Model 4054

Trip Indicator

AMOT Model 4054 Indicator are designed to show which sensing device in a safety control system has tripped and caused the engine to shut down.

The 4054 Trip Indicator is Gulfproofed to resist corrosion in seacoast atmospheres. A transparent plastic cover is provided to protect the shaft. It is suitable for air, gas or oil safety control systems. Any desired number of sensing valves and Trip Indicators may be used in the safety systems .

Model 4054 Trip Indicator may be used with many AMOT sensing valves, including Models 2230/4021/4075/4103 Temperature Valves, Models 1672/4023/4047/5052/4064/4143/ Pressure Valves and 1652/1943/4095 Trip Valves.

This indicator is not suitable for use with sensing valves which have metal-to-metal seats or where some leakage past the seat is expected, i.e. AMOT Model 4190 Fluid Level Sensor or 4110 Speed Valve (oil Version only).

Operation

The 4054 is typically piped to the VENT port of an AMOT sensing valve. When the sensing valve vents, the pressure forces the red shaft of the 4054 out where it can be seen. A small detent latches the shaft when fully extended, preventing resent due to vibration. The shaft is manually reset by pushing on the flexible plastic cover until the shaft is flush with the indicator face.

Because lube oil is the control medium in the typical system shown in Figure 2, there will not be direct indication when shutdown is due to low oil pressure. If there is a system shutdown and no indication, it should be assumed that low oil pressure is the cause.

Features

- **PINPOINTS TROUBLE**
- **WIDE PRESSURE RANGE**
- **GULFPROOFED ALUMINUM CONSTRUCTION**
- **FOR OIL, GAS OR AIR PRESSURED SYSTEMS**

Applications

- **SENSOR TRIP INDICATION IN PNEUMATIC OR HYDRO-MECHANICAL SYSTEM**

  - ENGINES

  - PUMPS

  - COMPRESSORS

Specifications

Body Material ..... Gulfproofed Aluminum
Shaft Material ..... Stainless Steel
Standard Seal Material ..... Viton
Cover Material ..... polyvinyle chloride (PVC)
Minimum Operating Pressure ..... 10 psi (69 kPa)
Maximum Operating Pressure ..... 80 psi (550 kPa)
Net Weight ..... 4 oz (0.11kg)

Installation

The AMOT 4054 Trip Indicator may be connected directly to the VENT port of the AMOT sensing valve as shown in Figure 1. It may also be mounted remotely as shown in Figure 2. if the given limits are not exceeded. For panel mounting, Panel Spring (6) and Ring (7) are provided. The Retaining Ring (7) should be used in all installations to help hold Cover (9) in place.

When used in panel mounting applications; to install the Cover, (a) push the unit through the panel from behind, snap on the plastic Cover over the Retaining Ring and then release.

When assembling fittings and tubing, apply a quality pipe sealant such as Loctite Pipe Sealant or use Teflon thread sealing tape. Make sure that excess tape, sealant, dirt, and tubing chips are removed from fittings and tubing before they are connected to sensing valves or trip Indicators.

Note: Letters or numbers in the MTO space, other than nothing, AI or AA, indicate the unit is built to special requirements and some of the other codes numbers may not be valid. Check with the factory for full specifications of such models.

How To Order

When ordering please specify the following:

1. AMOT Model 4054C.

2. Any of the following special features if required:

   a. BSP Tapered Port Threads (instead of NPT). Available form U.K. factory only.

This unit may be ordered using the full description as shown above or by constructing a Model Number using the Model Code System. The complete Model Number for the standard unit with NPT port threads and Buna N seals is 4054C1B.

Model Code System

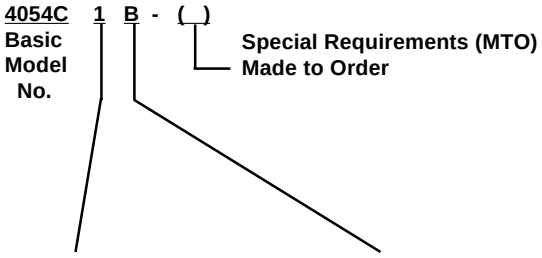
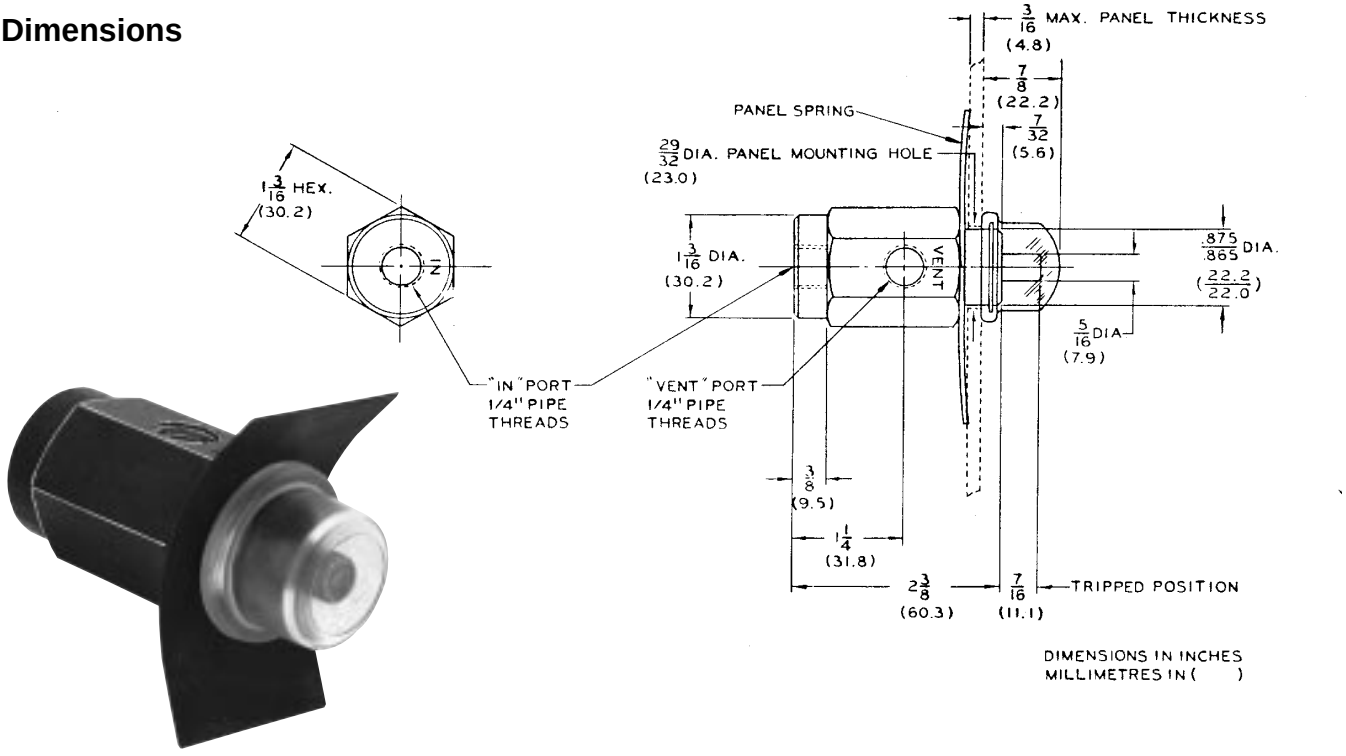
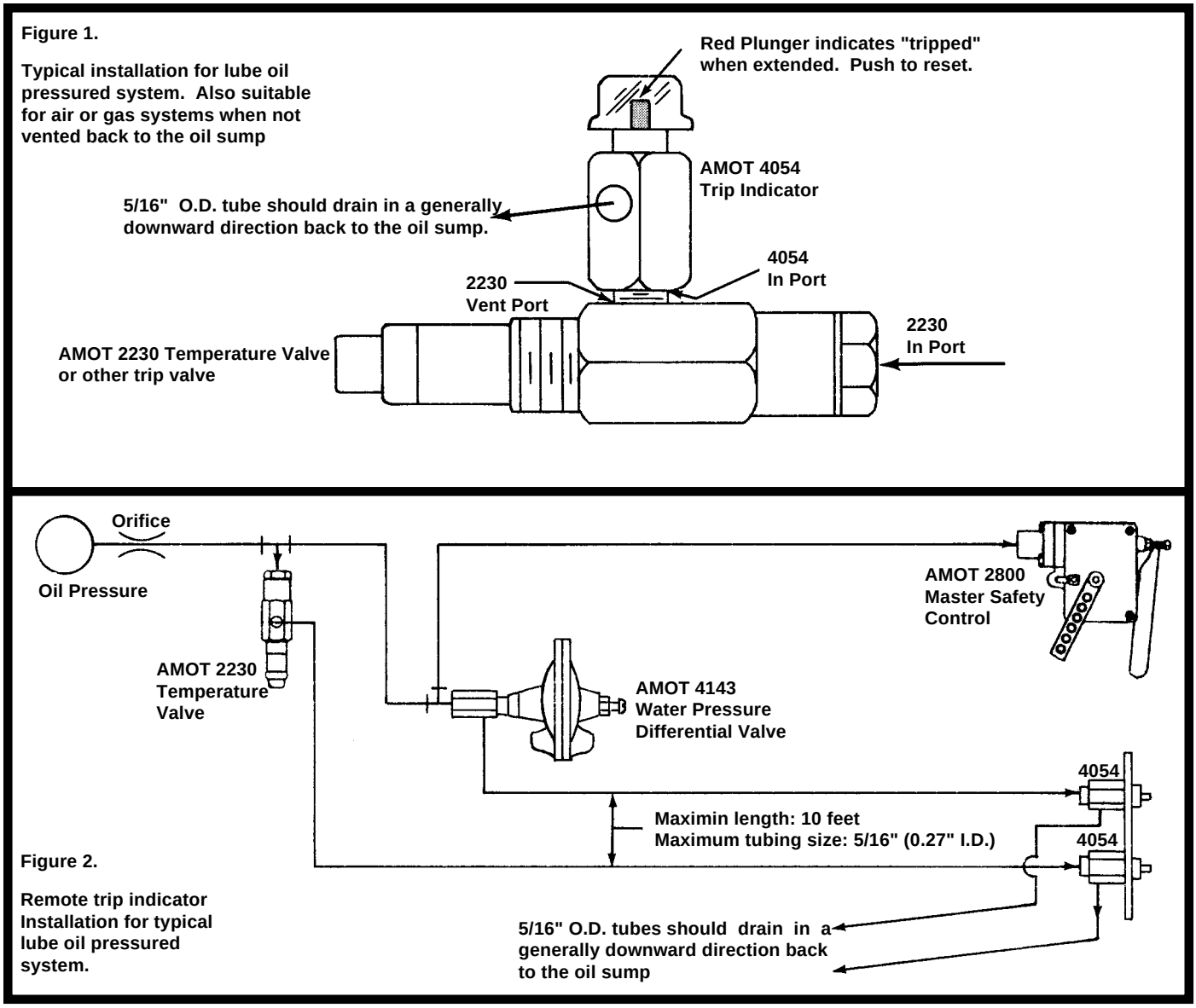


TABLE A Threads		TABLE B Seal Material	
Code No.	Thread	Code No.	Thread
1	1/4 NPT		
2*	1/4 BSP(Tr)	B	Viton

* Available from U.K. factory only.

Dimensions





Maintenance

Properly applied and installed, 4054 Trip Indicators require minimal maintenance. Detailed inspection at yearly intervals is adequate to detect and make provision for normal wear and preventive maintenance.

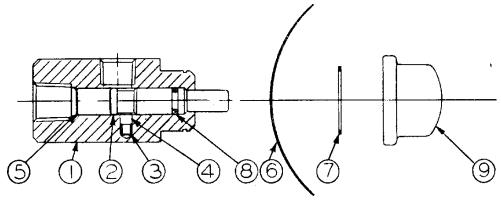
Care should be taken to keep Cover (9) in place on the Trip Indicator to prevent the Shaft from being frozen in place by painting or dirt. If the Shaft is frozen in place, the Trip Indicator will not allow its related sensing valve to vent and will thereby prevent shutdown.

When this indicator is used in a safety control system, it is recommended that the system be checked monthly for proper fuctioning.

When installing a new O-ring, lubricate it and Shaft (5) lightly with a good grade of petroleum-based grease before assembling.

AMOT designs and tests all its products to ensure that high quality standards are met. For good product life, carefully follow AMOT's installation and maintenance instructions; failure to do so could result in damage to the equipment being protected or controlled.

When communicating with AMOT regarding operation of a control, always give the Model No. and Serial No. If ordering service parts, also include the Description, Part No., and quantity desired. If any parts are ordered by Reference No. only, please include the Form No., Revision No., and date of this Brochure.



Service Parts

Ref. No.	Part No.	Qty.	Description
5	361L005	1	Retaining Ring
8	1625L001	1	O-ring, Viton
9	40925	1	Cover

This Parts List effective with Valve Serial No. A751.

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8575 / 8576 µGauge

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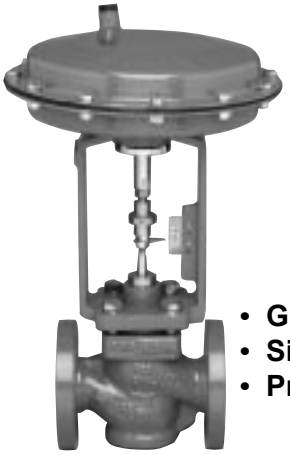
- Optional 4-20 mA Re Transmit
- Solid State Design for Rugged Environments
- Div. 1 and Div. 2 Hazardous Area Versions Available



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