

Technical Data — ADVANCE® Model 480



Disinfection Products

Operation

All-Vacuum Gas Feed System

The ADVANCE® gas feeder consists of a vacuum producing ejector and a vacuum regulator to control the gas flow rate. All components are specifically constructed of materials compatible with chlorine. Gas feeders are actuated by a vacuum created by water or process fluid flowing through the remote ejector. The ejector consists of a vacuum producing venturi and a spring-loaded diaphragm.

Once opened, the ejector check valve permits the vacuum to move back through vacuum tubing to the system regulator mounted on the gas container. The vacuum causes the regulator's inlet valve to open, initiating gas flow. A spring-opposed diaphragm regulates the vacuum at this point.

Gas passes through the flowmeter(s), the rate control valve(s), and the system tubing to the ejector check valve assembly. Here, the gas is thoroughly mixed with the water or process fluid and applied as a solution.

General Specifications

Feed Rate Capacities	Ejector	
	Inlet	Outlet
100 PPD (2 kg/h) 50 PPD (1 kg/h)	1" hose	Universal diffuser for 3/4" NPT male thread, spray or open end, or 1" hose
25 PPD (0.5 kg/h)		
10 PPD (200 g/h) 4 PPD (75 g/h)		

Tubing Connections: 3/8" vent and vacuum

Back Pressure: Maximum back pressure at point of application is 140 psig (10 bar) (consult factory if higher back pressures are required)

Accuracy: Within $\pm 4\%$ of maximum flowmeter

Materials of Construction:

Chlorinator: ABS

Ejector: PVC

Options: Anti-siphon ejector, 3/4" NPT ejector inlet connection

Model Information Code

Model 4 8 1	C	
Maximum Capacity	Gas	Vacuum Regulator Mounting
1 - 100 PPD (2 kg/h)	C - Chlorine	1 - Cylinder or manifold mounted with rate valve
		3 - Cylinder or manifold mounted with remote meter and rate valve
		5 - Two cylinder or manifold mounted vacuum regulators with meter and rate valve, and automatic switchover

The minimum feed capacity for every gas flowmeter is 1/20th of the maximum capacity.

Available Models

Model	481C1	481C3 ⁽¹⁾	481C5 ^(1, 3)
Standard Equipment Note: All models can be manifold mounted.	1 vacuum regulator with chlorine gas flowmeter and rate valve, chlorine supply indicator and vent	1 vacuum regulator with chlorine gas flowmeter (no rate valve). chlorine supply indicator and vent	2 vacuum regulators with gas flowmeters (no rate valves), chlorine supply indicator and vent
	25ft (8 m) vacuum and vent tubing with screen	1 remote chlorine gas flowmeter and rate valve	1 vacuum operated automatic switchover module
		25 ft (8 m) vacuum and vent tubing with screen, 25 ft (8 m) added per each additional point of application	1 remote chlorine gas flowmeter and rate valve
	1 ejector/diffuser ⁽²⁾ 10 ft (3 m) flexible rubber hose ⁽²⁾	1 hose adaptor ⁽²⁾ 12 lead gaskets	4 hose clamps ⁽²⁾ 1 set spare parts 1 multipurpose wrench
	Shipping Weight 14 lbs. (6 kg)	Shipping Weight 15 lbs. (7 kg)	Shipping Weight 25 lbs. (11 kg)

(1) For multiple feed points, specify Models 481C3 or Model 481C5. Each provides one feed point as standard, however, additional feed points may be provided by addition of a meter panel and ejector per feed point.

(2) Per point of application

(3) Capacities 10 PPD (200 g/h) through 100 PPD (2 kg/h)

Design improvements may be made without notice.

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