

INSTALLATION AND MAINTENANCE INSTRUCTIONS

2-WAY PULL TO TRIP 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

216-587

ASCO

Form No. V6177

DESCRIPTION

Bulletin 216-587 is a 2-way, normally closed, pull to trip closed, cable release gas valve. Valves are of aluminum construction. Customer will supply cable to trip valve.

OPERATION

Normally Closed: Valve is in the open position until cable is pulled, tripping the release mechanism, closing the valve. Valve will remain closed until the cover is removed from the housing and the trip mechanism is manually reset.

IMPORTANT: Valve is designed to trip closed when a 15 pound minimum force is exerted on the cable. It is strongly recommended that an additional force above the 15 pounds be applied to the cable to insure valve closing.

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 OVERTIGHTEN PIPE CONNECTION. 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. A 1/8 diameter through hole is provided in the trip mechanism for cable connection.

RESETTING OF CABLE RELEASE MECHANISM

(Opening Valve — Refer to Figure 1.)

1. Release tension on trip cable.
2. Remove cover screw and cover on nameplate side of valve.
3. With cable released, hold release mechanism up, lift horizontal pin and engage release mechanism. Be sure pin is fully engaged with release mechanism.

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

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4. Replace cover and cover screw.

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. Disconnect conduit connection if rigid connection is used.
2. Valve should be in the released, tripped closed position with cable released from main source or valve if necessary.
3. 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.
4. Reassemble in reverse order of disassembly, paying careful attention to exploded view provided for identification and placement of parts.
5. Replace bonnet screws, tightening them in a crisscross manner. For 1/2 and 3/4 NPT valves, torque bonnet screws 110 ± 10 inch-pounds [12.4 ± 1.1 newton meters]. For 1, 1 1/4, 1 1/2 and 2 inch NPT valves, torque bonnet screws 144 ± 15 inch-pounds [16.3 ± 1.7 newton meters]. For 2 1/2 and 3 inch 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.

ASCO Valves

ASCO

FLORHAM PARK, NEW JERSEY 07932

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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

CUTAWAY VIEW WITH COVER REMOVED
VALVE IN RELEASED, TRIPPED CLOSED
POSITION. STEM PIN DISENGAGED FROM
RELEASE MECHANISM. VALVE WILL RE-
MAIN IN THIS POSITION (CLOSED) UNTIL
TRIP MECHANISM IS MANUALLY RESET.

LATCH MECHANISM PROVIDED
WITH 1/8 DIA. THROUGH HOLE
FOR CUSTOMER'S CABLE

STEM PIN DISENGAGED

VALVE BONNET

CLEAN VALVE DISC. ON 1/2 AND 3/4
SIZES, LUBRICATE WITH DOW CORNING
® 111 COMPOUND OR AN EQUIVALENT
HIGH-GRADE SILICONE GREASE.

BODY GASKET
SEE NOTE 1.

CLEAN VALVE SEAT WITH A LINT-FREE
CLOTH.

VALVE BODY

STEM PIN ENGAGED

CUSTOMER'S
CABLE

NOTE:
1. LUBRICATE WITH DOW CORNING
® 111 COMPOUND OR AN EQUIVALENT HIGH-
GRADE SILICONE GREASE.

CUTAWAY VIEW WITH COVER REMOVED
VALVE IN LATCHED OPEN POSITION. STEM
PIN ENGAGED WITH RELEASE MECHANISM.

Figure 1.

Bulletin 216-587

CATALOG NUMBER	NPT	DIMENSIONS					
		A	B	C	D	E	F
216-587-1	1/2	8 1/2	7 1/16	1 3/8	2 3/4	1 9/84	2 23/84
216-587-2	3/4	8 11/16	7 1/2	1 21/32	3 5/16	1 5/32	2 11/32
216-587-3	1	8	9 8/16	2 3/8	5	2 11/16	5 3/8
216-587-4	1 1/4	8 1/16					
216-587-5	1 1/2	8 17/32	10 1/32	2 13/16	6 3/32	3 5/32	6 5/16
216-587-6	2	9 9/16	11 57/64	3 29/32	7 51/64	4 1/8	7 61/64
216-587-7	2 1/2						
216-587-8	3						

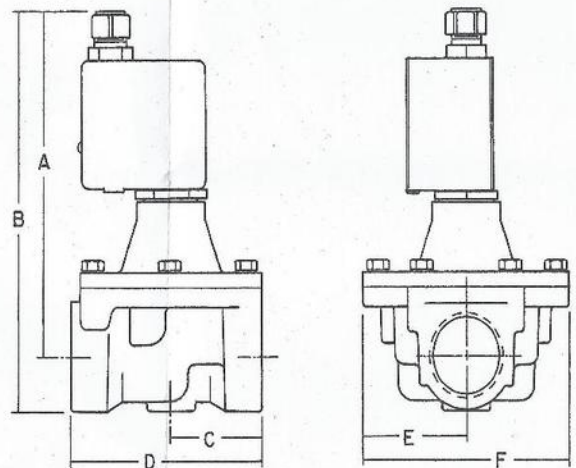


Figure 2.

Bulletin 216-587