

VR4304

Intermittent Pilot Combination Gas Control

Application

These intermittent pilot gas controls are used in gas-fired appliances with capacities up to 300 feet³/hour at 1 inch wc pressure drop [8.5 meters³/hour at 0.25 kPa] for natural gas. They include a manual valve, two automatic operators, a pressure regulator, pilot adjustment and a conduit cover. See Table 1 for temperature ranges and regulator types.

CAPACITY:

Size (Inlet x Outlet)	Capacity (at 1 inch wc pressure drop) ^a	Minimum Regulated Capacity	Maximum Regulated Capacity
1/2 x 1/2	240 feet ³ /hour [6.8 meter ³ /hour]	30 feet ³ /hour [0.8 meter ³ /hour]	340 feet ³ /hour [9.6 meter ³ /hour]
1/2 x 3/4	270 feet ³ /hour [7.6 meter ³ /hour]	30 feet ³ /hour [0.8 meter ³ /hour]	370 feet ³ /hour [10.5 meter ³ /hour]
3/4 x 3/4	300 feet ³ /hour [8.5 meter ³ /hour]	30 feet ³ /hour 0.8 meter ³ /hour]	415 feet ³ /hour [11.8 meter ³ /hour]

^a Capacity based on 1000 Btu/feet³, 0.64 specific gravity natural gas at 1 inch wc pressure drop [37.3 MJ/meter³, 0.64 specific gravity natural gas at 0.25 kPa pressure drop].

TABLE 1—TEMPERATURE RANGES AND
REGULATOR TYPES.

Model Number	Ambient Temperature Range	Regulator Type
VR4304H	0° F to 175° F [-18° C to +79° C]	Slow-opening
VR4304M	-40° F to 175° F [-40° C to +79° C]	Standard-opening
VR4304P	-40° F to 175° F [-40° C to +79° C]	Step-opening

Use conversion factors in Table 2 to convert capacities for other gases.

TABLE 2—GAS CAPACITY CONVERSION FACTORS.

Gas	Specific Gravity	Multiply Listed Capacity By
Manufactured	0.60	0.516
Mixed	0.70	0.765
Propane	1.53	1.62

BODY PATTERN: Straight-through.

INLET X OUTLET SIZES AVAILABLE: 1/2 x 3/4 inch and 3/4 x 3/4 inch.

ADAPTERS: Adapters available for 1/2 and 3/4 inch straight and angle connections. Refer to Table 3.

ELECTRICAL RATINGS:

Voltage and Frequency: 120 Vac, 60 Hz.

Current Draw: 0.14A.

TABLE 3—ADAPTER (FLANGE) PART NUMBERS.

Inlet/ Outlet Pipe Size	Flange Type	Part Number	
		Without Hex Wrench	With Hex Wrench
1/2 inch NPT	Straight	393690-6	393690-16
	Elbow	393690-3	393690-13
3/4 inch NPT	Straight	393690-4	393690-14
	Elbow	393690-5	393690-15

NOTE: Flange Kits include one flange with attached O-ring and four mounting screws.

APPROVALS:

American Gas Association design certificate:
L2025007.

Canadian Gas Association design certificate:
L2025007.

Australian Gas Association design certificate:
Applied for.
Delta C.