# 3-Way Temperature Control Valve

# Model G, Version G and Accessories

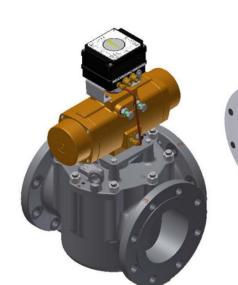
### **Typical applications**

# For engines, turbines, gearboxes and heat exchangers:

- Charge air cooling
- Secondary cooling systems
- Fuel and lube oil preheating
- Co-generation
- Engine jacket water

#### For refineries, chemical plants and oil reproduction:

- Waste heat boilers
- Product coolers
- Product heaters
- Product condensers





Electric GG valve

Pneumatic GG valve



amot.com

### **Key benefits**

- Ease of integration valve size matches pipe size, resulting in reduced installation time and installation costs
- Flexible design ports can be configured to suit installation
- Low pressure drop compared to other valve types
- Small physical size
- Hand wheel allows manual adjustment of valve (optional on pneumatic valve) - simplified set up and maintenance

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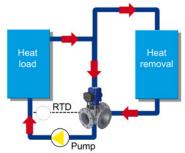
### Overview

AMOT G valves are 3-way control valves consisting of a heavy duty rotary valve and either a quarter turn electric or pneumatic actuator. The valves provide a high degree of accuracy and repeatability for accurate temperature control and are equally accurate in mixing or diverting service over a wide flow range.

The heavy duty rotor design provides tight temperature control without high maintenance requirements. The system is available in three standard control configurations: electric; pneumatic; and electro-pneumatic, offering flexibility for most requirements. Designed

# Applications

#### **Mixing Applications**



Lubricating oil temperature control is normally configured in a mixing application controlling the return temperature to the heat load. The temperature is normally measured as close as possible to the sump return.

for high vibration service, the AMOT G valves

to reciprocating machinery, such as diesel

vibration resistance.

ammonia or freon in oil.

are gualified to Lloyd's Marine Requirements for

engines, without vibration isolation. The heavy

The standard valves are suitable for a variety

lubricating and hydraulic oils. Optional body

materials are available for services involving

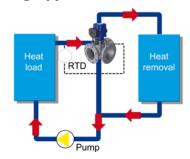
of fluids such as water, water/glycol, sea water,

synthetic or fire resistant oils, deionized water and

duty actuators are specially reinforced to provide

shipboard service. Valves can be directly mounted

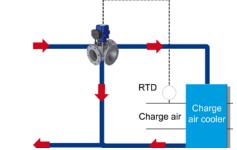
**Diverting Applications** 



Jacket water cooling in diverting applications regulates the outlet coolant water temperature from a diesel or gas engine. The valve either sends water to a cooler or bypass loop, accurately maintaining the temperature.

The temperature is normally measured at the outlet from the heat source.

**Charge Air Temperature Control** 



The intercooler is used to cool high temperature turbo charger air.

In this application the G Valve regulates the flow of cooling water through an intercooler, increasing efficiency, enhancing performance and helping to meet today's environmental requirements.

# System Types

#### **Electric Valve**



For the electric valve, the actuator of the G valve assembly uses an electric motor which rotates in either direction in response to the ON-OFF signals received. The motor drives a gearbox connected to the rotor shaft and turns the valve rotor clockwise or counter-clockwise, a maximum of 90 degrees. At the end of travel, limit switches are incorporated to isolate the electrical supply to the motor when the valve rotor has reached either end of the rotation. A feedback hall sensor is standard and provides position indication to the control system.

The electric actuator is a rugged, compact and lightweight quarter turn actuator having enclosure protection to IP65.

The actuator is powered by an electric motor driving a worm-type gearbox. The worm gearbox prevents reverse drive due to fluid forces. It is fitted with manual override as standard, enabling valve operation without power.

A thermal cutout is fitted preventing overheating. Limit switches at each end of stroke disconnect motor power when end stroke is reached. These can also be used for remote indication.

See page 15 for more information on the electric actuator.

#### **Electric System**





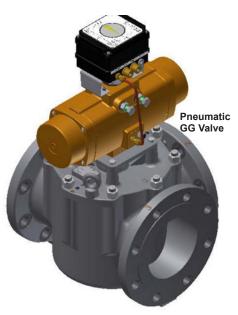
Temperature Probe 8060 PID Controller 8071/2D, IP67 enclosure GG Valve

The electric valve system incorporates the use of an electrically actuated three-way control valve with an electronic controller. The 8071D PID Controller can be either panel or wall mounted (see page 18 for more information). The system is completed with a temperature sensor type 8060 (see page 18 for details).

The electric G Valve system is simple to install with standard four core cable, and provides more accurate measurement and control than typical pneumatically operated systems.

# System Types continued

#### **Pneumatic Valve**

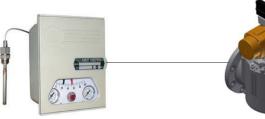


The pneumatic valve uses a spring return pneumatic actuator and positioner to control the rotation of the valve in response to an input signal from a pneumatic or electro-pneumatic control system. The pneumatic control system sends a pneumatic signal ranging from 0.21 to 1.03 bar (3 to 15 psi) to the actuator to correctly position the valve at the desired temperature setting. The pneumatic control system usually consists of a P+I pneumatic controller, sensor and the necessary air supply conditioning equipment (regulators, filters and water traps).

The pneumatic actuator is a rugged, quarter turn, double piston actuator operating on a scotch yoke principle.

The actuator is fitted with spring return as standard allowing fail-safe configuration if necessary. It is also fitted with a valve positioner enabling accurate and repeatable movement. See page 16 for more information on the pneumatic actuator.

#### **Pneumatic System**



SG80 Temperature Controller and Sensor



GG Valve

The pneumatic valve system incorporates a pneumatically actuated three-way control valve with controller and integral temperature sensor, the SG80, which can be panel or wall mounted. For more information on the SG80, see page 20. The pneumatic G valve system is ideal when there is a lack of electricity or when a fail-safe system is needed.

#### **Electro-Pneumatic System**



The electro-pneumatic valve system combines both electric and pneumatic technology, consisting of a pneumatically actuated three-way control valve with an electro-pneumatic converter, type 8064A. See page 19 for more details.

The probe sends a resistance signal to the electronic controller, which in turn sends a 4 to 20mA signal to an I/P converter that converts this to a pneumatic signal.

The electro-pneumatic system combines the features and functionality of the AMOT electronic control system with the fail-safe action benefits of a pneumatically actuated valve.

## Overview of Valve Body



Valve Body

# Specification

#### **Key features and benefits**

- Lightweight and compact
- Configurable ports allowing flexibility on installation
- Low pressure drop enables savings on either valve or pump size
- High accuracy providing better temperature control

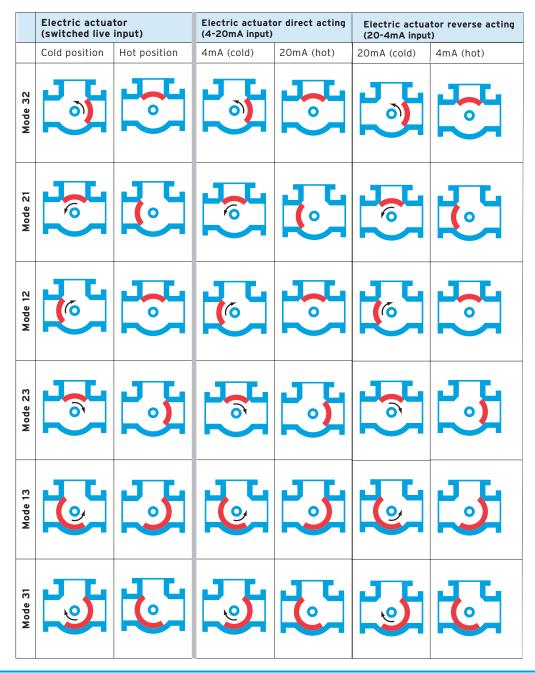
Flow to:	720m³/hr	3,170 US gpm								
	For valves with higher flow rates see d	atasheet GEF_GPD_Temp_Control_Valve								
Sizes:	Standard flow	High flow								
	80mm - 250mm (3" - 10") For 250 mm (10") high flow and above	80mm - 200mm (2" - 8") e see Datasheet GEF_GPD_Temp_Control_Valve								
Body material:	Ductile iron	High performance iron, for fresh water, lubricating oils								
Seal material:	Flourocarbon (Viton, FKM)									
Flanges:	EN 1092, ASME and JIS standards.									
Maximum internal valve pressure:	10 bar	(145 psi)								
Maximum temperature of fluid:	100°C	(212°F)								
Vibration:	Exceeds the requirements of Lloyd's Register Type Approval System, Test Specification Number 1, 2002, Vibration Test 2. For both electric and pneumatic:									

Frequency range	Displacement	Acceleration	Lloyd's
5 - 25 Hz	+/- 1.6mm		+/- 1.6mm
25 - 100 Hz		+/- 5.0g (49 m/s <sup>2</sup> )	+/- 4.0g (39 m/s <sup>2</sup> )
100 - 300 Hz		+/- 1.0g (9.81 m/s <sup>2</sup> ) 90 minute	No requirement

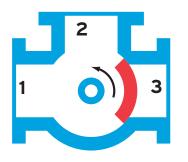
# Modes of Operation - Electrically Actuated



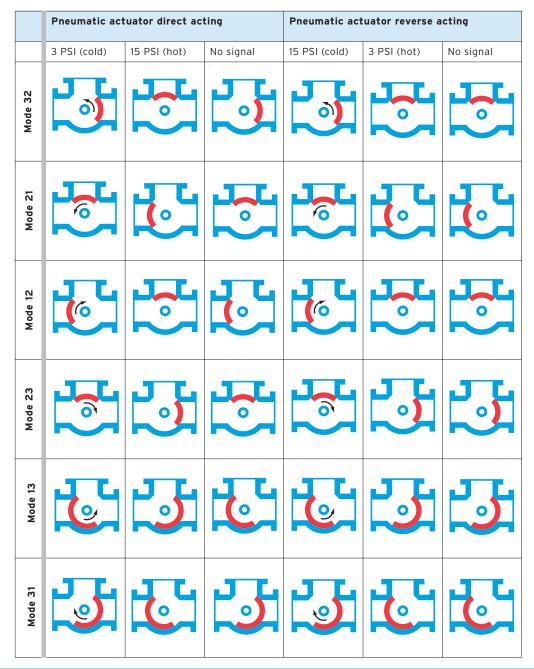
The unique construction of the AMOT G valve provides total flexibility by allowing you to select the valve port positions most ideally suited to meet your application requirements. There are two main types of mode of operation: 90° rotor that allows either ports 1 or 3 to be selected as the common port; and 180° rotor that requires port 2 to be the common port. Arrow indicates valve movement with increasing temperature or mA, as viewed from above (see diagram). For electrically actuated valves, on loss of signal the actuator is set up by default to stop in its current position.



# Modes of Operation - Pneumatically Actuated

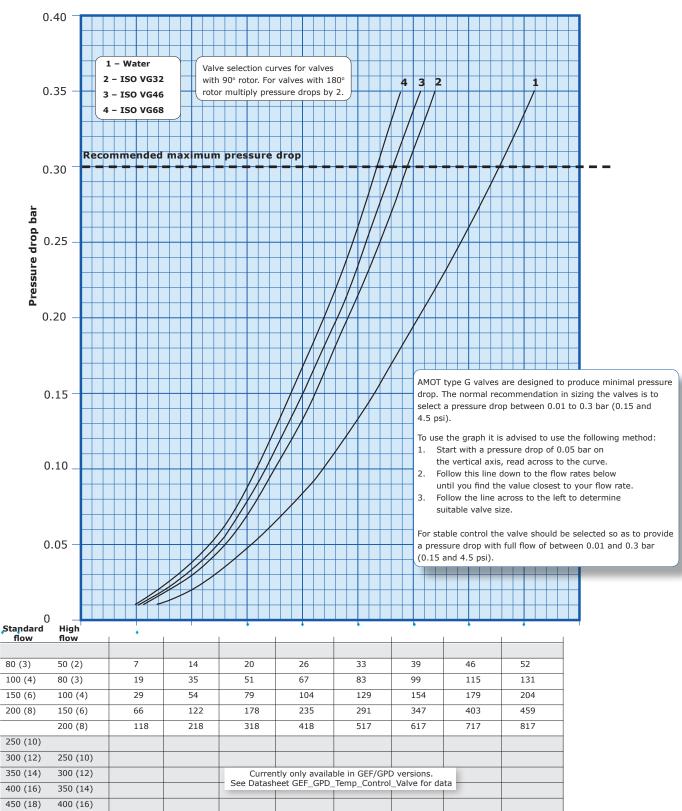


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# Valve Sizing (Metric units)

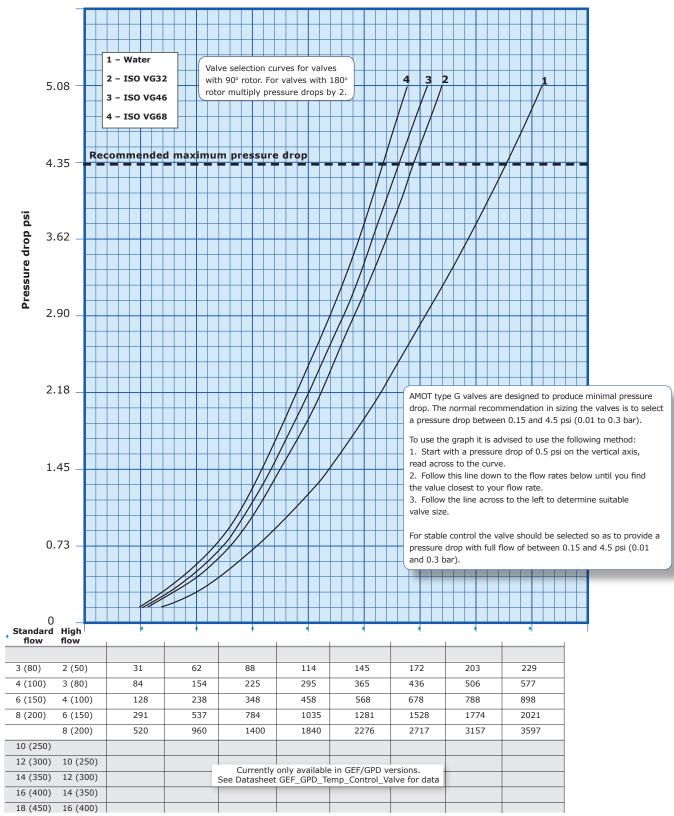
### Valve Flowrate Selection (Flowrate m<sup>3</sup>/hr)



Size DN (inches)

# Valve Sizing (English units)

### Valve Flowrate Selection (Flowrate USg/m)



Size inches (DN)

### Valve Sizing

### **Viscosity Correction**

#### Example:

From the graph below:

100 cSt = correction factor of 0.68

0.68 x flow coefficient = corrected flow coefficient (Kv or Cv)

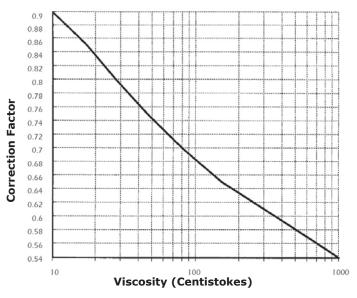
Some approximate viscosities (cSt) of SAE oils at 40°C (110°F) are shown below, based on leading oil manufacturers published data.

For the selection of valves for more viscous fluids than water, the following must be calculated:

Viscosity: Find the viscosity of the fluid in which the valve is to operate. The viscosity is normally expressed in centistokes. Where ISO oil is used, the grade number is also the viscosity eg ISO VG46 is 46 centistokes at 40°C (104°F).

Viscosity correction: By using the correction graph below, the flow coefficient correction factor can be established. The correction figure obtained from the graph should then be multiplied by the original flow coefficient which can then be used in the standard valve sizing formulae.

### Viscosity Correction Curve (Fv)



Some approximate viscosities (cSt) of SAE oils at 40°C (104°F) are shown below, based on leading oil manufacturers' published data.

#### **SAE Oil Viscosities**

Engine	e oils	
Oil	cSt	
SAE 5W	6.8	S
SAE 10W	32	S
SAE 20	46	S
SAE 20W	68	S
SAE 30	100	S
SAE 40	150	
SAE 50	220	

Gear	oils
Oil	cSt
SAE 75W	22
SAE 80W	46
SAE 85W	100
SAE 90	150
SAE 140	460

### Valve Sizing

### **Valve Sizing Calculations**

#### **Valve Flowrate**

See the table below for examples of Kv and Cv:

Size DN	Standard flow		80 (3)	100 (4)	150 (6)	200 (8)		250 (10)	300 (12)	350 (14)	400 (16)	450 (18)
(in)	High flow	50 (2)		80 (3)	100 (4)	150 (6)	200 (8)		250 (10)	300 (12)	350 (14)	400 (16)
Kv			82	207	323	729	1296					
Cv			96	242	378	851	1513					

Currently only available in GEF/GPD versions. See Datasheet GEF\_GPD\_Temp\_Control\_Valve for data

#### Pressure Drop

The G valve is designed to produce minimal pressure drop. The normal recommendation when determining the size of an AMOT G valve is a pressure drop between 0.01 and 0.3 bar (1.5 and 4.5 psi). **Note:** Kv and Cv values are applicable to 90° rotor versions only.

Kv is the flow coefficient in metric units. It is defined as the flow rate in cubic meters per hour ( $m^3/h$ ) of water at a temperature of 16° celsius with a pressure drop across the valve of 1 bar. Cv is the imperial coefficient. It is defined as the flow rate in US Gallons per minute [gpm] of water at a temperature of 60° fahrenheit with a pressure drop across the valve of 1 psi. (Kv = 0.865 Cv / Cv = 1.156 Kv)

The basic formula to determine the Kv of a valve is:

$$Kv = Q \sqrt{\frac{SG}{Dp}}$$

Q = Flow (m<sup>3</sup>/h) Dp = Pressure drop (bar) SG = Specific gravity of fluid Kv = Valve flow coefficient

There are two other ways that this formula can be used to find the flow in  $m^3/h$  or pressure drop of a valve in bar:

$$Q = Kv \sqrt{\frac{Dp}{SG}}$$
  $Dp = \left[\frac{Q}{Kv}\right]^2 SG$ 

The basic formula to determine the Cv of a valve is:

 $Cv = Q \sqrt{\frac{SG}{Dp}}$ 

Q = Flow (US gallons/min) Dp = Pressure drop (psi) SG = Specific gravity of fluid Cv = Valve flow coefficient

There are two other ways that this formula can be used to find the flow in US gallons/minute or pressure drop of a valve in PSI:  $\Box = 2^2$ 

$$Q = Cv \sqrt{\frac{Dp}{SG}}$$

$$\mathsf{Dp} = \left[\frac{\mathsf{Q}}{\mathsf{C}\mathsf{V}}\right]^2 \mathsf{S}\mathsf{G}$$

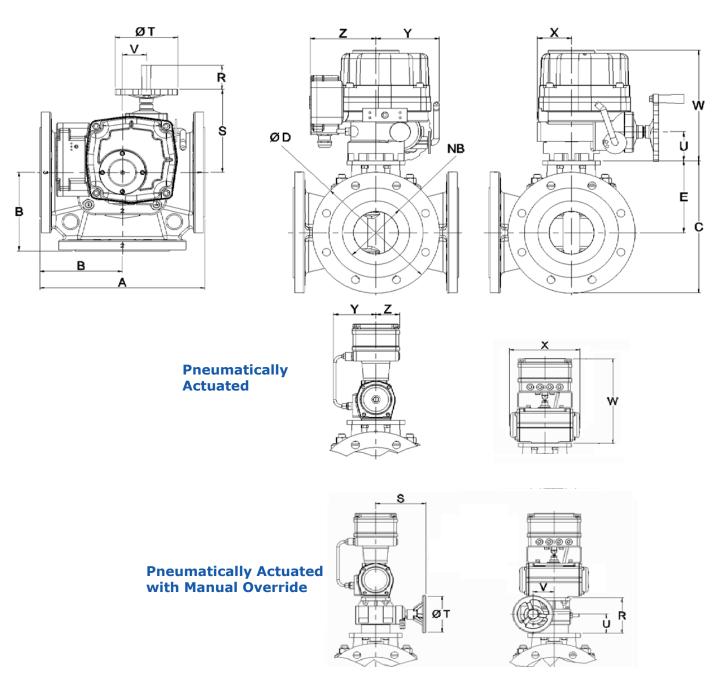
### **Valve Bypass Flowrates**

The AMOT G Valve is not a tight shutoff valve. When used in a reasonably balanced pressure system there will be some small amounts of leakage between ports. The actual amount of leakage will vary with the pressure difference between these ports. Consult AMOT for further information if the application is sensitive to leakage rates or if high pressure differences are likely to occur.

# 3-Way Temperature Control Valve - Model G, Version G

### Dimensions

#### **Electrically Actuated with Manual Override**



# See page 14 for dimensions

### **Dimensions continued**

#### **Dimensions in mm**

Valve Type			Valve	Body						Elec	trically	Actuat	ed					Ρ	neuma	tically	Actuate	d			Valve Type
valve Type	NB	Α	в	С	D	Е	R	s	т	U	v	w	х	Y	z	R*	S*	T*	U*	V*	w	х	Y	z	valve Type
03GGS	80	280	140	207	200	107																			03GGS
03GGH	00	200	140	227	200	127																			03GGH
04GGS	100	300	150	242	229	128										95	123	100	52	52	245	192	95	53	04GGS
04GGH	100	300	150	281	224	169																			04GGH
06GGS	150	270	185	312	285	169		195			54	260	76	142	147										06GGS
06GGH	150	370	601	346	285	191	65		140	68						100									06GGH
08GGS	200	450	225	371	343	191	65		140	00							155	200	45	79	297	362	115	53	08GGS
08GGH	200	450	225	418	340	253										113	155	200	40	79	297	302	115	55	08GGH
10GGS	250	520	260	455	406	253																			10GGS
10GGH	250	520	200	521	405	292																			10GGH
12GGS	300	600	300	533	483	292		221			70	290	82	160	157	236	298	400	156	132	363	477	149	53	12GGS
12GGH	300	000	300	631	463	346																			12GGH

#### **Dimensions in inches**

Valve Type			Valve	Body						Elec	trically	Actuat	ed			Pneumatically Actuated									Valve Type
valve Type	NB	Α	в	с	D	Е	R	s	т	U	v	w	х	Y	z	R*	S*	T*	U*	V*	w	х	Y	z	valve Type
03GGS	3.0	11.0	5.5	8.2	7.9	4.2																			03GGS
03GGH	5.0	11.0	5.5	8.9	7.9	5.0																			03GGH
04GGS	4.0	11.8	5.9	9.5	9.0	5.0										3.74	4.84	3.94	2.05	2.05	9.65	7.56	3.74	2.09	04GGS
04GGH	4.0	11.0	5.8	11.1	8.8	6.7																			04GGH
06GGS	6.0	14.6	7.3	12.3	11.2	6.7		7.68			2.13	10.24	2.99	5.59	5.79										06GGS
06GGH	0.0	14.0	7.5	13.6	11.2	7.5	2.56		5.51	2.68						3.94									06GGH
08GGS	8.0	17.7	8.9	14.6	13.5	7.5	2.50		5.51	2.00							6.10	7.87	1.77	3.11	11.69	14.25	4.53	2.09	08GGS
08GGH	0.0	17.7	0.9	16.5	13.4	10.0										4.45	0.10	1.01	1.77	3.11	11.09	14.25	4.00	2.09	08GGH
10GGS	10.0	20.4	10.2	17.9	16.0	10.0																			10GGS
10GGH				20.5	15.9	11.5																			10GGH
12GGS	12.0	23.6	11.8	21.0	19.0	11.5		8.70			2.76	11.42	3.23	6.30	6.18	9.29	11.73	15.75	6.14	5.20	14.29	18.78	5.87	2.09	12GGS
12GGH				24.8	19.0	13.6																			12GGH

\* Relevant only to pneumatic actuator with manual override version

Bolthole dimensions are as per the relevant specification chosen in the model coding. Full dimensional details can be provided on request.

### Overview of Electric Actuation



#### **Key features and benefits**

- Self-locking with minimum backlash in the transmission - prevents valve movement due to flow
- Auxiliary limit switches for user connection
- Manual override fitted as standard valve can be operated in event of power failure
- Two torque switches provide protection in event of actuator overloading

# Specification

Power		115V ± 10% or 230V	± 10%	50/60Hz sing	jle phase							
Limit switches		Two open/close SPDT		250V AC, 10	A							
Motor thermal prot	ection	Fitted as standard	Fitted as standard									
Angular rotation		110° max		Quarter turn								
Position sensor		Contactless half effect	:									
Cable entry		2 x M25 x 1.5		IP68 glands j	provided							
Mechanical stop		Two adjustable screws	5									
Manual override		Fitted as standard										
Materials		Steel, aluminum alloy, aluminum bronze, polycarbonate										
External coating		Dry powder polyester										
Weatherproof enclo	osure	IP67, NEMA 4 and 6										
Ambient temperatu	re	-20°C to +85°C		(-4°F to +18	5°F)							
Ambient humidity		90% RH max (non-condensing)										
Anti-condensation	heater	7 - 10W										
Vibration resistance	е	5 - 100 Hz		5g								
		100 - 300 Hz		1g								
Performance		Duty cycle 20°C	Stroke ti	ime (secs)	Max cur	rrent (A)						
Standard High 1	low		50 Hz	60 Hz	220V	110V						
50		Currently only available in GE	F/GPD versions.	See Datasheet GEF	_GPD_Temp_Cont	rol_Valve for data						
80 - 200 80 - 2	00	65%	25	21	0.88	1.7						
250 - 450 250 -	400	Currently only available in GEF/GPD versions. See Datasheet GEF_GPD_Temp_Control_Valve for data										

# **Electronic Positioner**



**Electronic Positioner** 

The AMOT actuator/valve positioner is configured to accept an industry standard 4-20mA position demand input signal, and uses this to operate internal solid state switching to drive the motor.

The microprocessor based unit uses the signal from the contactless position sensor to accurately position the actuator, taking into account motor response time and actuator overshoot.

The positioner is split into two parts, housed in the terminal box. There is a power module, in which all high voltage circuits are fully encapsulated to withstand high vibration, and a control board. This design allows for easy maintenance.

There are three LEDs on the terminal box on the side of the actuator, providing clear visual indication of actuator status. Two alarm outputs allow for remote fault monitoring.

User configuration allows:

- The input can be selected from 4-20mA, 0-20mA, 0-5V, 0-10V and 2-10V by switches.
- 4-20mA output, which shows actual valve position, can be configured to retransmit the demand input signal.
- A switch allows for easy configuration of which end of stroke corresponds with a 4mA demand.
- The action on sensor fail can be selected from moving to either the 4mA or the 20mA positions, but is factory set to not moving.
- The deadband can be increased to aid performance with noisy input signals.
- When necessary, such as after maintenance, the actuator can be recalibrated at the touch of a button.

# **Overview of Pneumatic Actuation**



### Key features and benefits

- A rugged quarter turn, double piston, rack and pinion pneumatic actuator with spring return and valve positioner as standard.
- Can be configured fail-safe

# Specification

Housing	Cast aluminum base, stee	l cover and two part Polyurethane paint finish.
Supply pressure	6 to 8 bar	(90 to 115 psi)
Signal pressure	0.21 to 1.03 bar	(3 to 15 psi)
Pressure connections	G 1/4	(1/4 NPT)
Manual override	Optional	

# How to Order

Use the table below to select the unique specification of your G valve:

Exar	mple Code	06GG	S	D	В	S	32	EA	В	CA	-AA	Code Description								
												Nominal Bore Size		Comments						
		02GG										2 Inch (DN50)		High Flow Only						
	Valve	03GG										3 Inch (DN80)								
	Size &	04GG										4 Inch (DN100)								
	Model	05GG										5 Inch (DN 125)		Standard Flow only						
	Model	06GG										6 Inch (DN150)								
		08GG										8 Inch (DN200)								
		10GG										10 Inch (DN250)		Standard Flow only						
	Valve Fl	214/										Valve Flow Type								
	Туре		S									Standard Flow Valve								
_	туре		Н									High Flow Valve								
uo	Valve Bo	dv										Body Material								
Selection	valve bu	Juy		D								Ductile Iron								
e												Flange Class	Flange Standard	Flat / Raised Face						
Š					Α							PN6	EN 1092	Raised						
≥	Valve Fla				В							PN10	EN 1092	Raised						
Valve Body	Connect		ndar	Ч	С							PN16	EN 1092	Raised						
8	and Clas		ual	u	F							125 lb (Flat Face)	ASME	Flat						
ž	and clas	5			J							150 lb	ASME	Raised						
/al					L							10K	JIS	Flat						
-					М							5K	JIS	Flat						
	Deter Tu	-										Rotor Type								
	Rotor Type S											Standard Rotor								
									Rotor Po	Rotation Starting From										
										Cold Process	Hot Process	Cold Position								
			12					Port 1	Port 2											
			23					Port 2	Port 3	Clockwise										
	Valve Mo			31					Port 3	Port 1										
							21					Port 2	Port 1							
																		Port 3	Port 2	Anticlockwise
							13					Port 1	Port 3							
												Power Supply	Air Connection	Manual override						
	Valve Ac	tuation	Tve	<b>_</b>			lec	EA				100 -120 Vac 50/60Hz	-	Fitted as Standard						
	Electric						Ξ	EB				200 - 240 Vac 50/60Hz	-	Filled as Standard						
					Supp	iy		P1				-	G1/4 (1/4" BSPP)	Not Fitted						
	Pneuma						Pneu	P2				-	1/4" NPT	Not Fitted						
~	Connect	ions & I	Manu	ial ov	/erri	de	Ъ	P3				-	G1/4 (1/4" BSPP)	Fitted						
<u>.</u>								P4				-	1/4" NPT	Filled						
Actuator Selection												Input Signal	Comments							
ele								0	Α			Relays, Switched Live Su	pply							
Ň	Actuator	Contra	J T	+ .	lars			Elec	В			4-20mA								
P	Actuator	Contro	n rut	put 5	iyna	•		ш	С			20-4mA	On Increasing Terrar	atura						
at								Je	1			3-15psi	On Increasing Temper	ature						
1,								Pne	2			15-3psi								
¥												Feedback Signal								
									0				Not applicable for Actu	ator Control Input Signal						
	Actuator Feedback Signal							Electric	AA		None	codes B or C	· -							
									ect	CA		4-20mA Position Retrans								
									Ē	EA		20-4mA Position Retrans								
									Dest			None	mine							
									Pne	00		NUTE								
	Custow				~						A A	Standard Broduct								
	Customer Special Options										-AA									
											-***	Customer Special Code A	ASSIGNED							

### Accessories

# PID Valve Controllers 8071/8072D and Solid State Relays 47581L001





PID Controller 8072D

Solid State P Relay 47581L001

PID Controller 8071D

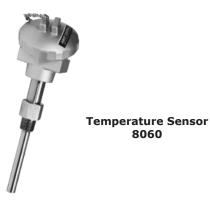
#### **Key features and benefits**

- Fully programmable PID-based control

   allows easy system configuration
- Universal inputs; RTD's, thermocouple, or standard 4-20mA signal gives maximum system design flexibility
- Can be operated in manual mode easy maintenance and set up

For further information and how to order these products see Datasheet\_8071\_2\_D\_47851.pdf

### 3-Wire PT100 Temperature Sensor - 8060



### Key features and benefits

- 3 wire RTDs accurate temperature measurement
- Excellent long term stability
- Good linearity
- Can use standard 3-core cable

For further information and how to order this product see Datasheet\_8060\_temp\_sensor.pdf

### Accessories

### Solid State Relay Module - 8073C



8073C

#### **Typical Applications**



Interface with 8071D controller

### **Key features and benefits**

- IP67 enclosure
- Alternative to using two SSRs type 47581L001
- Good linearity
- Can use standard 3-core cable

The 8073C relay module incorporates two solid state relays with terminations in an IP67 enclosure. The 8073C is designed to be used with the 8071D controller logic outputs to drive voltages for the electrically actuated G valve. Features include: zerocrossing switching, relay and logic level inputs and IP67 enclosure.



110/240 Vac Interface with AC input signals

For further information and how to order this product see Datasheet\_8073C\_SSR.pdf

### Electro-Pneumatic Converter - 8064A



**Electro-Pneumatic** Converter - 8064A

### **Key features and benefits**

- High vibration resistance Lloyds 4G
- Suitable for longer pipe runs
- Fully adjustable for optimised system operation
- ATEX hazardous area certification





Temperature Temperature Probe 8060

Controller 8071D

Electro-Pneumatic G Valve Converter 8064A

For further information and how to order this product see Datasheet\_8064A\_C\_ elect\_pneu\_converter.pdf

### Accessories

### **Electro-Pneumatic Converter - 8064C**

#### **Typical Application**



Electro-Pneumatic Converter - 8064C

#### Electro-pneumatic system

controller

8071D



Temperature 7 probe 8060 e Electro-pneumatic converter 8064C

### Pneumatic Indicator Controller - SG80



Pneumatic Indicator Controller SG80

#### **Typical Application**





SG80 Temperature Controller and Sensor G Valve

### Key features and benefits

- Accepts high supply pressure avoids use of additional regulator
- Factory set for ease of installation
- Low cost alternative to 8064A
- ATEX hazardous area certification

For further information and how to order this product see Datasheet\_8064A\_C\_elect\_ pneu\_converter.pdf

### Key features and benefits

- Complete stand alone controller, no other control components required - reduced system cost
- Easily removable components low maintenance
- Good dynamic response gives optimum engine performance
- Compatible with every type of pneumatic valve - flexible

For further information and how to order this product see Datasheet\_SG80\_Pneu\_Ind\_ Controller.pdf

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