# 3-Way Temperature Control Valve

## Model G, Version G and Accessories

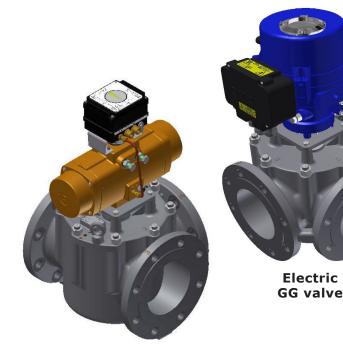
### **Typical applications**

# 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



Pneumatic GG valve



amot

### **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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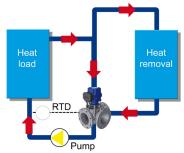
### Overview

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**

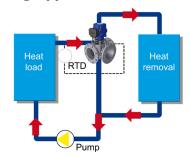


for high vibration service, the AMOT G valves are qualified to Lloyd's Marine Requirements for shipboard service. Valves can be directly mounted to reciprocating machinery, such as diesel engines, without vibration isolation. The heavy duty actuators are specially reinforced to provide vibration resistance.

The standard valves are suitable for a variety of fluids such as water, water/glycol, sea water, lubricating and hydraulic oils. Optional body materials are available for services involving synthetic or fire resistant oils, deionized water and ammonia or freon in oil.

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.

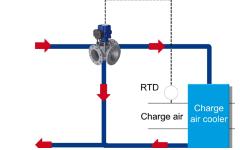
#### **Diverting Applications**



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.

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

## 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 IP67.

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

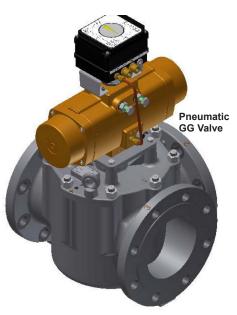
GG Valve

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



**Specification** 

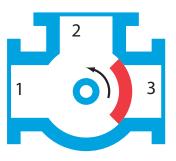
#### **Key features and benefits**

- 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

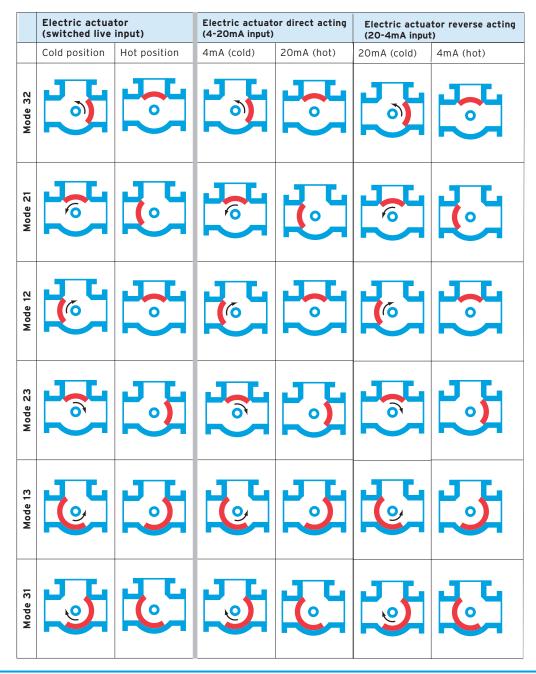
Flow to:	720m <sup>3</sup> /hr 3,170 US gpm For valves with higher flow rates see datasheet GEF_GPD_Temp_Control_Valve								
Sizes:	Standard flow	High flow							
	80mm - 200mm (3" - 8") For 250 mm (10") and above see Data	80mm - 200mm (2" - 8") sheet GEF_GPD_Temp_Control_Valve							
Body material:	Ductile iron	High performance iron, for fresh water, lubricating oils							
Seal material:									
Flanges:	EN 1092, ASME and JIS standards.								
Maximum internal valve pressure:	10 bar	(145 psi)							
Maximum temperature of fluid:	100°C	(212°F)							
Vibration:	yd's Register Type Approval System, 02, Vibration Test 2.								

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				

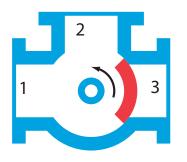
## Modes of Operation - Electrically Actuated



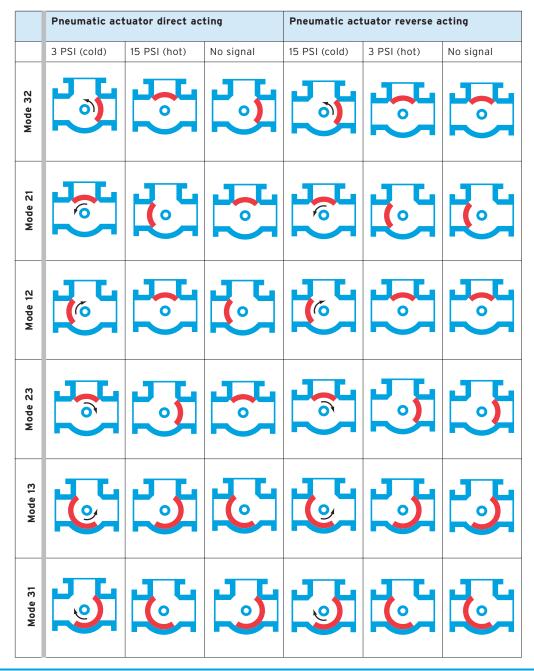
The unique construction of the AMOT G valve provides total flexibility by allowing you to select the valve port positions most ideally suited to meet your application requirements. There are two main types of mode of operation: 90° rotor that allows either ports 1 or 3 to be selected as the common port; 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

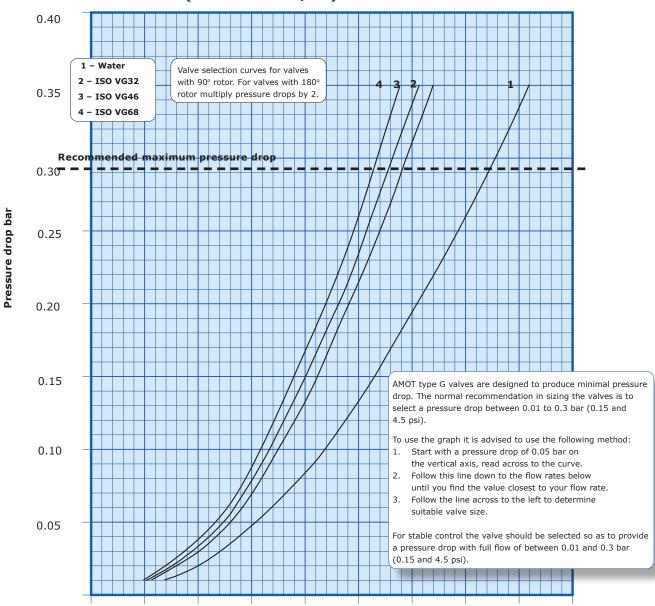


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## Valve Sizing (Metric units)

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

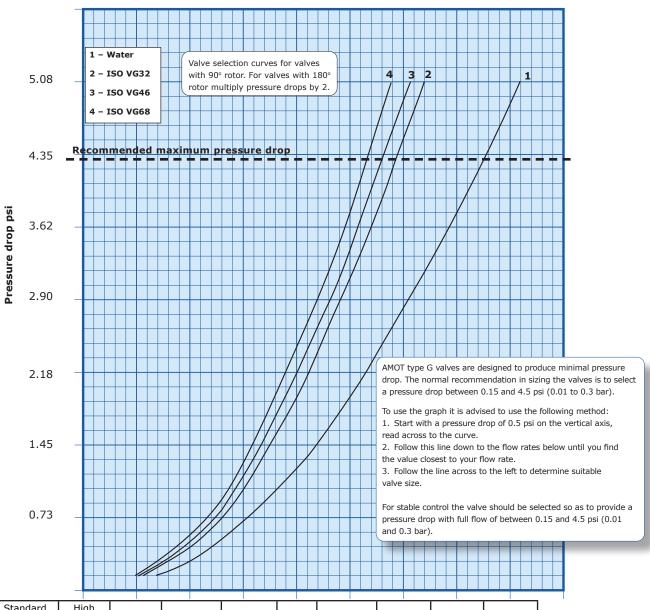


	Standard Flow	High Flow								
	80 (3)	50 (2)	7	14	20	26	33	39	46	52
	100 (4)	80 (3)	19	35	51	67	83	99	115	131
(Inches)	125 & 150 (5 & 6)	100 (4)	29	54	79	104	129	154	179	204
	200 (8)	150 (6)	66	122	178	235	291	347	403	459
N		200 (8)	118	218	318	418	517	617	717	817
Size	250 (10)									
"	300 (12)	250 (10)								
	350 (14)	300(12)				urrently only av atasheet GEF_G				
	400 (16)	350 (14)			See Da					
	450 (18)	400 (16)								

Datasheet\_GG\_Temp\_Control\_Valve\_0321\_rev19

## Valve Sizing (English units)

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



	Standard Flow	High Flow								
	3 (80)	2 (50)	31	62	88	114	145	172	203	229
	4 (100)	3 (80)	84	154	225	295	365	436	506	577
(DN)	5 & 6 (125 & 150)	4 (100)	128	238	348	458	568	678	788	898
inches	8 (200)	6 (150)	291	537	784	1035	1281	1528	1774	2021
		8 (200)	520	960	1400	1840	2276	2717	3157	3597
Size	10 (250)									
	12 (300)	10 (250)								
	14 (350)	12 (300)				Currently	only available i		arciana	
	16 (400)	14 (350)					GEF_GPD_Ten			
	18 (450)	16 (400)								

Datasheet\_GG\_Temp\_Control\_Valve\_0321\_rev19

### 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)

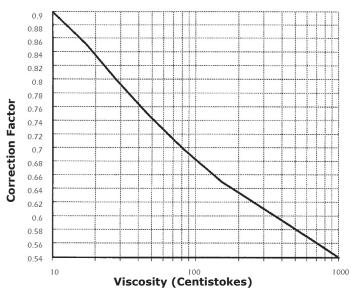
Some approximate viscosities (cSt) of SAE oils at 40°C (110°F) are shown below, based on leading oil manufacturers published data.

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	SA
SAE 10W	32	SA
SAE 20	46	SA
SAE 20W	68	SA
SAE 30	100	SA
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 (in)	Standard flow High flow	80 (3) 50 (2)	100 (4) 80 (3)	150 (6) 100 (4)	200 (8) 150 (6)	200 (8)	250 (10)	300 (12) 250 (10)	350 (14) 300 (12)	400 (16) 350 (14)	450 (18) 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 (0.15 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:  $\Box = 2^2$ 

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

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

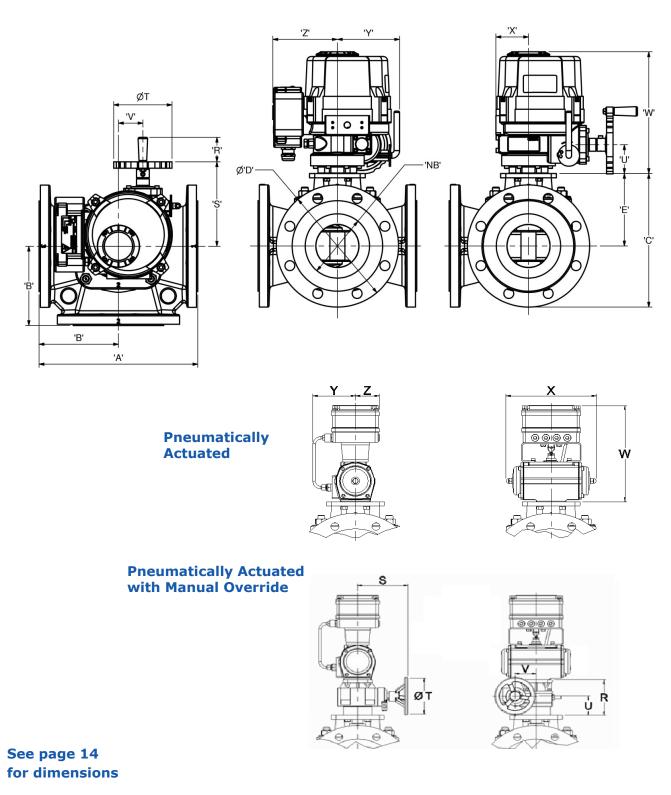
#### **Valve Bypass Flowrates**

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**



## **Dimensions continued**

#### **Dimensions in mm**

			Valve	Body						Elec	trically	Actuat	ed			Pneumatically Actuated									
Valve Type	NB	Α	в	с	D	E	R	S	т	U	v	w	х	Y	z	R*	S*	T*	U*	<b>V</b> *	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										90	123	100	52	52	240	192	90	55	04GGH
05GGS	125	340	170	296	254	169	57	197	136	67	57	284	76	145	151										05GGH
06GGS	150	370	185	312	285	169																			06GGS
06GGH	150	370	105	346	285	191										100									06GGH
08GGS	200	450	225	371	343	191										113	155	200	45	79	297	362	115	53	08GGS
08GGH	200	400	225	418	340	235										113									08GGH

#### **Dimensions in inches**

Valve Type			Valve	Body						Elec	trically	Actuat	ed			Pneumatically Actuated								Valve Type	
valve Type	NB	Α	В	с	D	E	R	s	т	U	v	w	х	Y	z	R*	S*	Т*	U*	V*	w	х	Y	z	valve Type
03GGS	3.00	11.02	5.51	8.15	7.87	4.21																			03GGS
03GGH	3.00	11.02	5.51	8.94	7.87	5.00																			03GGH
04GGS	4.00	11.81	5.91	9.53	9.02	5.04										3.74	4.84	3.94	2.05	2.05	9.65	7.56	3.74	2.09	04GGS
04GGH	4.00	11.01	5.81	11.06	8.82	6.65										5.74	4.04	3.94	2.05	2.05	9.05	7.50	3.74	2.09	04GGH
05GGS	5.00	13.39	6.69	11.65	10.00	6.65	2.24	7.76	5.35	2.64	2.24	11.18	2.99	5.71	5.95										05GGS
06GGS	6.00	14.57	7.28	12.28	11.22	6.65																			06GGS
06GGH	0.00	14.57	1.20	13.62	11.22	7.52										3.94									06GGH
08GGS	8.00	17.72	8.86	14.61	13.50	7.52										4.45	6.10	7.87	1.77	3.11	11.69	14.25	4.53	2.09	08GGS
08GGH	0.00	11.12	0.00	16.46	13.39	9.25										4.40									08GGH

\* 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 single	phase						
Limit switc	hes	Two open/close SPDT		250V AC, 10A							
Motor ther	mal protection	Fitted as standard									
Angular rot	ation	110° max		Quarter turn							
Position se	nsor	Contactless half effect									
Cable entry	1	2 x M25 x 1.5		IP68 glands pro	vided						
Mechanical	stop	Two adjustable screws									
Manual ove	erride	Fitted as standard									
Materials		Steel, aluminum alloy, aluminum bronze, polycarbonate									
External co	ating	Dry powder polyester									
Weatherpro	oof enclosure	IP67, NEMA 4 and 6									
Ambient te	mperature	-20°C to +70°C (-4°F to +158°F) (Contact us for -40°C variants)									
Ambient hu	ımidity	90% RH max (non-condensing)									
Anti-conde	nsation heater	7 - 10W									
Vibration re	esistance	5 - 100 Hz		5g							
		100 - 300 Hz		1g							
Performanc	ce	Duty cycle 20°C	Stroke ti	me (secs)	Max cur	rrent (A)					
Standard	High flow		50 Hz	60 Hz	220V	110V					
	50	Currently only available in GEF	/GPD versions.	See Datasheet GEF_GP	D_Temp_Cont	rol_Valve for data					
80 - 200	80 - 200	65%	21	0.88	1.7						
250 - 450	250 - 400	Currently only available in GEF	/GPD versions.	See Datasheet GEF_GP	D_Temp_Cont	rol_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			
		06GG										6 Inch (DN150)	DN150)			
		08GG										8 Inch (DN200)				
	Malaza El											Valve Flow Type	pe (Refer to flow coefficient table for Cv/Kv data)			
	Valve Flo	bw	S									Standard Flow Valve High Flow Valve				
	Туре		Н													
Valve Body Selection					,				Body Material							
	Valve Body D											Ductile Iron				
												Flange Class	Flange Standard	Flat / Raised Face		
					А							PN6	EN 1092	Raised		
Ň		Valve Flange B Connection Standard F										PN10	EN 1092	Raised		
₽												PN16	EN 1092	Raised		
õ												125 lb (Flat Face)	ASME	Flat		
e	and Clas	S			j							150 lb	ASME	Raised		
2					L	1						10K	JIS	Flat		
Va					M							5K	JIS	Flat		
									Rotor Type	515	i luc					
	Rotor Ty	S						Standard Rotor								
-						3							Rotor Position Rotation Starting			
												Cold Process	Hot Process	Cold Position		
	Valve Mode of Operation									Port 1	Port 2					
										Port 1 Port 2	Port 3	Clockwise				
											Port 2 Port 3	Port 1	CIUCKWISE			
	21 32										Port 3 Port 2	Port 1				
											Port 2 Port 3	Port 2	Anticlockwise			
	13											Port 3 Port 1		Port 3		
							13							Monuel exemide		
							0					Power Supply 100 -120 Vac 50/60Hz	Air Connection	Manual override		
							EA EB					-	Fitted as Standard			
	Electric Actuator Power Supply					-	_				200 - 240 Vac 50/60Hz -					
						-	P1				-	G1/4 (1/4" BSPP)	Not Fitted			
	Connect	ions & I	Manu	ual ov	verri	de	Pneu	P2					1/4" NPT			
5							Ā	P3				-	G1/4 (1/4" BSPP)	Fitted		
ţi -								P4				Toront Circust	1/4" NPT Comments			
Actuator Selection												Input Signal				
)e								Elec	A			Relays, Switched Live Sup	אוענ			
5								Ш	В			4-20mA	On Increasing Temperature			
to									С			20-4mA				
na								Pne	1			3-15psi	2 .			
Ū.	<u>د</u> 2											15-3psi				
◄	Actuator Feedback Signal											Feedback Signal	Net englischie fan Actusten Control Ian (1971)			
										AA		None	Not applicable for Actuator Control Input Signal			
												codes B or C				
									le	CA		4-20mA Position Retransmit 20-4mA Position Retransmit				
									ш	EA						
									Pne	00		None				
	Customer Special Options															
											-AA	Standard Product				
											_***	Customer Special Code Assigned				

### Accessories

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





PID Controller 8072D

Solid State 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: zero-crossing 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



mperatureTemperatureProbeController80608071D

Converter 8064A

G Valve

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**



Temperature probe controller 8071D 8060

Electro-pneumatic converter 8064C

### Pneumatic Indicator Controller - SG80



Pneumatic Indicator Controller **SG80** 

#### **Typical Application**





SG80 Temperature Controller and Sensor

### 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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#### 🔔 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.



www.amot.com