

# Safety Shutdown Device

Model 2800

## Overview

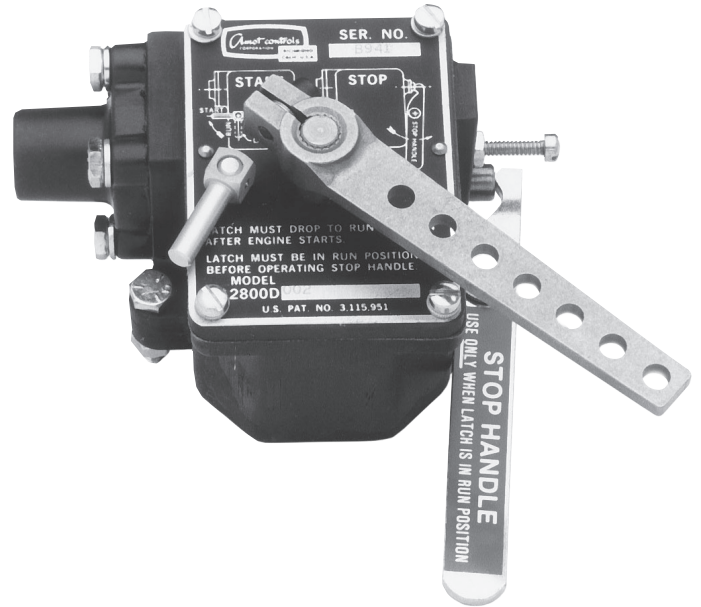
The 2800 is a safety shutdown device which senses oil pressure or other control pressure. The device is typically connected to an engine fuel rack governor or fuel pump stop lever. Should a loss or drop in oil pressure occur below the setpoint the 2800 will trip immediately.

## Typical applications

Monitors pressure or temperature on rotating machinery in hazardous and industrial applications

## Key features and benefits

- Entirely Mechanical – Requires no external power source
- Safe in hazardous area installation
- Snap acting - Immediate shutdown on sensed pressure loss
- Easy installation and operation



**Model 2800  
Safety Shutdown Device**

# Safety Shutdown Device - 2800

## Operation

Model 2800 may be used alone or as the engine shutdown component in an engine monitoring system. Model 2800 is a snap acting device monitoring low lubricating oil pressure or other control pressure. An emergency stop handle and a trip pressure adjusting screw are standard. Factory set to trip at 0.7 bar (10 psi) and field adjustable, from 0.35-2.8 bar (5-40 psi). A trip Lever is installed on a splined shaft, and can be clamped in any of 36 radial positions to facilitate installation in most applications. The lever permits mechanical linkage between the tripping unit and the engine governor control, fuel pump stop lever or other mechanism. Predrilled holes give a wide range of connection options. A standard Reset Latch is supplied. The Reset Latch locks the trip lever in the "run" position

until oil pressure is up to normal operating pressure, then the latch releases thus arming the device.

In normal condition, the 2800 is in open position and is being held open under the system pressure. When the system pressure drops below the factory set trip pressure of 0.7 bar (10 psi), the handle rotates 90° clockwise from its position in the open condition and closes the valve. In order to reopen the valve, the handle is moved to open the valve and the reset latch is engaged, which will hold the handle while the system is pressuring. The reset latch will be released when it reaches the reset latch release pressure of 1.8 bar (26 psi) and model 2800 will be open and working under the system pressure.

## Specification

<b>Housing:</b>	Aluminum Alloy Die Casting		
<b>Internals and leavers:</b>	Precision Steel Castings		
<b>Finish:</b>	Black anodized		
<b>Pressure connection:</b>	1/4" NPT or BSPL		
<b>Maximum pressure at inlet:</b>	11.7 bar		(170 psi)
<b>Tripping pressure adjustment range (falling pressure):</b>	0.35 to 2.8 bar		(5 to 40 psi)
<b>Factory set trip pressure:</b>	0.6 - 0.75 bar		(9-11 psi) (Field adjustable)
<b>Reset latch release pressure (max):</b>	1.8 bar		(26 psi)
	If factory set trip pressure is adjusted in the field, the reset latch will release within 1.17 bar (17 psi) above the field adjusted trip pressure.		
<b>Tripping force available:</b>	In run position at 65.4 cm (25.4 inch) radius	6.4 kgf	(14 lbf)
	In run position at 62 cm (24.4 inch) radius	3.2 kgf	(7 lbf)

## How to order

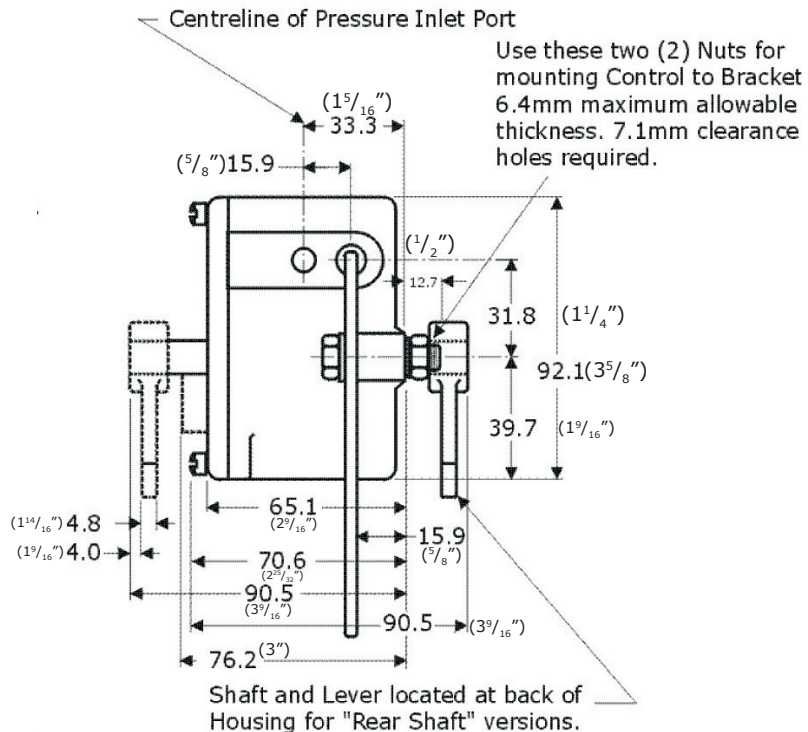
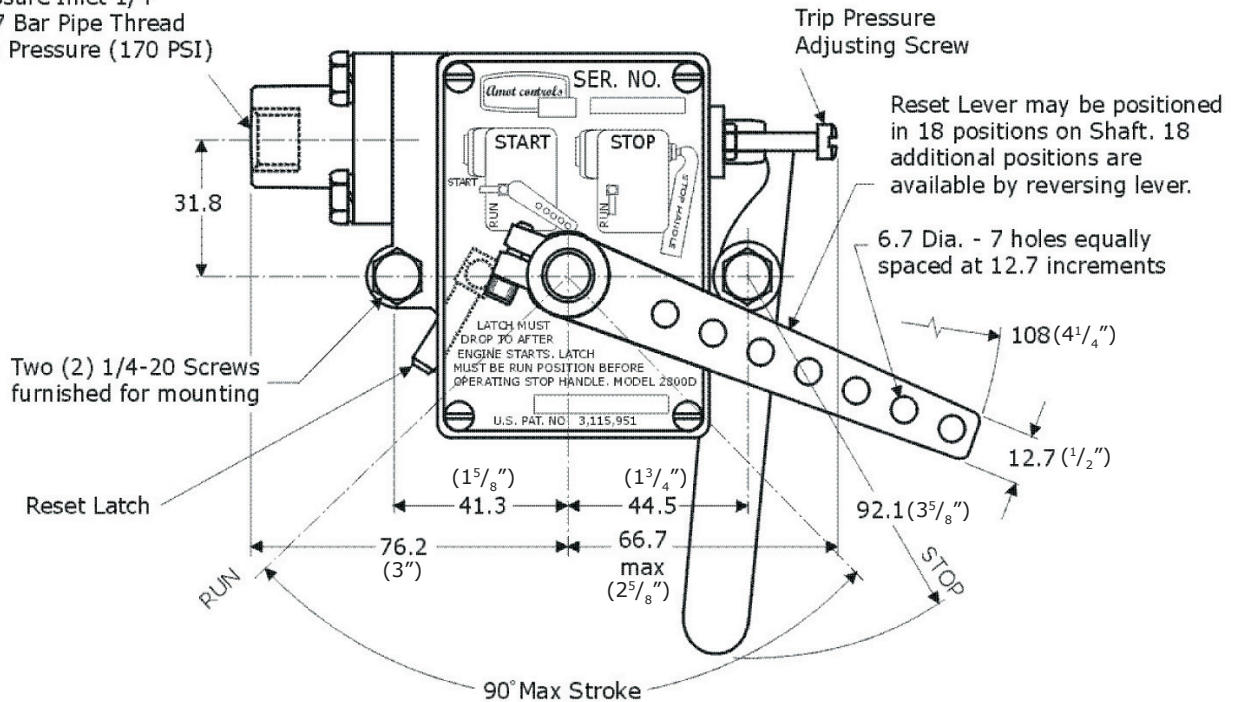
Example	2800D	4	1	2	Comments
					<b>Basic Model</b>
<b>Basic Model</b>	2800D				Basic Model Code
					<b>Style</b>
<b>Body Style</b>		0			Front shaft
		4			Rear shaft
					<b>Connection</b>
<b>Pressure Connection</b>		0			1/4" NPT
		1			1/4" BSP PL
		2			#6 Straight Thread SAE O-ring
					<b>Reset Latch</b>
<b>Reset Latch</b>			2		With Reset Latch

Use the table to select the unique specification of your 2800 Safety Shutdown Device.

# Safety Shutdown Device - 2800

## Dimensions

Pressure Inlet 1/4  
11.7 Bar Pipe Thread  
Max Pressure (170 PSI)



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