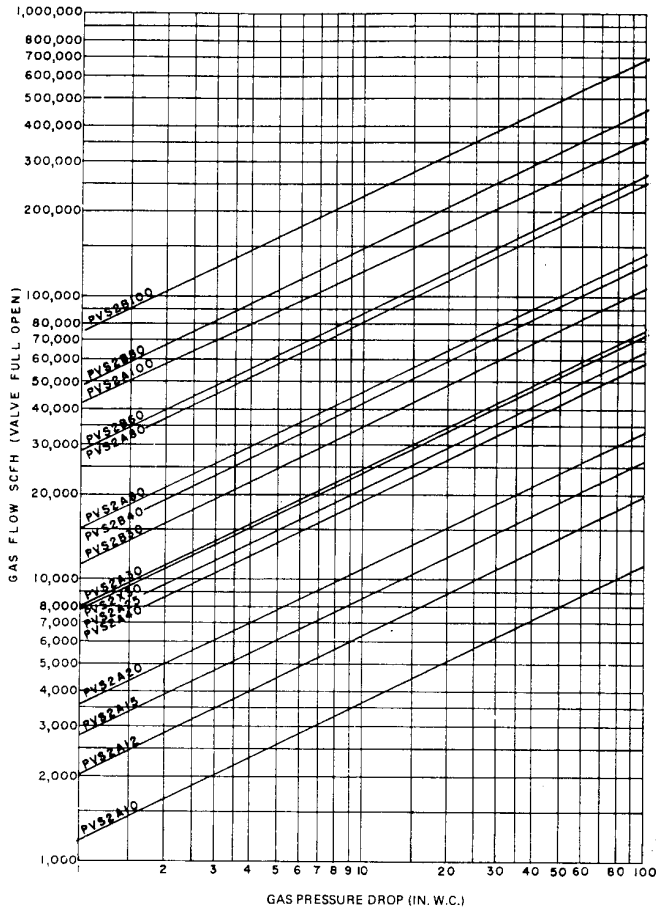




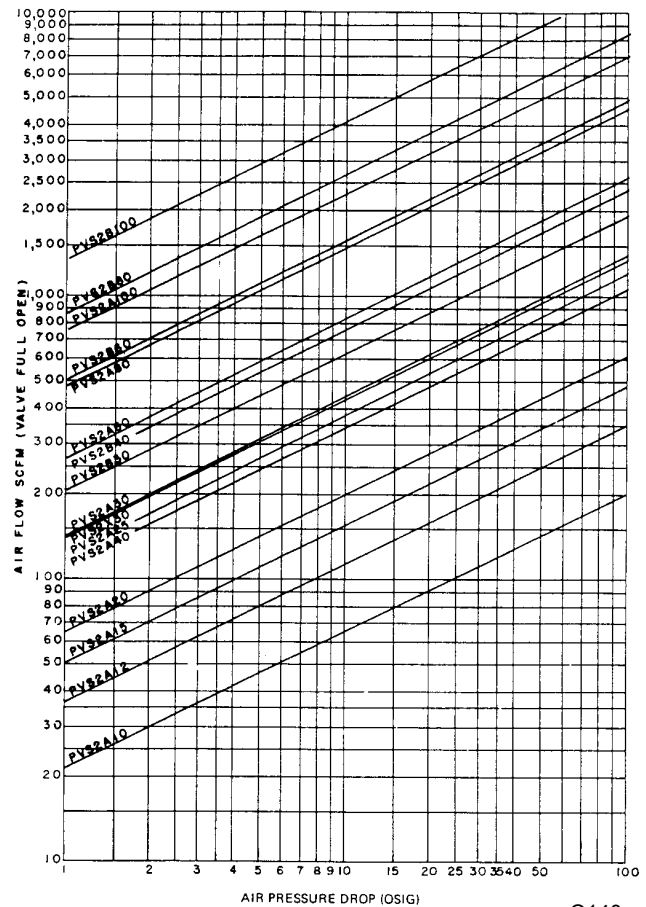
PVS ADJUSTABLE PORT VALVES

NATURAL GAS

AIR



Q137



Q140

NOTES:

1. Capacities based on gas @ 0.60 s.g., air @ 1.0 s.g., and 68°F temperature.
2. Static pressure drop measured across full open valve, i.e., pointer at position 10 and adjusting screw turned in fully.
3. Maximum inlet pressure is **15 psig** up to 4" valve size and **5 psig** for 6" and larger valve size.
4. Maximum temperature is **200°F**.

CORRECTION FACTORS

PRESSURE (GAS OR AIR Correction Factor C₁)

Pressure Drop (psig)	Inlet Pressure (psig)		
	5	10	15
1	1.15	1.29	1.42
2	1.63	1.80	1.95
3	1.95	2.25	2.45
4	2.20	2.50	2.85
5	2.45	2.75	3.00
10		3.70	4.05
15			4.70

TEMPERATURE (GAS OR AIR Correction Factor C₂)

Temperature (°F)	68	100	150	200
Multiplier	1.00	1.03	1.07	1.12

SPECIFIC GRAVITY (GAS Correction Factor C₃)

Gas	Coke Oven	Natural Gas		Blast Furnace	Propane	Butane	
Specific Gravity	.40	.59	.60	.61	1.02	1.52	2.01
Multiplier	1.224	1.007	1.000	.992	.767	.628	.547

EXAMPLE:

Determine the corrected volumetric flow rate in standard cubic feet per hour for a PVS2A20 (2") adjustable port valve for propane gas at 100°F having an inlet pressure of 15 psig and a pressure drop of 5 psig.

Using the equation: $Q(\text{corrected}) = C_1 \times C_2 \times C_3 \times Q(\text{rated})$

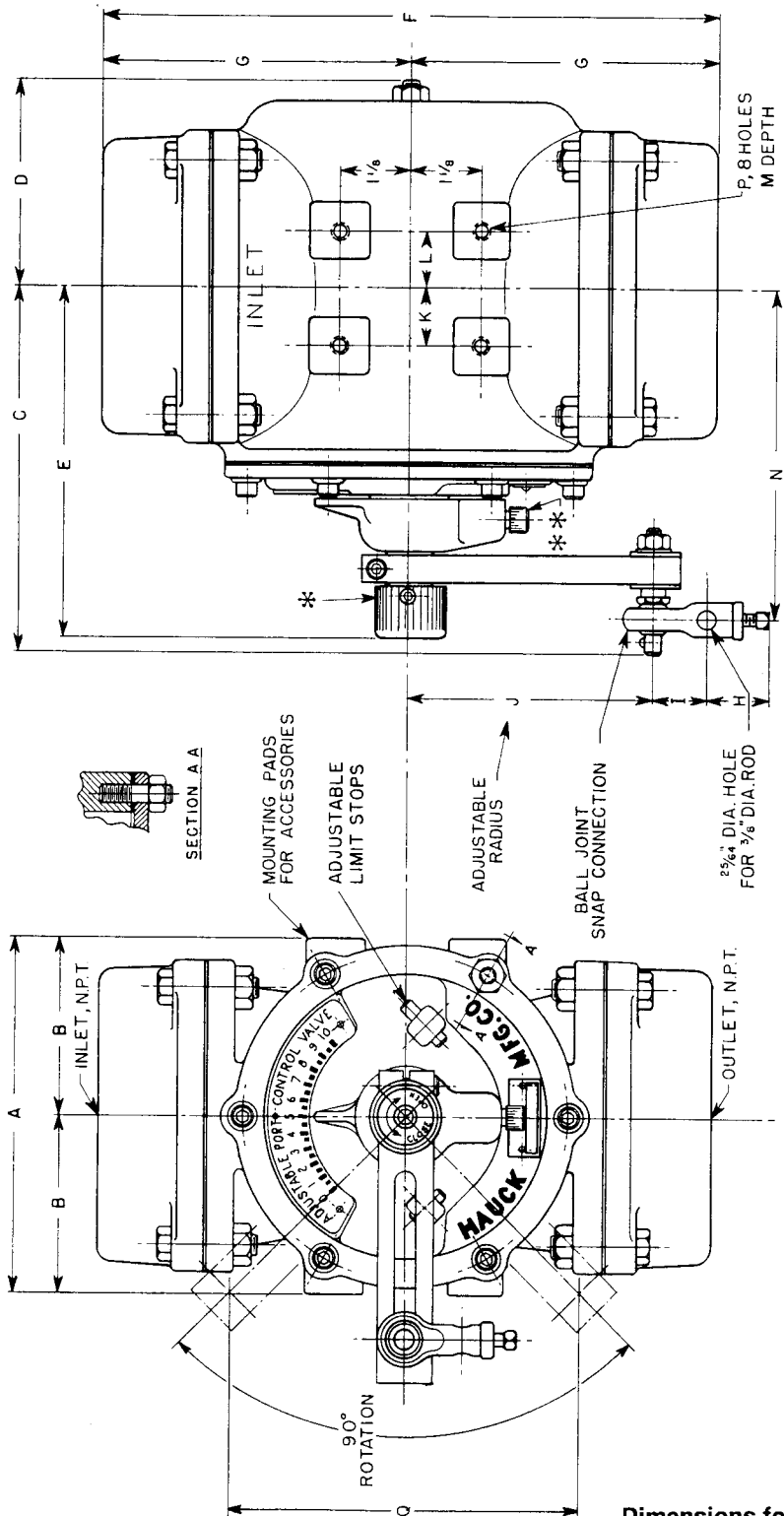
1. From the standard flow curve for Natural Gas (Q137) at 27.7 "w.c. pressure drop, determine the rated flow: $Q(\text{rated}) = 14,000$ scfh.
2. From the Pressure correction factor table, determine the pressure correction factor: $C_1 = 3.00$
3. From the Temperature correction factor table, determine the temperature correction factor: $C_2 = 1.03$
4. From the Specific Gravity correction factor table, determine the specific gravity correction factor for Propane: $C_3 = 0.628$
Then, $Q(\text{corrected}) = (3.00) \times (1.03) \times (0.628) \times (14,000)$
 $= 27,170$ scfh of propane gas

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.

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PVS ADJUSTABLE PORT VALVES



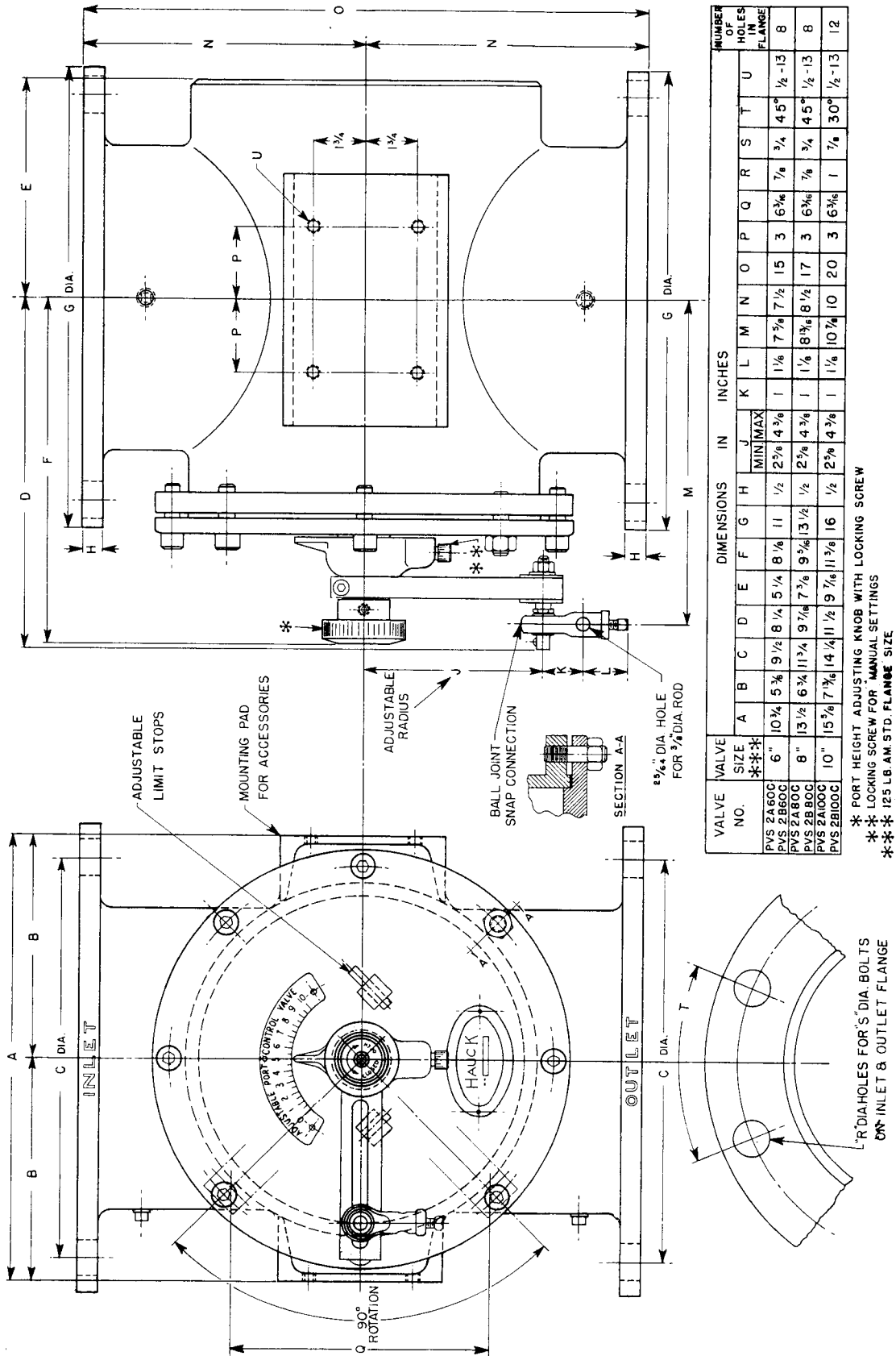
VALVE NO.	VALVE SIZE N.P.T.	DIMENSIONS IN INCHES																
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	P THD.	Q	
PVS 2A10	1"	3 7/8	1 15/16	4 15/16	2 13/16	4 3/4	6 3/8	3 3/8	1 1/8	1	2 5/8	4 3/8	7/8	1 1/8	5/16	4 5/16	5/16-18	6 3/16
PVS 2A12	1 1/4"	4 1/2	2 1/2	5 1/4	2 9/16	5 1/8	7 1/4	3 5/8	1 1/8	1	2 5/8	4 3/8	1 1/8	7/8	7/16	4 3/8	5/16-18	6 3/16
PVS 2A15	1 1/2"	5 1/8	3 1/8	6 1/8	3 1/4	6 1/4	10 7/8	5 7/8	1 1/8	1	2 5/8	4 3/8	1	1	1/2	5 3/16	5/16-18	6 3/16
PVS 2A20	2"	6 1/4	3 1/2	7 1/8	4 1/2	8 1/2	12 1/2	6 3/4	1 1/8	1	2 5/8	4 3/8	1 1/8	1 1/8	3/4	5 3/16	5/16-18	6 3/16
PVS 2A30	3"	8 1/4	4 1/2	9 1/8	5 1/2	10 1/2	15 1/2	7 3/4	1 1/8	1	2 5/8	4 3/8	1 1/8	1 1/8	3/4	5 3/16	5/16-18	6 3/16
PVS 2A40	4"	10 1/4	5 1/2	11 1/8	6 1/2	12 1/2	18 1/2	9 1/8	1 1/8	1	2 5/8	4 3/8	1 1/8	1 1/8	3/4	5 3/16	5/16-18	6 3/16
PVS 2A25	2 1/2"	5	2 1/2	5 3/4	3 3/4	5 3/4	9 1/4	4 13/32	1 1/8	1	2 5/8	4 3/8	1	1	3/16	5 3/16	5/16-18	6 3/16
PVS 2X30	3"	6 1/4	3 1/2	7 1/8	4 1/2	8 1/2	12 1/2	6 3/4	1 1/8	1	2 5/8	4 3/8	1 1/8	1 1/8	3/4	5 3/16	5/16-18	6 3/16

* PORT HEIGHT ADJUSTING KNOB WITH LOCKING SCREW
 ** LOCKING SCREW FOR MANUAL SETTINGS

Dimensions for 6,8 & 10 sizes on reverse side.

GY231

DIMENSIONS

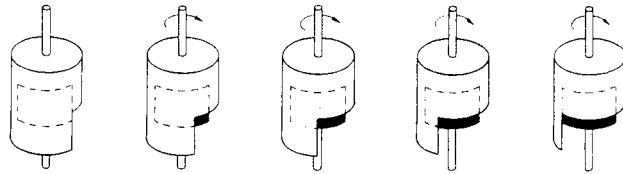


GY229



PVS ADJUSTABLE PORT VALVES

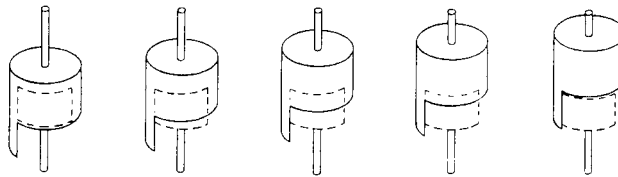
PORT WIDTH VALVE LEVER POSITION
(HEIGHT ADJUSTING KNOB AT 1/4 POSITION)



WIDTH POSITIONS
DIAL SETTING

CLOSED	1/4	1/2	3/4	OPEN
0	2.5	5	7.5	10

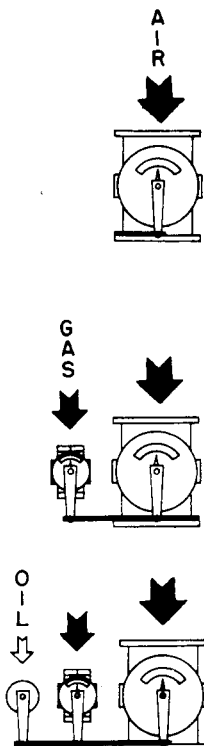
PORT HEIGHT ADJUSTING KNOB SETTING
(WIDTH LEVER AT POSITION 10)



HEIGHT POSITIONS

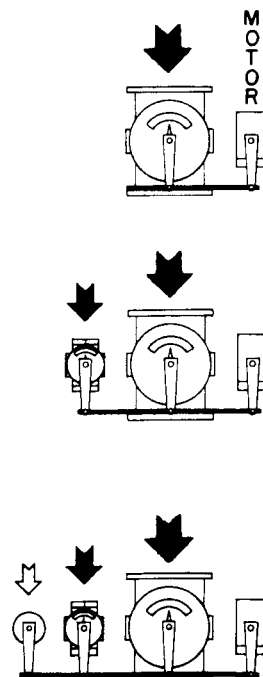
CLOSED	1/4	1/2	3/4	OPEN
0	25%	50%	75%	100%

MANUAL



MULTIPLE VALVES

AUTOMATIC



(OVER)

ADJUSTABLE PORT VALVE DIAGRAM

