

Exhaust Gas Temperature Valve

Model 4087

Overview

This 2-Way valve is closed in the operating or "satisfied" condition, and trips open when the set temperature is exceeded.

Typical applications

- For use principally as an exhaust gas temperature sensor

Key features and benefits

- Reliable protection
- Long life
- Temperature ranges 150°C to 760°C (300°F to 1400°F)
- Viton seals
- Stainless steel well
- Manual or pneumatic reset
- Ease of maintenance



Type 4087
Exhaust Gas Temperature Valve

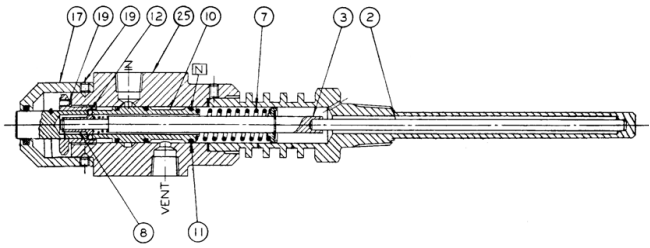


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Operation

Actuation of the valve is caused by increasing temperature expanding the stainless steel well at a rate faster than that of Rod (2). Pushrod (3) moves toward the well, permitting

the two Balls (12) to slip into a groove between Upper Piston (10) and Trip Plunger (8). This releases the piston which is spring loaded by Main Spring (7). The piston moves upward permitting the middle O-ring seal to move past the IN Port, connecting IN to VENT. Re-setting of the valve is accomplished by firmly depressing the top of Piston (10) after the well has been permitted to cool back down below the trip point.



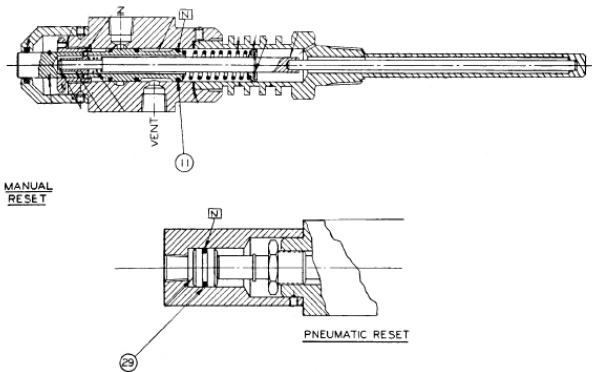
Specification

Maximum pressure at IN port		8.6 bar	(125 psi)
Maximum pressure outside well		*68.9 bar	(*1000 psi)
Pneumatic reset	Minimum reset pressure	2.75 bar	(40 psi)
	Maximum pressure	10.3 bar	(150 psi)
Maximum valve body temperature		200°C	(400°F)
Valve body & spool	Aluminum		
O-ring seals	Viton		
Well material	347 Stainless steel		
Net weight		0.9 kg	(2 lb)
Shipping weight (appx.)		3.0 kg	(6.5 lb)

*Pressure shown is maximum allowable. To obtain working pressure, factors of safety should be applied as required by appropriate codes or regulations. In certain adverse conditions, a corrosion or erosion allowance should also be made.

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Maintenance and service kits



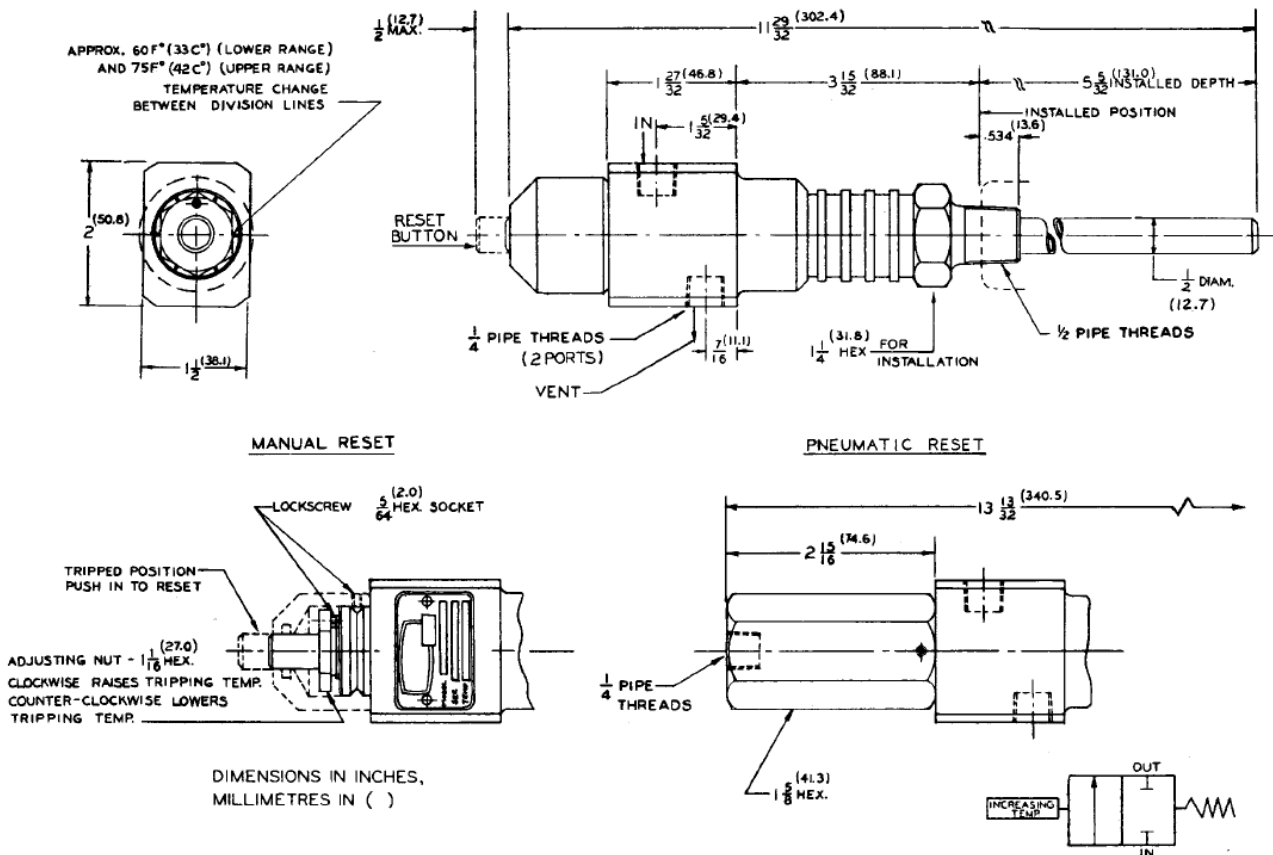
AMOT Model 4087 Temperature Valves require practically no maintenance. Should any parts need to be replaced, the valve is easily disassembled by referring to the assembly drawing below. When servicing O-rings (11) or (29), lubricate lightly with the high temperature grease shown below. DO NOT FILL THE WELL WITH ANY TYPE OF HEAT TRANSFER COMPOUND.

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 number only, please also include the datasheet reference at the bottom of this brochure.

Service kits

Ref no.	Part no.	Qty	Description
11	625	3	O-ring, Viton
29	257L001	1	O-ring, Viton
N	866L001	A/R	Grease, high temperature

Dimensions



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How to order

Use the table below to select the unique specification of your 4087 Exhaust Gas Temperature Valve:

Example	4087B	03	1	-AA	Comments		
					Body material		
Basic Model	4087B				Aluminum body		
					Thread	Finish	Temp. Range
Threads Finish and Temperature Range		02			NPT	Gulfproofed	150 to 540°C (300 to 1000°F)
		03			BSP(Tr)	Standard	
		04			BSP(Tr)	Gulfproofed	
		06			NPT	Gulfproofed	540 to 760°C (1001 to 1400°F)
		07			BSP(Tr)	Standard	
		08			BSP(Tr)	Gulfproofed	
					Reset type		
Reset			0		Manual		
			1		Pneumatic		
Special Requirements				-AA	Standard		
				**	Special Requirements		

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