INSTALLATION AND MAINTENANCE INSTRUCTIONS

2-WAY REMOTELY TRIPPED CLOSED CABLE RELEASE GAS VALVE
1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 AND 3" NPT
NORMALLY CLOSED OPERATION

BULLETIN
216-585
ASCO
Form No. V6175

DESCRIPTION

Bulletin 216-585 is a 2-way, normally closed, remotely tripped closed cable release gas valve. Valves are of aluminum construction.

OPERATION (See CABLE CONNECTION)

Normally Closed: Valve is in closed position, opens when cable is set. It remains open until cable is tripped, closing the valve. Valve will open when cable is reset.

INSTALLATION

Check nameplate for correct catalog number, pressure, maximum operating pressure differential and safe working pressure.

TEMPERATURE LIMITATIONS

Maximum ambient and fluid temperature is 120°F. For higher ambient and fluid temperature limitations, consult factory.

POSITIONING

Valve may be mounted in any position.

PIPING

Connect piping to valve according to markings on valve body. Apply pipe compound sparingly to male pipe threads only; if applied to valve threads, it may enter valve and cause operational difficulty. Pipe strain should be avoided by proper support and alignment of piping. When tightening pipe, do not use valve as a lever. Wrenches applied to valve body or piping are to be located as close as possible to connection point.

CAUTION: To avoid damage to the valve body, DO NOT OVER-TIGHTEN PIPE CONNECTIONS. If TEFLON* tape, spray or similar lubricant is used, use extra care due to reduced friction.

IMPORTANT: For the protection of the valve, install a strainer or filter suitable for the service involved in the inlet side as close to the valve as possible. Periodic cleaning is required, depending on service conditions. See Bulletins 8600, 8601 and 8602 for strainers.

CABLE CONNECTION

When cable connection is made, be sure there is no binding or kinking of the cable that would prevent the valve from tripping closed.

IMPORTANT: Be sure that the load developed by the attachment mechanism at the valve stem does not exceed the valve closing spring force when tripped. (See Table, Figure 2.)

*DuPont's registered trademark for its TFE-fluorocarbon resin

MAINTENANCE

WARNING: Turn off line pressure to valve before inspection, cleaning or repairs. It is not necessary to remove valve from line.

CLEANING

A periodic cleaning of all valves is desirable. The time between cleanings will vary depending on medium and service conditions. In general, sluggish valve operation or excessive leakage will indicate that cleaning is required. Clean valve strainer or filter when cleaning valve.

PREVENTIVE MAINTENANCE

1. Keep medium flowing through valve as free from dirt and foreign material as possible.
2. While in service, periodically operate valve to insure proper opening and closing.

IMPROPER OPERATION

1. **Incorrect Pressure:** Check valve pressure. Pressure to valve must be within range specified on nameplate.
2. **Excessive Leakage During Periodic Inspections:** Disassemble valve and clean valve disc and seat with a lint-free cloth. Refer to "Valve Disassembly and Reassembly."

VALVE DISASSEMBLY AND REASSEMBLY

(Cleaning — Refer to Figure 1.)

Depressurize valve before internal parts inspection and cleaning.

1. Valve should be in the released, tripped closed position with cable released from main source if necessary.
2. Remove valve bonnet screws and tilt bonnet to expose valve disc. Clean valve disc and seat with a lint-free cloth. Inspect seat in valve for nicks or damage that would cause seat leakage. On 1/2 and 3/4" sizes, lubricate valve disc with DOW CORNING® 111 compound or an equivalent high-grade silicone grease. On all sizes, lubricate body gasket with the same lubricant.
3. Reassemble in reverse order of disassembly paying careful attention to exploded view provided for identification and placement of parts.
4. Replace bonnet screws, tightening them in a crisscross manner. For 1/2 and 3/4" NPT, torque bonnet screws 110 ± 10 inch-pounds [12,4 ± 1,1 newton meters]. For 1, 1-1/4, 1-1/2 and 2" NPT valves, torque bonnet screws 144 ± 15 inch-pounds [16,3 ± 1,7 newton meters]. For 2-1/2 and 3" NPT valves, torque bonnet screws 250 ± 25 inch-pounds [28,3 ± 2,8 newton meters].

VALVE REPLACEMENT

Ordering Information for Valve Replacement

When Ordering a Replacement Valve, Specify Valve Catalog Number.

Form No. V6175 PRINTED IN U.S.A. 1980 Automatic Switch Co.
ASCO Valves
FLORHAM PARK, NEW JERSEY 07932

BONNET SCREW TORQUE VALUES		
NPT	INCH-POUNDS	NEWTON METERS
1/2, 3/4	110 ± 10	12,4 ± 1,1
1, 1-1/4, 1-1/2, 2	144 ± 15	16,3 ± 1,7
2-1/2, 3	250 ± 25	28,3 ± 2,8

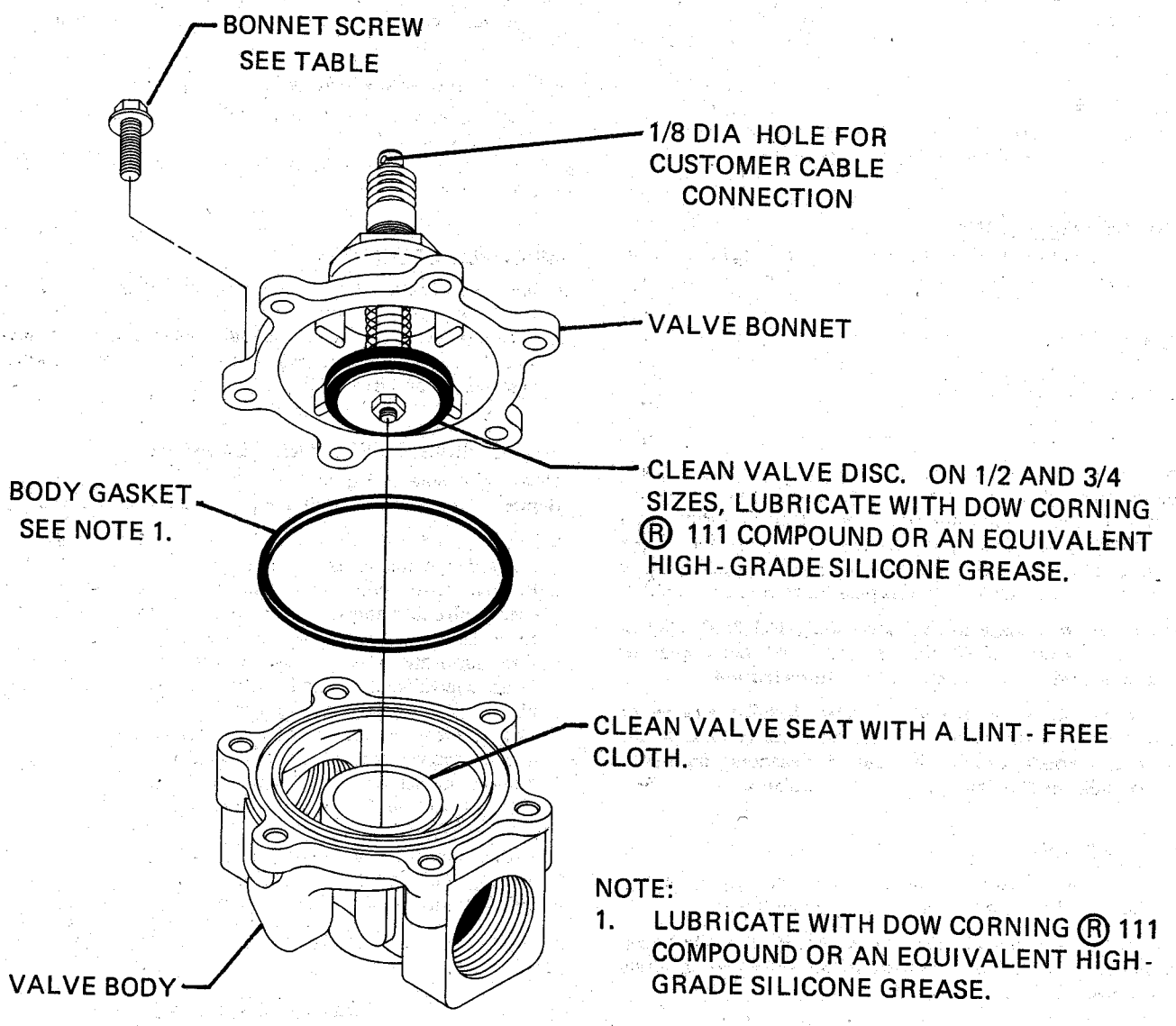

Figure 1.

Bulletin 216-585

DIMENSIONS										
Catalog Number	NPT	A	B	C	D	E	F (Max.)	G	H	Closing Spring Force
216-585-1	3/4	3 5/16	1 21/32	3 3/4	4	4 13/16	3/16	1 9/64	2 11/32	8 LBS.
216-585-2	1	5	2 3/8	5 19/32	5 27/32	7 5/32	17/32	2 11/16	5 3/8	10 LBS.
216-585-3	1 1/4									
216-585-4	1 1/2			5 21/32	5 51/64					
216-585-5	2	6 3/32	2 13/16	6	6 1/4	7 3/4	39/64	3 5/32	6 5/16	
216-585-6	2 1/2	7 51/64	3 29/32	7 3/8	7 5/8	9 61/64	29/32	4 1/8	7 61/64	
216-585-7	3	7 25/32	3 57/64							
216-585-8	1/2	2 3/4	1 3/8	3 9/16	3 13/16	4 3/8	3/16	1 9/64	2 11/32	8 LBS.

NOTE: "F MAX." IS FULL OPEN POSITION OF VALVE. DO NOT EXCEED, AS DISTORTION OF INTERNAL PARTS CAN RESULT.

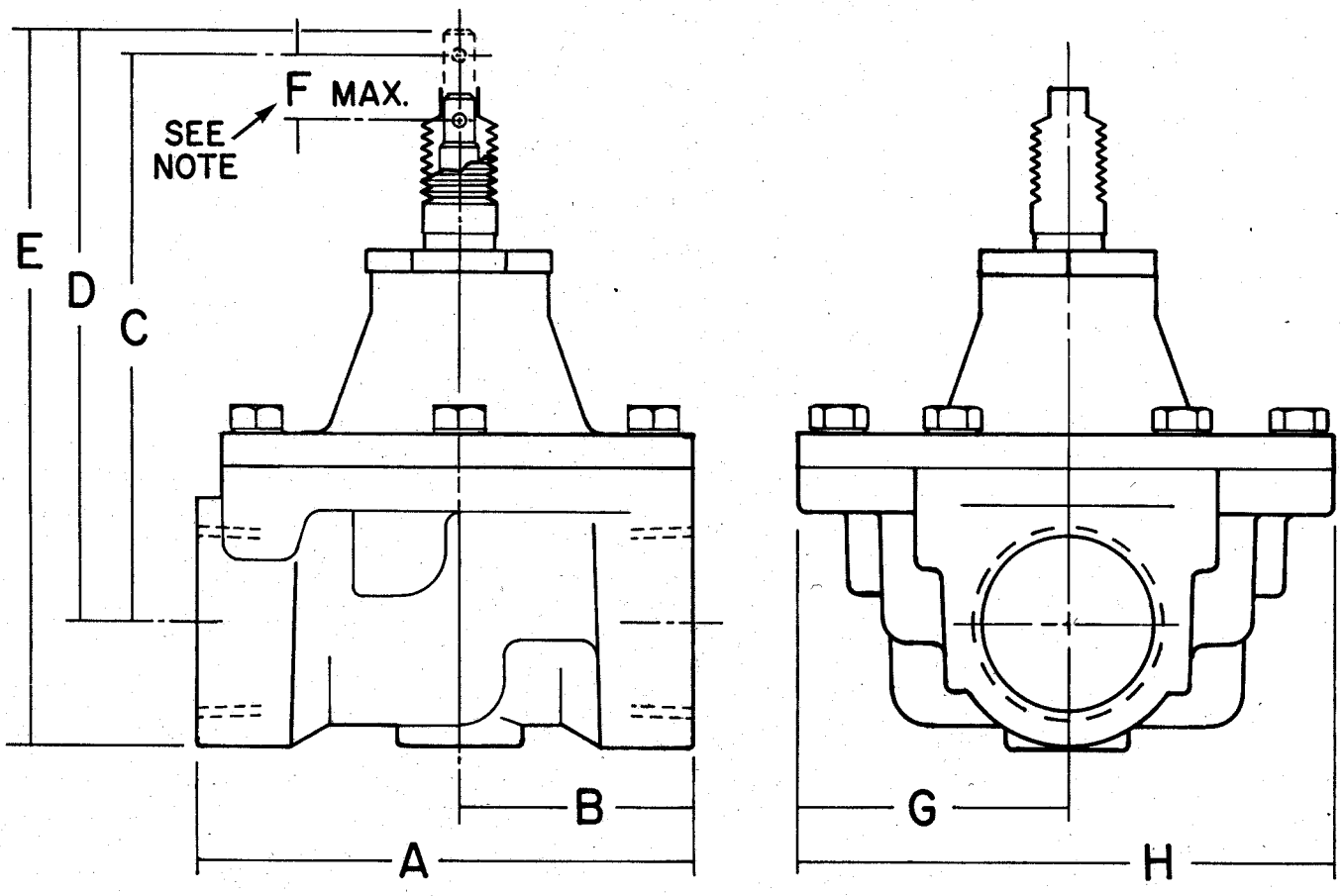

Figure 2.