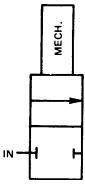


# Vent Valve 82867 Series

82867-A1 Shown



J.I.C. Symbol

#### **GENERAL DESCRIPTION**

The No. 82867-A1 and 82867-B1 Vent Valves are snap-acting valves operated by mechanical motion and designed for use with Robertshaw engine control components.

The valves are used to vent a pneumatic signal when the trip lever is actuated. Unit is ideal for use with bearing temperature detectors.

#### **SPECIFICATIONS**

#### **Construction:**

Forged brass body, aluminum actuating lever. Viton O-rings. Stainless steel spring and pivot pin. All other parts brass.

Supply Pressure:	$25 \pm 5$ psi.
Maximum Pressure:	60 psi.
CAUTION: Do not exceed m	aximum pressure.
Flow Coefficient:	Cv = .2 min.
Mounting:	Surface (see Figure 1).
Actuating Force:	See "Operation."
Connections:	1/4"-18 NPT.
Reset:	See "Operation."

#### **Models Available:**

No. 82867-A1 - Straight Actuating Lever No. 82867-B1 - "T" Shaped Actuating Lever

## Ordering Information:

**Specify:** 

- 1. Model No.
- 2. Any special features.

#### INSTALLATION

#### A. GENERAL

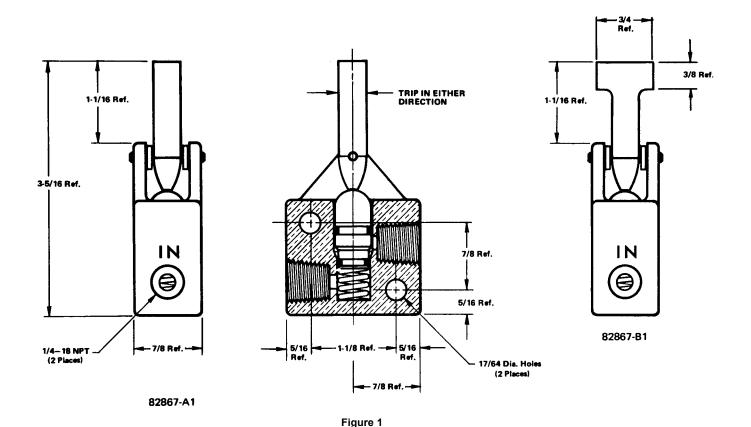
Tubing and fittings used to connect vent valve must be free of chips, dirt, moisture or other foreign matter. If compound or shellac is used, apply it above second or third male thread in moderate amount. Do not allow compound to be deposited inside sensor.

For continuous, trouble-free operation, the supply pressure must be clean and dry.

#### **B. MOUNTING**

When installing the No. 82867-A1 and 82867-B1 vent valves, care must be taken to prevent any foreign matter from entering the ports.

The valve may be installed in any position and should be securely mounted, using the two 17/64" diameter holes provided (clearance for 1 /4"screws).



#### **OPERATION - See Figure 2**

#### A. ACTUATING FORCE

A force of two pounds is required to trip lever, Detail 1, when applied to the top 1/4" of actuating lever. End movement required is 7/16" minimum.

#### B. TRIP CYCLE

The trip lever, which receives the force to be monitored, rotates about roll pin, Detail 3.

Sufficient force applied to trip lever, Detail 1, in either direction causes it to rotate allowing valve plug, Detail 4, to move up and off seat. Inlet pressure and spring provide force for plug movement.

Reset may only be accomplished manually by rotating trip lever to the upright position.

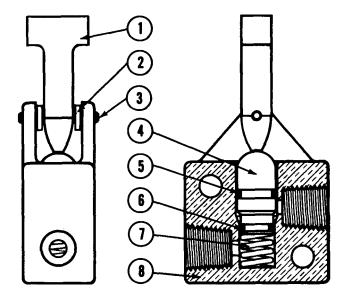
#### **MAINTENANCE**

If vent valve does not function properly due to leakage or contamination by foreign matter, disassemble and clean all metal parts with non-flammable solvent and dry thoroughly.

#### **CAUTION:**

If cleaning is required, do not subject O-rings to cleaning fluid, acetone, or any halogenated hydrocarbons such as vapor degrease liquids, etc. Clean only with a soft, dry cloth.

Upon reassembly, the 0-rings should be lubricated with a silicone-type lubricant.



82867-B1 shown

Figure 2

DETAIL	NAME	NO. REQ'D	PART NO.
1	Lever	1	See Tab.
2	Washer	4	36600-D0600
3	Roll Pin	1	36606-A13
4	Valve Plug	1	31740-A1
5	O-Ring	1	36240-V0012
6	O-Ring	1	36240-V0011
7	Spring	1	31744-A1
8	Valve Body	1	31741-B1

### TABULATION:

Model No.	Detail 1	
82867-A1	31742-A1	
82867-B1	31742-B1	



U.S.A. and CANADA

Robertshaw Industrial Products Division 1602 Mustang Drive Maryville, TN 37801 Phone: (865) 081 3100 Fey: (865) 081 3168

Phone: (865) 981-3100 Fax: (865) 981-3168 http://www.robertshawindustrial.com

#### **Exports**

Invensys Appliance Controls 2809 Emerywood Parkway P.O. Box 26544 Richmond, Virginia 23261-6544

Phone: (804) 756-6500 Fax: (804) 756-6561

Q-2668 (5/01)

Printed in U.S.A.

