



## CASH VALVE TYPE E-55

### CRYOGENIC PRESSURE REDUCING VALVE OR PRESSURE BUILD-UP REGULATOR INSTALLATION INSTRUCTIONS

Before installation, these instructions must be carefully read and understood.

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#### DESCRIPTION

The Type E-55 pressure reducing and regulating valve for cryogenic service is specifically designed for use in the pressure build-up circuit and maintains a relatively constant pressure differential across the valve even during high flow rates.

The Type E-55 pressure reducing valve is also available for final-line gas service. For specific information, consult the factory.

#### SPECIFICATION DATA

**Service:** Liquid or gas

**Sizes:** 1¼", 1½" and 2"

**Connections:** Threaded internal inlet and outlet (available with NPT or BSP threads)

**Body:** Bronze

**Temperature Rating:** 150°F to -320°F (65°C to -195.5°C)

**Maximum Initial Pressure:** 400 psi (27.6 bar)

**Capacity:**

For specific capacity information, consult the factory.

#### GENERAL INSTALLATION INSTRUCTIONS

Type E-55 regulators should be installed in the horizontal position with the spring chamber upright. For other installation requirements, consult the factory. For ease of operation and maintenance, it is suggested that manual shut-off valves be installed upstream and downstream from the valve. Before installing the valve, the piping and valve should be thoroughly flushed out to remove any foreign material. Install the valve with the inlet pipe fitted to the inlet connection identified on the valve body. Use a compatible sealant on the male pipe threads and do not over tighten the valve connections.

#### CONSTRUCTION

See component description for materials of construction.

All parts are commercially cleaned for cryogenic service.

#### OPERATING INSTRUCTIONS

**Adjusting the Delivery Pressure:**

The regulator's delivery pressure setting is adjusted by turning the adjusting screw (1) at the top of the spring chamber after loosening the adjusting screw lock nut (2). To increase the delivery pressure, turn the adjusting screw clockwise (into the spring chamber). To decrease the delivery pressure, turn the adjusting screw counter-clockwise (out of the spring chamber). Tighten the adjusting screw lock nut after the adjustment has been made.

#### MAINTENANCE INSTRUCTIONS

##### CAUTION

*Before attempting to replace any spare parts, be sure to shut off all pressure connections to the valve. With the valve closed, however, system pressure could still be locked between the shut-off valve and the inlet and/or outlet sides of the regulator. Before proceeding with any valve service, be certain to relieve the pressure from BOTH sides of the regulator.*

*Refer to the Type E-55 regulator section view for parts identification.*

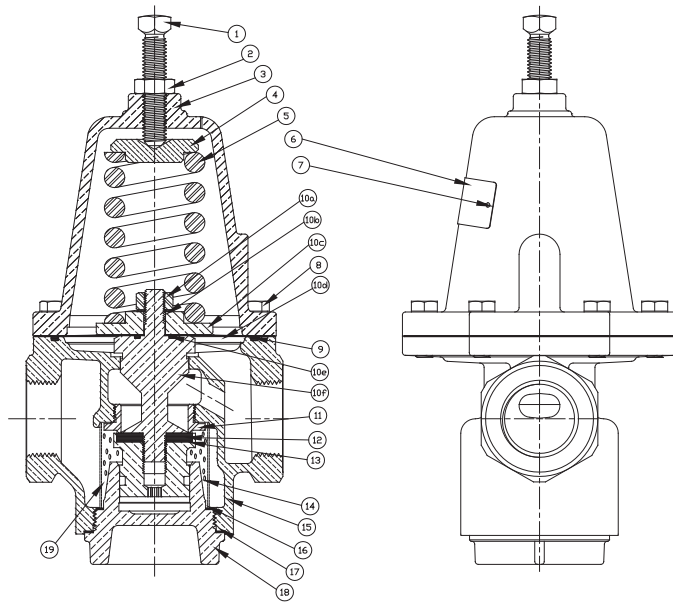
*It is not necessary to remove the valve from the line for servicing.*

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No.	Component Description	Construction
1	Adjusting Screw	SST
2	Lock Nut	SST
3	Spring Chamber	Bronze
4	Spring Button	Brass
5	Pressure Spring	SST
6	Name Plate	Aluminum
7	Drive Screw	SST
8	Screw	SST
9	O-ring	Teflon
10	Diaphragm Sub	
10a	Nut	SST
10b	Washer	SST
10c	Pressure Plate	Brass
10d	Diaphragm	SST
10e	O-ring	Teflon
10f	Pusher Post	Brass
11	Seat Ring	SST
12	Seat Disc	Teflon
13	Piston	Brass
14	Screen	Monel
15	Body	Bronze
16	Gasket	Teflon
17	Gasket	Teflon
18	Bottom Plug	Bronze
19	Screen	Monel

FIGURE 1



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