

# Series G Pneumatic/Electric

- ▶ High-quality, full-port valve
- ▶ Compact, low-profile design
- ▶ Leak-proof elastomer packing gland
- ▶ Stock delivery pneumatic actuated 2"-12"
- ▶ Pneumatic or electric actuation for automatic control



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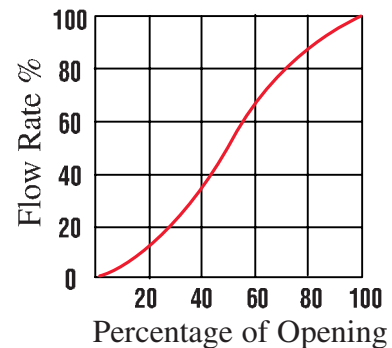
## Materials of Construction

- ▶ Cast iron body lined with 316 stainless steel
- ▶ 316 metal or EPDM resilient seat
- ▶ Pneumatic or electric actuator
- ▶ ANSI class 150

Red Valve manufactures a complete line of pneumatically and electrically actuated Series G Knife Gate Valves. The RD Actuator is constructed of a lightweight, self-lubricating Black Amalgon cylinder, aluminum cylinder heads and stainless steel piston rod. Black Amalgon is resistant to chemical and corrosive attack and is more dent resistant than aluminum or brass. Pneumatic positioners can be used to either close or open the valve upon increase of signal pressure. Optional electropneumatic positioners accept a standard ISA 4-20 mA signal. Listed below is an actuator sizing chart based on 60 psi plant air. Air to open/fail closed and air to close/fail open actuators are available up to 12 inches.

Electrically actuated knife gate valves are actuated by AUMA electric operators as a standard. These operators can be supplied with either 220-volt or 440-volt three-phase service and have a NEMA 4 rating. Standard features include Class F insulation, a double-lead ACME stem thread, bronze drive nut, declutchable handwheel override, opening and closing torque and stroke limit switches, three pushbutton station with selector switch and position indicator. Other electric operators, ratings and services are available. A modulation version is available that accepts the standard ISA 4-20mA input signal. When ordering electrically actuated knife gates, please specify electrical service and pressure drop across the valve.

**FLOW CHARACTERISTICS FULL-PORT SERIES G**



## Series G Pneumatic and Electric Actuator Sizing Chart Based on 60 psi Actuator Air Pressure

Line Press.	0-25 psi		26-50 psi		51-75 psi		76-100 psi		100-150 psi	
	Size	Pneumatic	Electric	Pneumatic	Electric	Pneumatic	Electric	Pneumatic	Electric	Pneumatic
2"	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1
3"	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1
4"	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1	RD-4	SA07.1
6"	RD-4	SA07.1	RD-4	SA07.1	RD-6	SA07.1	RD-6	SA07.1	RD-6	SA07.5
8"	RD-6	SA07.5	RD-6	SA07.5	RD-6	SA07.5	RD-6	SA07.5	RD-8	SA07.5
10"	RD-8	SA07.5	RD-8	SA07.5	RD-8	SA07.5	RD-8	SA07.5	RD-8	SA07.1
12"	RD-8	SA07.5	RD-8	SA07.5	RD-8	SA10.1	RD-8	SA10.1	RD-10	SA10.1
14"	RD-8	SA10.1	RD-8	SA10.1	RD-10	SA10.1	RD-10	SA10.1	RD-12	SA14.1
16"	RD-10	SA10.1	RD-10	SA10.1	RD-12	SA14.1	RD-12	SA14.1	RD-12	SA14.1
18"	RD-10	SA14.1	RD-10	SA14.1	RD-12	SA14.1	RD-12	SA14.1	RD-14	SA14.1
20"	RD-12	SA14.1	RD-12	SA14.1	RD-14	SA14.5	RD-14	SA14.5	RD-16	SA14.5
24"	RD-14	SA14.5	RD-14	SA14.5	RD-16	SA14.5	RD-16	SA14.5	RD-20	SA16.1