Crankcase Pressure Sensing Valve

Model 4126

Overview

AMOT Model 4126 detects the minor pressure surge that usually precedes a major crankcase explosion. It will detect the smallest pressure buildup caused by worn packing or by excessive blow-by caused by a piston and liner just beginning to scuff. This high sensitivity provides instant warning or shutdown before major damage occurs as the unit will not reset itself automatically.

Typical applications

 This model is a 2-Way valve for use primarily with AMOT Safety Control Systems

Key features and benefits

- Suitable for air, gas, or oil systems
- Adjustable range of 0.017 0.034 bar (0.25 - 0.50 psi)
- Higher range is available with use of auxiliary spring



Type 4126 Crankcase Pressure Sensing Valve



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Specification

Body material	Cast aluminum		
Internal parts	Plated steel and stainless steel		
Valve seals	Nitrile/Buna N		
Diaphragm material	Nitrile/Buna N		
Maximum sensed pressure (proof)	2.1 bar	(30 psi)	
Maximum valve pressure (port A)	8.6 bar	(125 psi)	
Net weight	1.7 kg	(3.75 lb)	
Shipped weight (appx.)	2.3 kg	(5 lb)	

Pressure ranges

Standard range	0.017 - 0.034 bar	0.25 - 0.50 psi		
With auxiliary spring	0.034 - 0.069 bar	0.50 - 1.0 psi		
Auxiliary spring is furnished loose with each unit				

Installation factors

The Pressure Sensing Port has a 2.54cm (1in.) female pipe tap. It is suggested that the unit be supported by means of a 2.54cm (1in.) pipe nipple from the engine crankcase door or frame. Install with the drain hole down and the pipe back to crankcase so any oil which collects in the diaphragm chamber will drain off. If the unit is

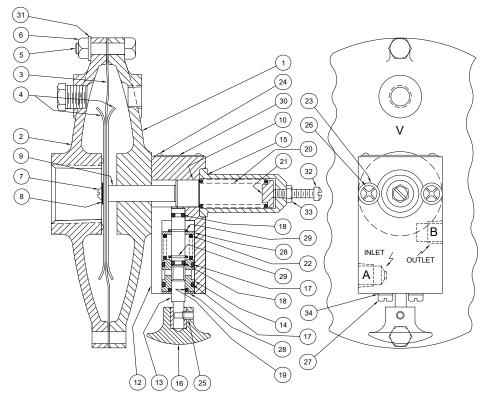
supported horizontally by a nipple and elbow with the pressure sensing port pointing down, plug the drain hole because excess oil will drain back down the supporting pipe. The control system pressure is connected to valve inlet port "A". When the unit trips, port "B" will vent. The unit is reset after tripping by pulling the Reset Knob.

How to order

Order this model simply by its model number – Model 4126A and specify whether seals are to be Buna N/Nitrile or Viton. Since it is shipped unset, it is not necessary to furnish any pressure setting with the order.

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Service kits



Ref no.	Qty	Description	
1	1	Body assembly	
2	1	Diaphragm cover	
3	1	Diaphragm cover	
4	2	Diaphragm plate	
5	6	Capscrew	
6		Nut	
7	1	Machine screw	
8	1	Thread seal	
9	1	Pushrod	
10	1	Piston	
12	1	Body	
13	1	Stern	
14	1	Spool	
15	1	Spring housing	
16	1	Knob	
17	1	O-ring	
18	2	O-ring	

Ref no.	Qty	Description
19	1	O-ring
20	see table	Main spring
21	1	Adjustment spring guild
22	1	Return spring
23	2	Washer
24	7	Drive screw
25	1	Set screw
26	2	Machine screw
27	2	Machine screw
28	2	Washer (special)
29	2	Retaining ring
30	1	Nameplate
31	6	Lockwasher
32	1	Adjusting screw 491L002
33	1	Lock nut (for adj. screw)
34	2	Lockwasher

Compression Spring

Qty	Part No.	Pressure range	Remarks
1	6612L030	0.25 to 0.5 psi	Light - installed, Heavy - shipped loose
2	6612L023	0.5 t0 1.0 psi	Wire to valve

Datasheet_4126_Crankcase_Press_Sens_Valve_0112_Rev2

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🔔 WARNING

This product can expose you to chemicals including Lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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