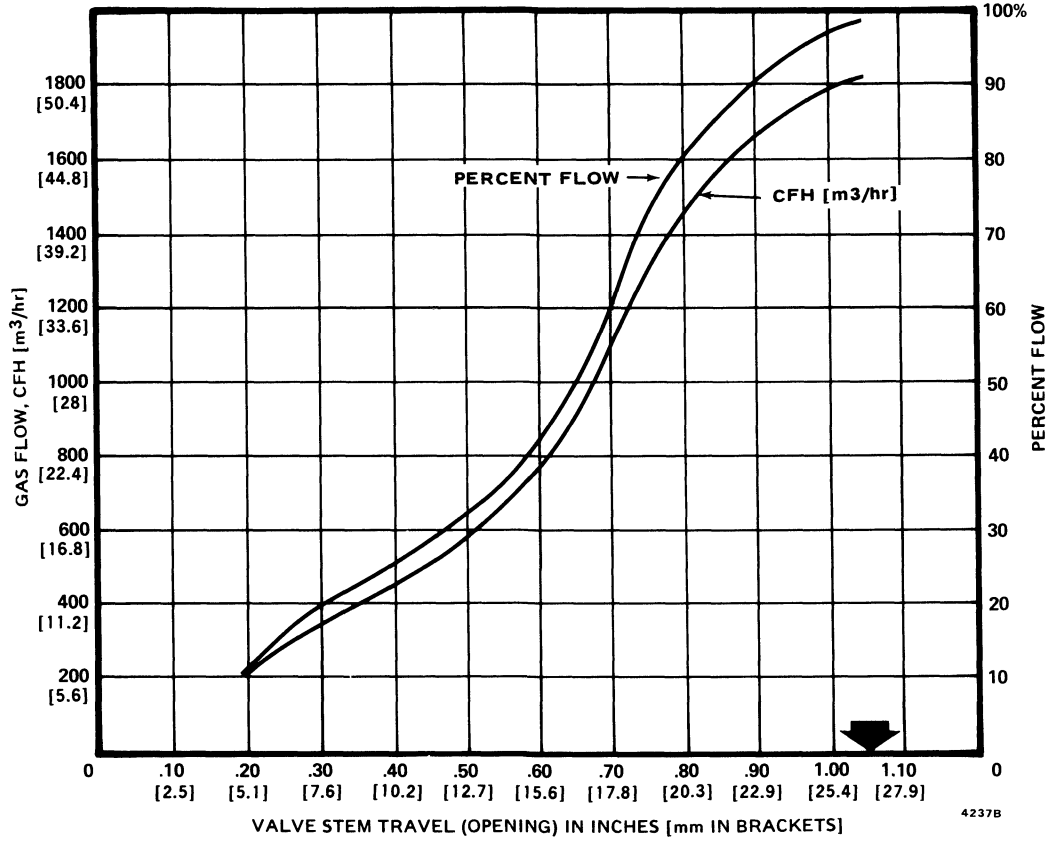
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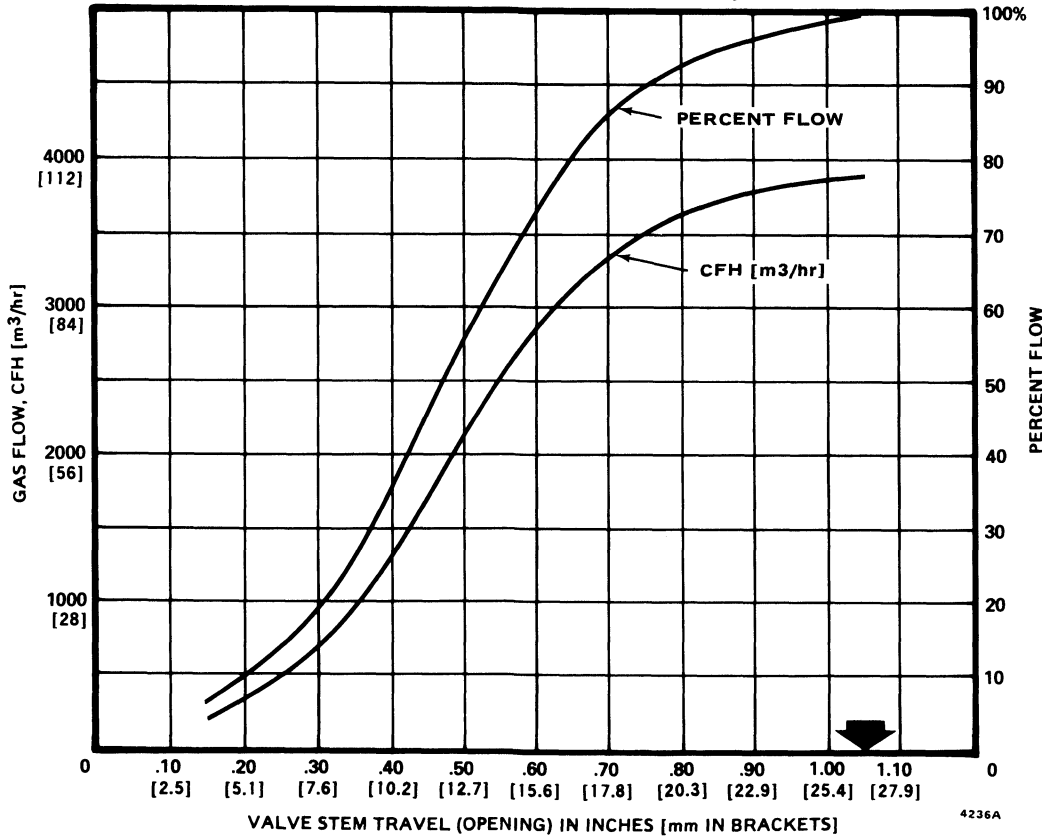
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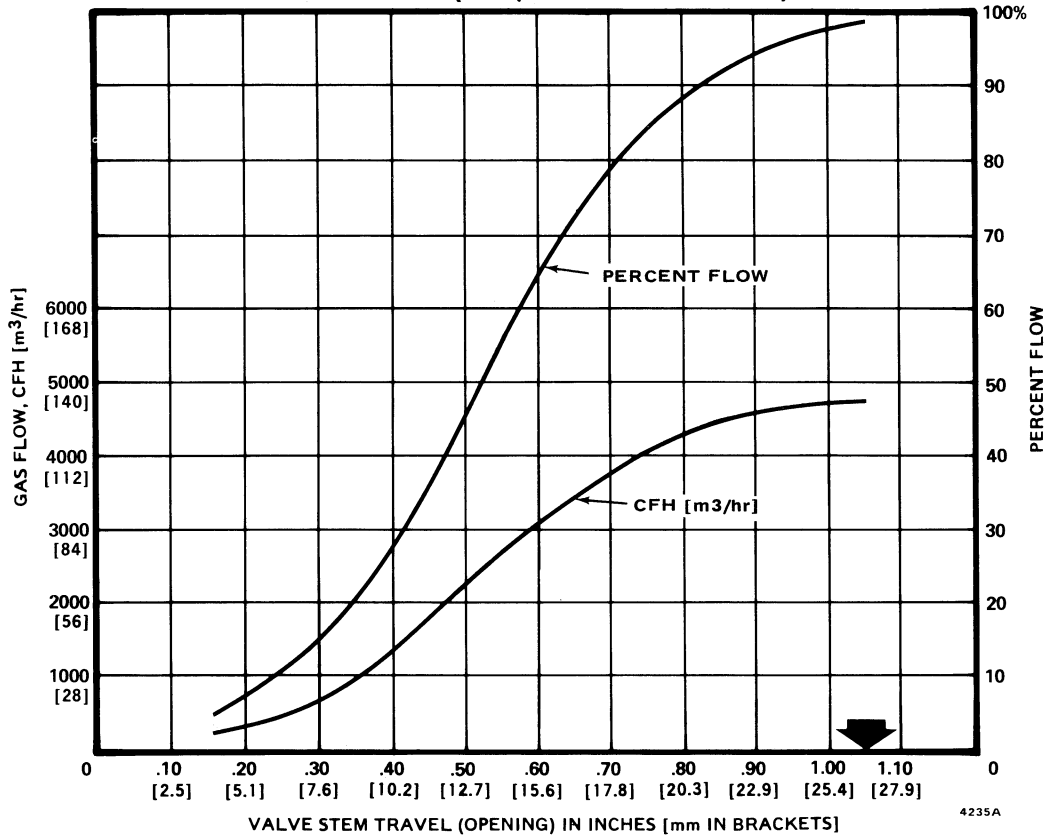
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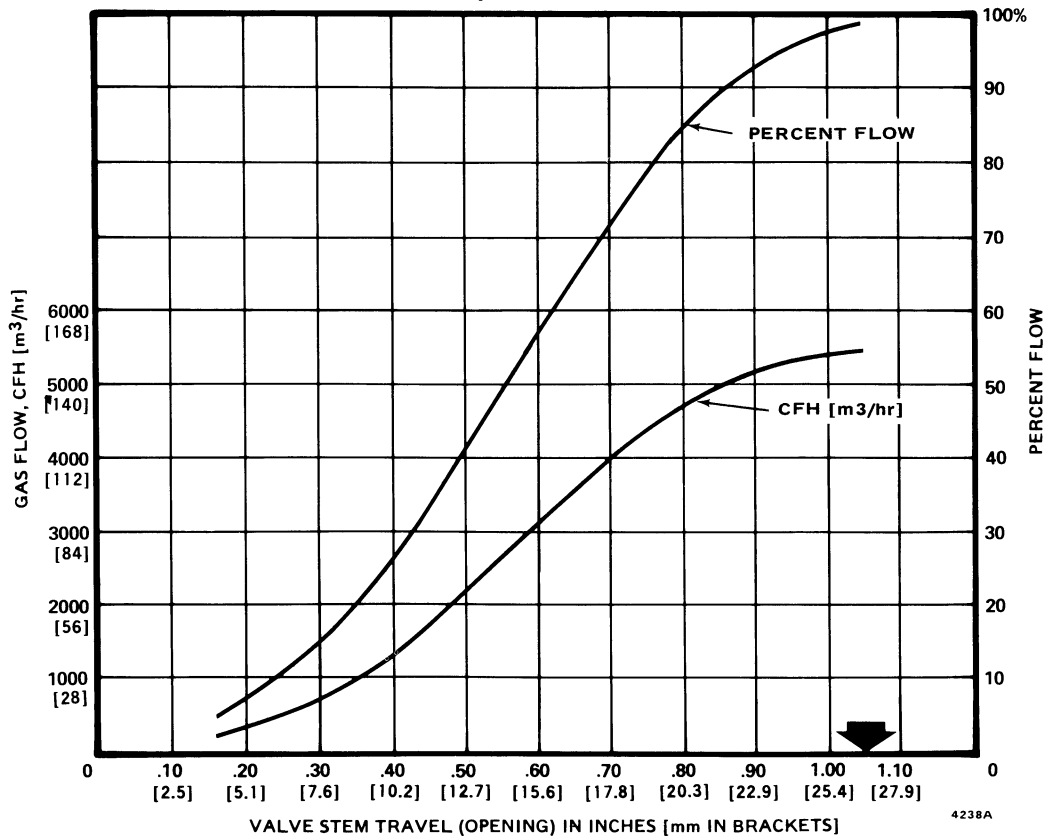
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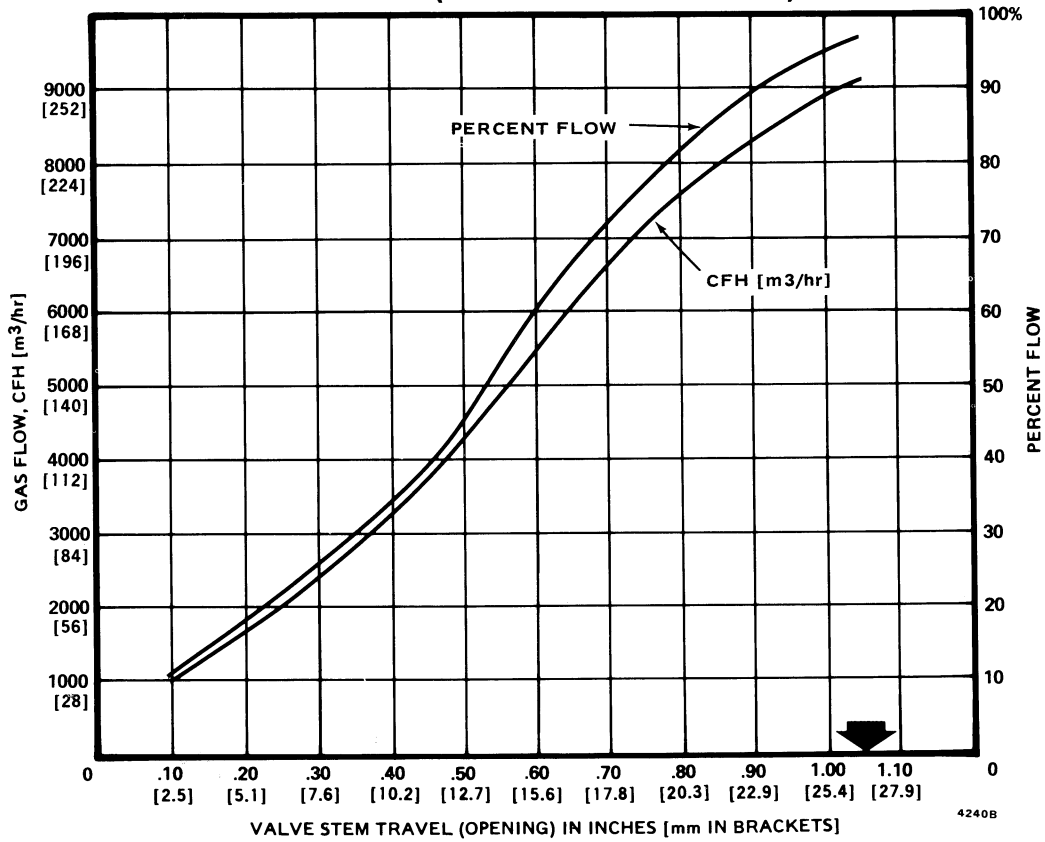
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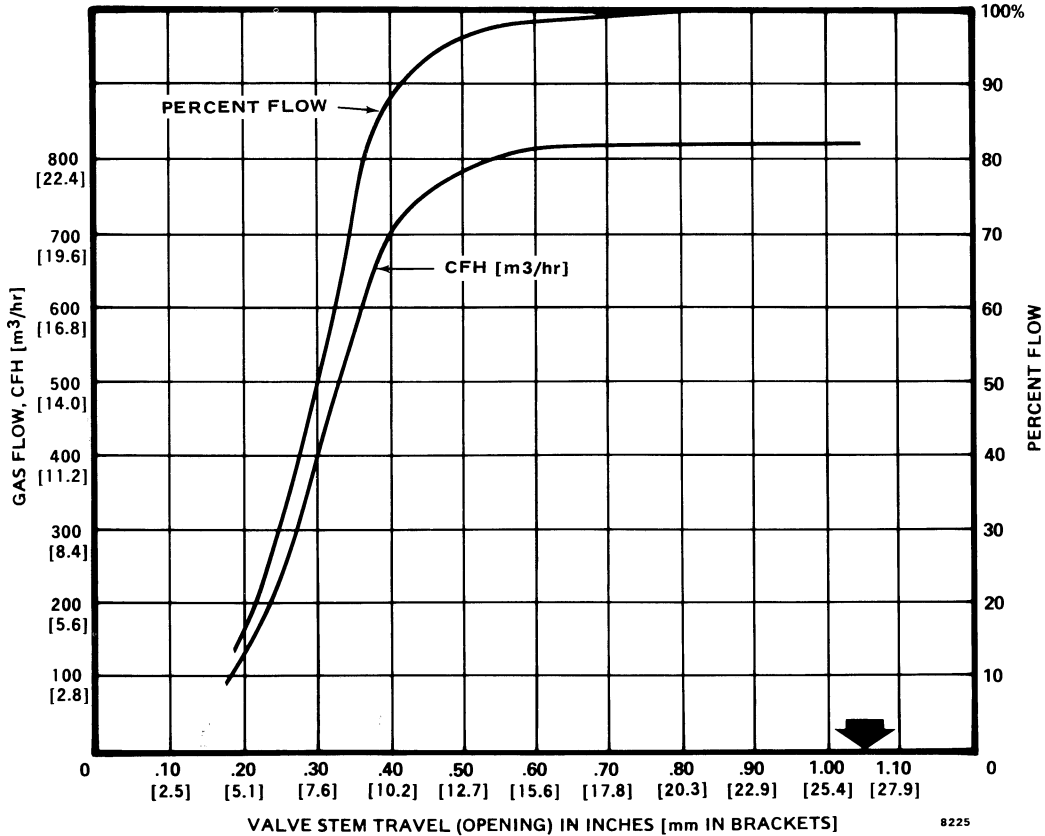
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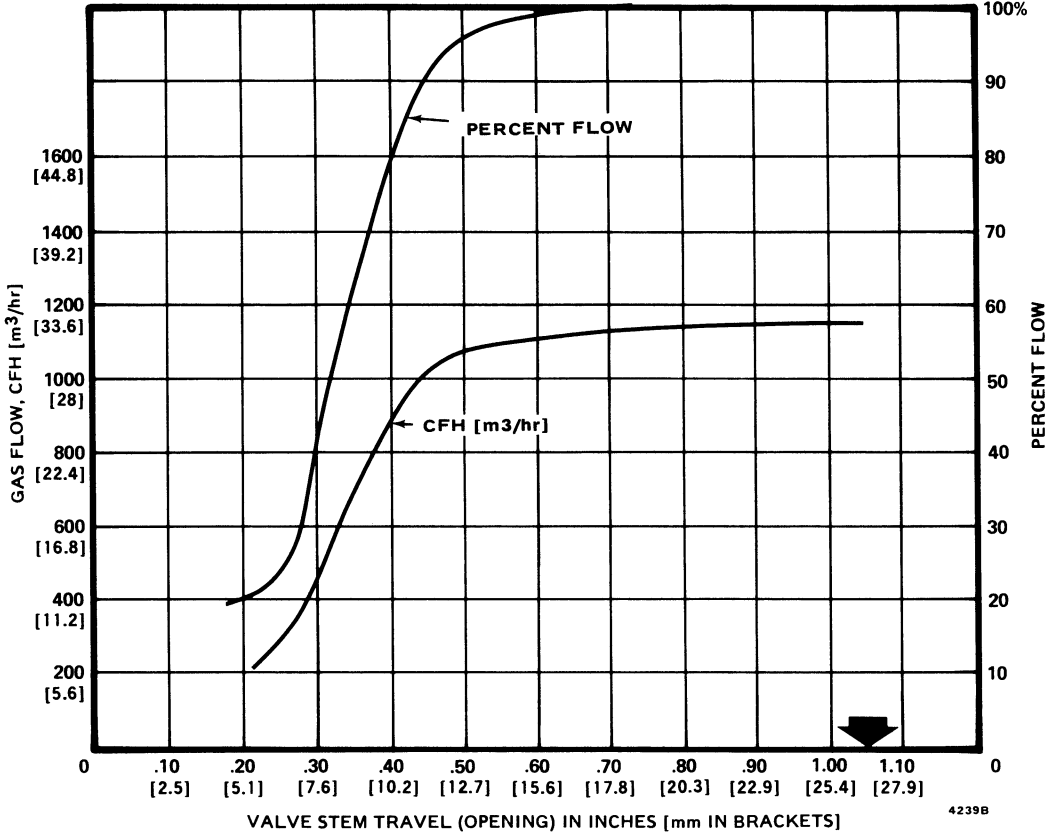
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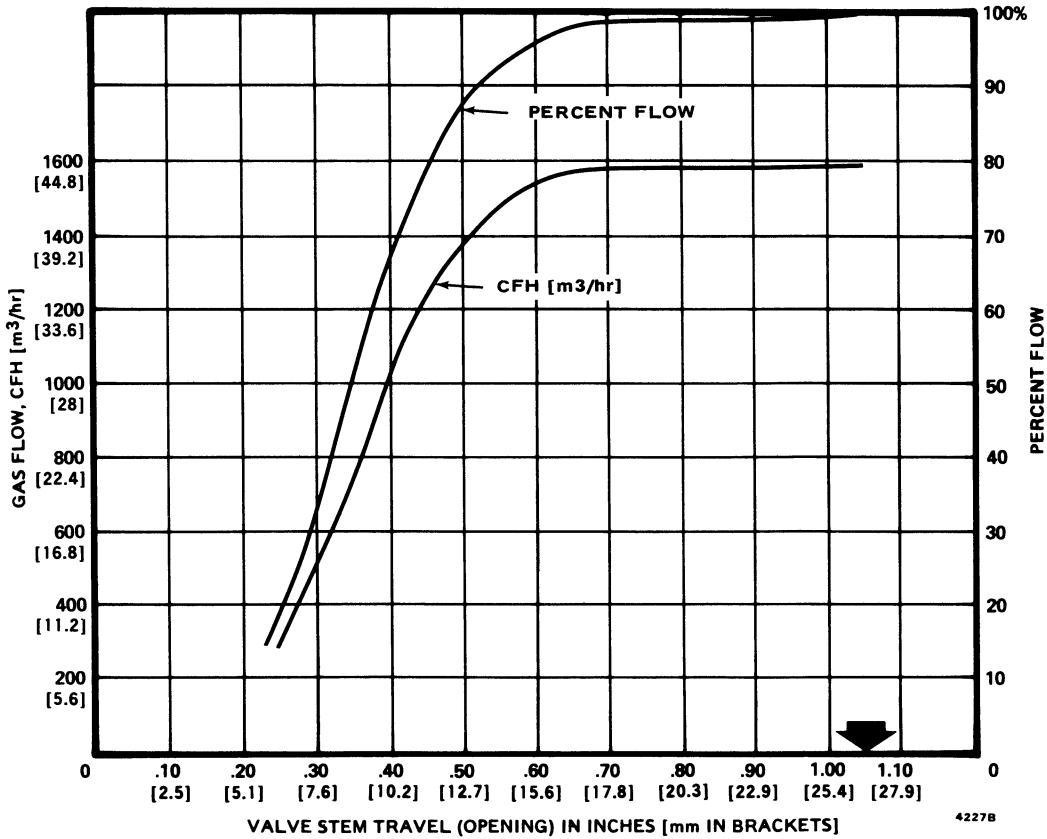
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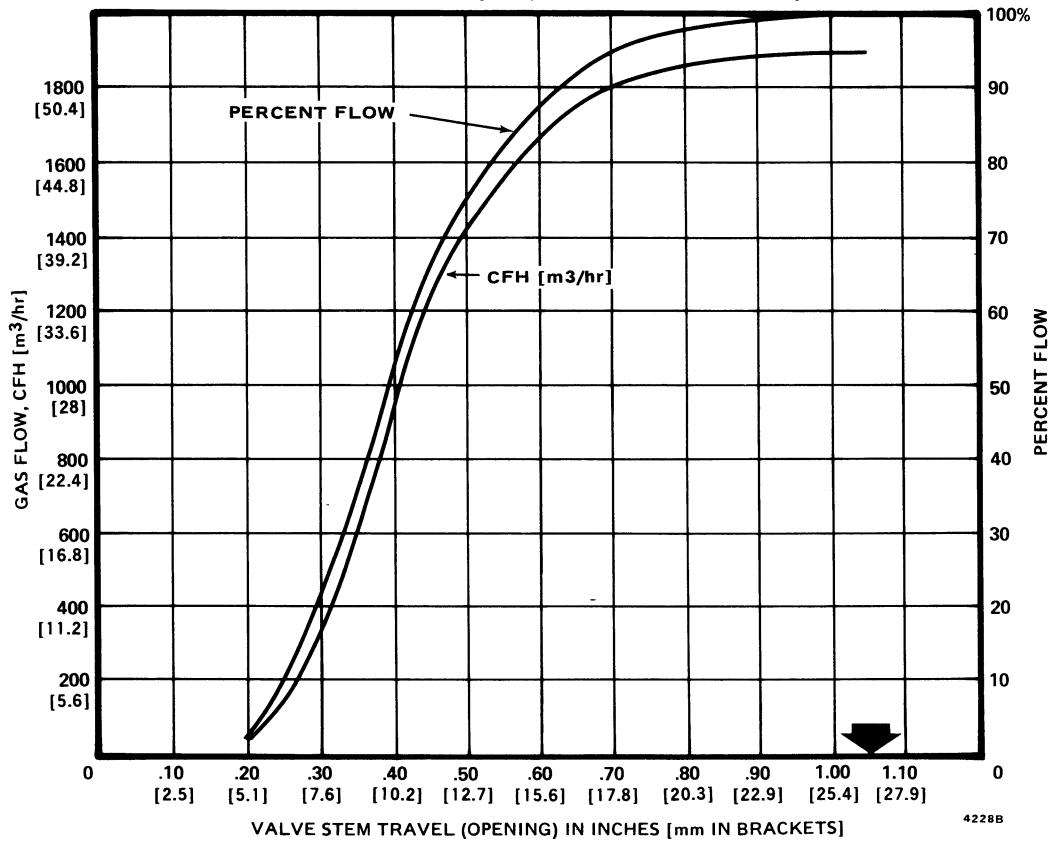
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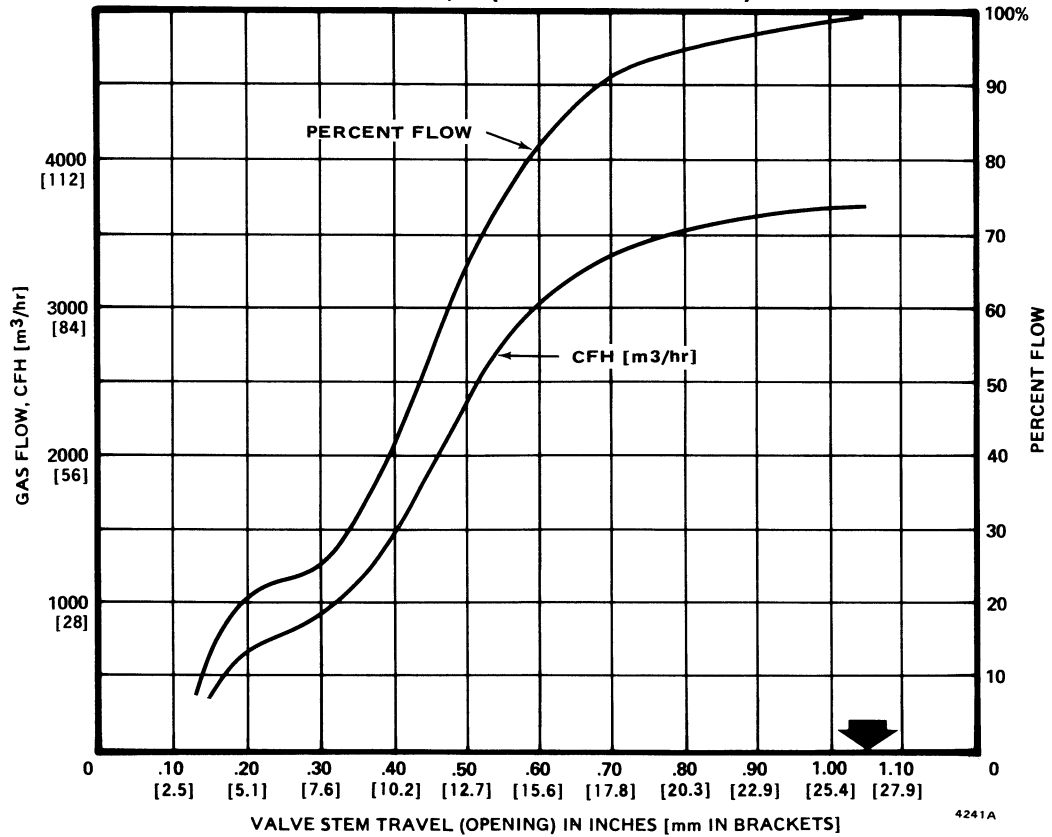
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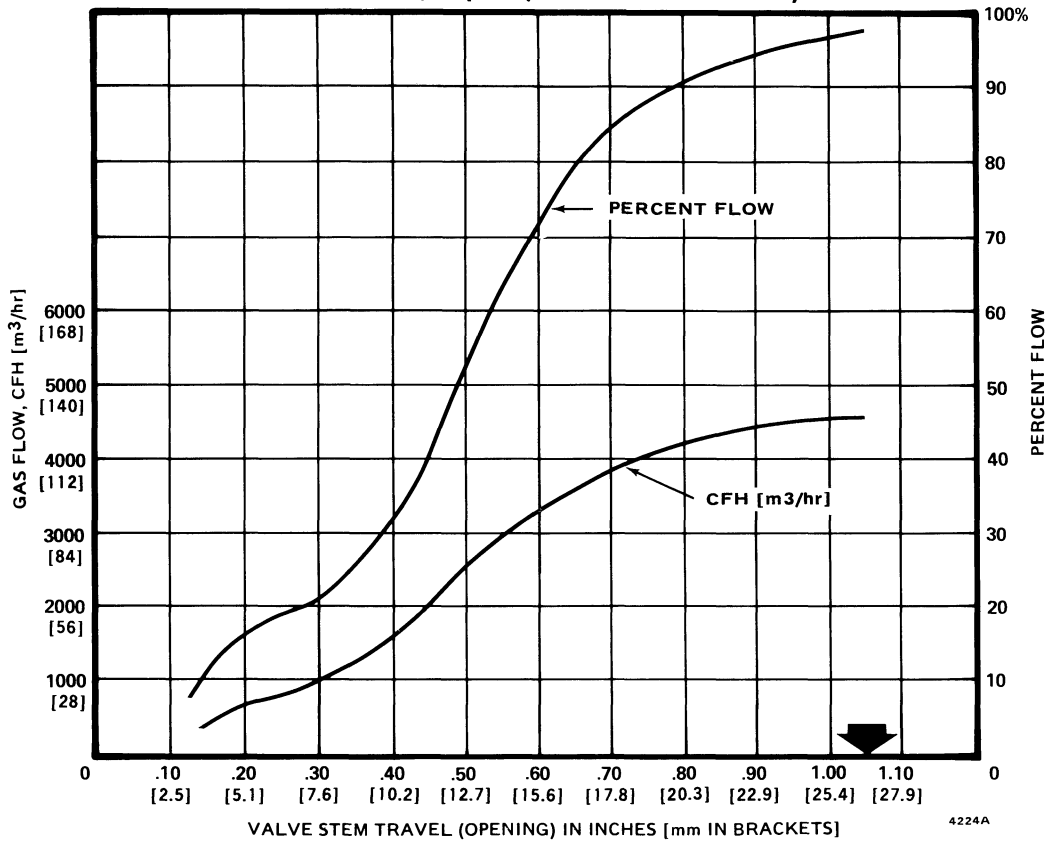
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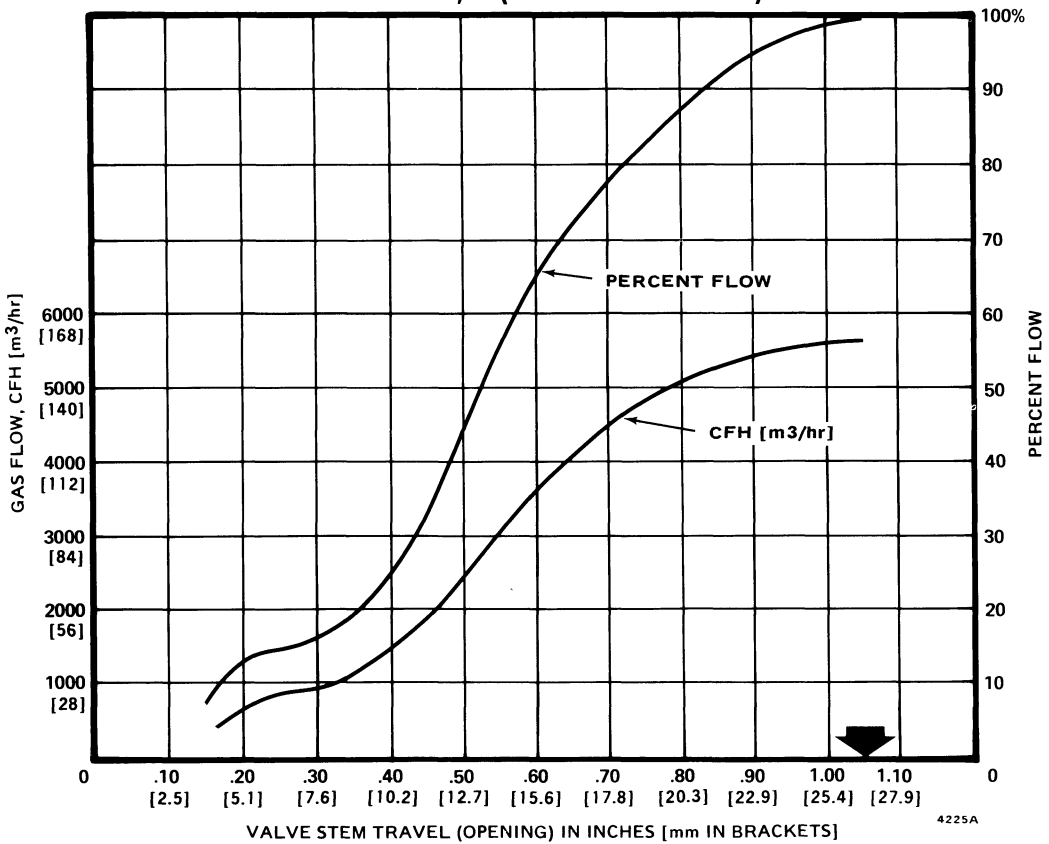
### V5055C,E (2 INCHES NPT)



### V5055C,E (2-1/2 INCHES NPT)

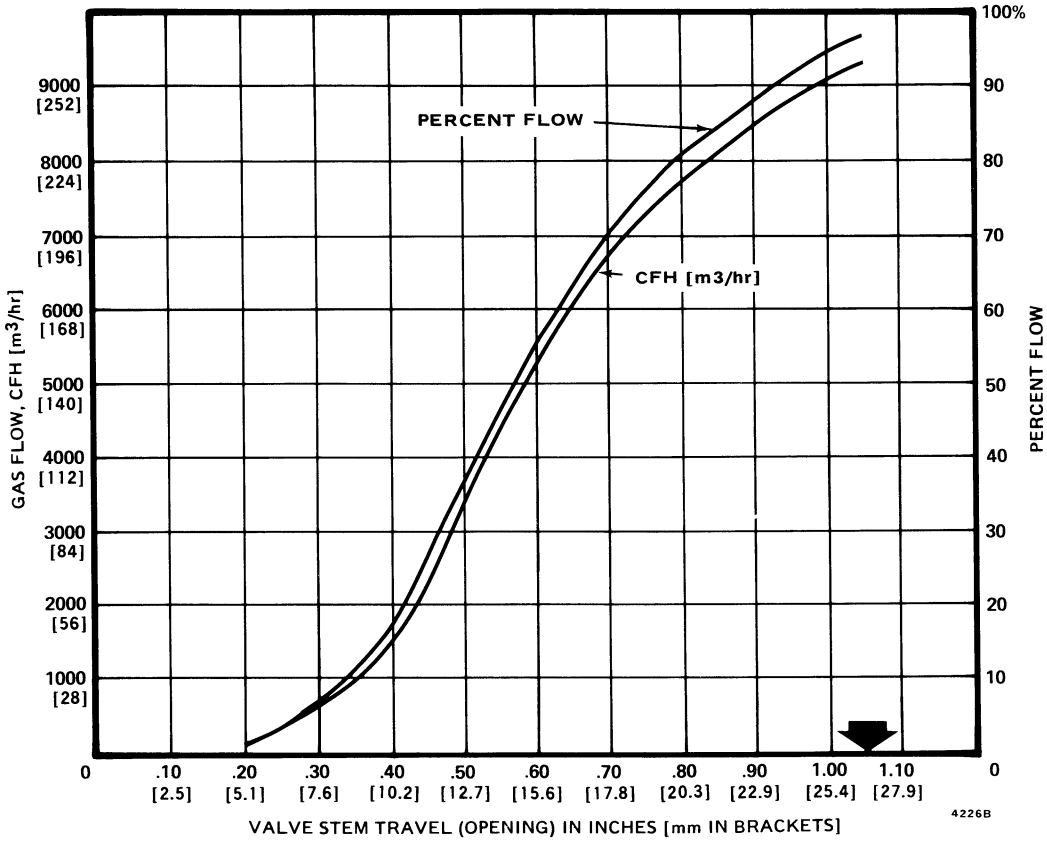


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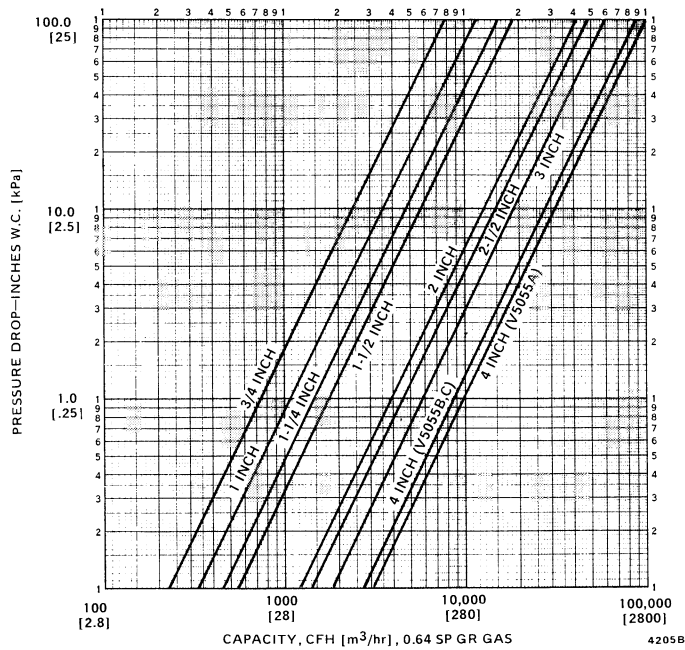




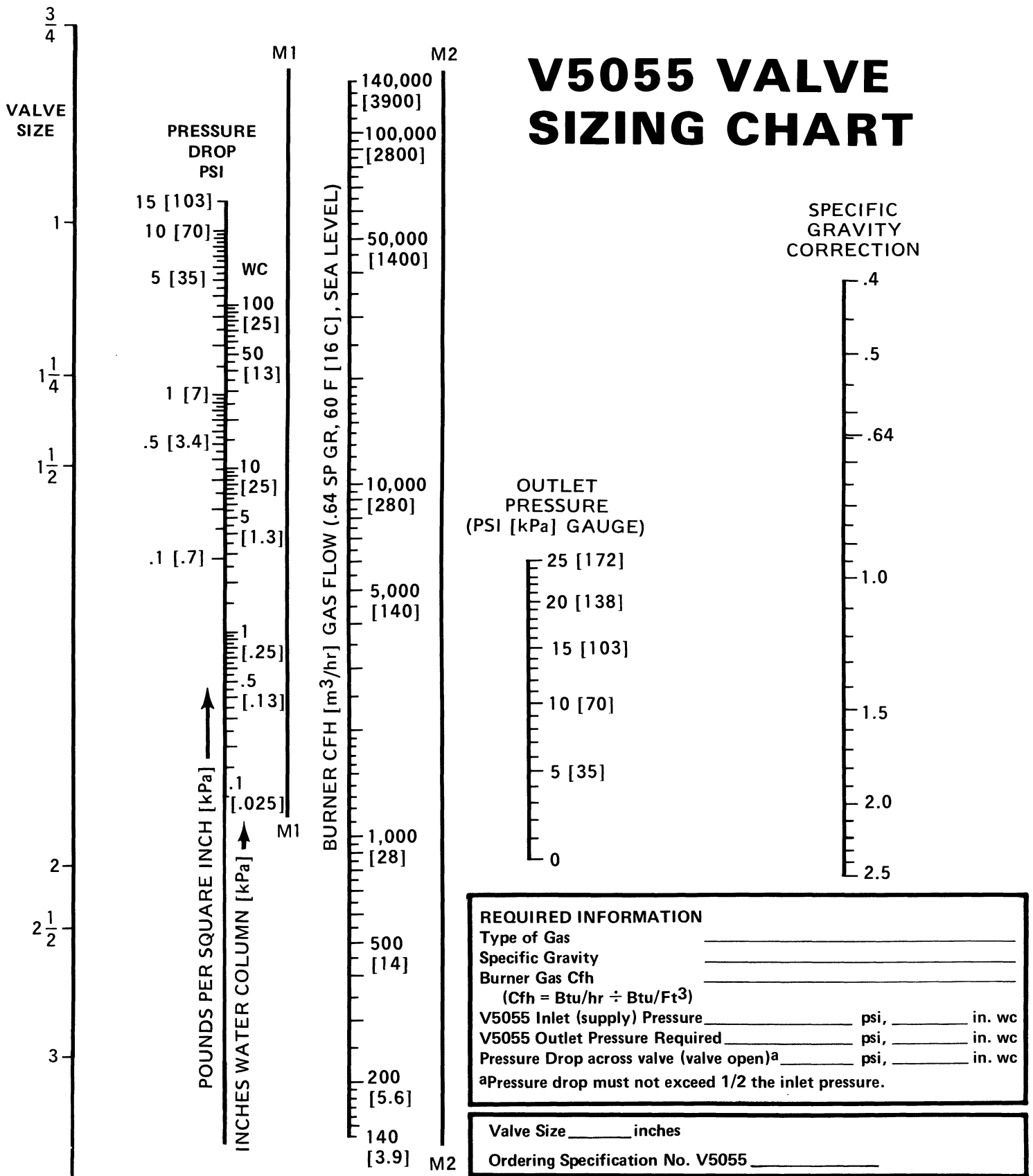
## V5055C (4 INCHES FLANGED)



## Capacity Vs. Pressure Drop (for all V5055 Valves)



# V5055 VALVE SIZING CHART



**REQUIRED INFORMATION**

Type of Gas \_\_\_\_\_

Specific Gravity \_\_\_\_\_

Burner Gas Cfh \_\_\_\_\_  
(Cfh = Btu/hr ÷ Btu/Ft<sup>3</sup>)

V5055 Inlet (supply) Pressure \_\_\_\_\_ psi, \_\_\_\_\_ in. wc

V5055 Outlet Pressure Required \_\_\_\_\_ psi, \_\_\_\_\_ in. wc

Pressure Drop across valve (valve open)<sup>a</sup> \_\_\_\_\_ psi, \_\_\_\_\_ in. wc

<sup>a</sup>Pressure drop must not exceed 1/2 the inlet pressure.

Valve Size \_\_\_\_\_ inches

Ordering Specification No. V5055 \_\_\_\_\_

**INSTRUCTIONS**

NOTE: If natural gas (specific gravity 0.64) is used, skip steps one and two, and start with step three.

1. Draw line ① from 0.64 on "Specific Gravity Correction" to required "Cfh Gas Flow."
2. Draw line ② from "Specific Gravity" of gas used through intersection of line ① and M<sub>2</sub> to get "Burner Cfh."
3. Draw line ③ from "Outlet Pressure" to "Pressure Drop." Convert pressure from inch wc to psi, if necessary.
4. Draw line ④ from "Burner Cfh," through intersection of M<sub>1</sub> and line ③, to "Valve Size." When point falls between two valve sizes, select the larger one.



# Honeywell

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