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

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





GG Valve

Contents

Overview		3
Applications		3
System Types (Electric)		4
System Types (Pneumatic)		5
Overview of the Valve Body	y	6
Valve Dimensions		7
G Valve Body		8
•		
Valve Sizing		9
Valve Flowrate Selectio	n: Flowrate m3/hr (USg/m)	9
Viscosity Correction		10
Viscosity Correction Cu	urve	10
SAE Oil Viscosities		10
Valve Sizing Calculations		11
Valve Flowrate		11
Pressure Drop		11
Valve Bypass Flowrates	S	11
Overview of Electric Actuat	tion	12
Overview of Pneumatic Act	uation	13
Actuator Dimensions		14
EB Actuator		14
EA Actuator		15
EC Actuator		16
EC050		16
EC100		17
EH Actuator		18
Pneumatic Actuator		19
How to Order		20
Accessories		21
PID Valve Controllers .		22
3-Wire PT100 Tempera	ature Sensor - 8060	22
Solid State Relay Modu	ule – 8070C	23
	nverter – 8064A	
Electro-Pneumatic Con	nverter - 8064C	24
Pneumatic Indicator Co	ontroller – SG80	24

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.

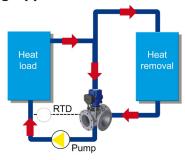
The heavy-duty rotor design provides tight temperature control without high maintenance requirements. The system is available in three standard control configurations: electric; pneumatic; and electro-pneumatic, offering flexibility for most requirements.

Some actuator options are designed and reinforced for vibration service and are qualified to Lloyd's Marine Requirements for shipboard service. Certain G Valve and actuator combinations can be directly mounted to reciprocating machinery such as diesel engines, without vibration isolation.

Standard G 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.

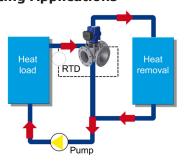
Applications

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.

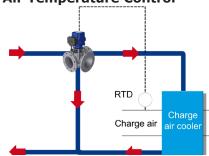
Diverting Applications



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.

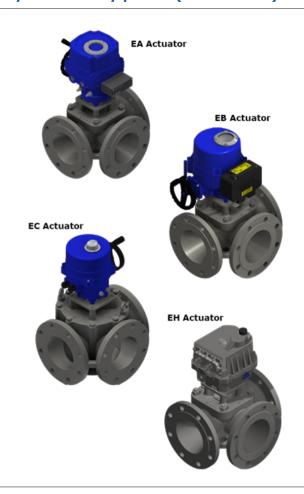
Charge Air Temperature Control



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)



For the electrically operated valves, a number of actuator options are available, which use an electric motor that 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 available on some actuators, providing position indication to the control system.

Most actuators are powered by an electric motor driving a worm-type gearbox. The worm gearbox prevents reverse drive due to the forces generated by fluid flow.

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 12 for more information on the electric actuator options.



A typical electric valve system incorporates an electrically actuated three-way control valve with an electronic controller and temperature probe. The 8071D PID Controller can be either panel or wall mounted (see page 21 for more information). The system is completed with a temperature sensor type 8060 (see page 21 for details).

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

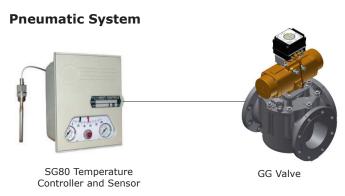
System Types (Pneumatic)



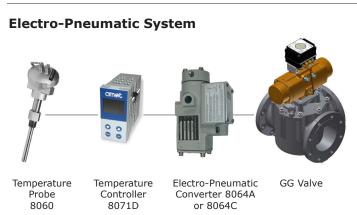
The pneumatic valve uses a spring return pneumatic actuator and positioner to control the rotation of the valve in response to an input signal for a pneumatic or electro-pneumatic control system. The pneumatic control system sends a pneumatic signal ranging from 0.21 to 1.03 bar (3 to 15 psi) to the actuator to correctly position the valve rotor to achieve the correct system temperature. 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 13 for more information on the pneumatic actuator.



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 23. The pneumatic G valve system is ideal when there is a lack of electricity or when a fail-safe system is needed.



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 (where available) or type 8064C. See pages 22 and 23 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 Assembly



Key features and benefits

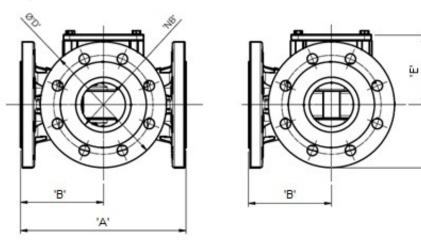
- Lightweight and compact
- Configurable ports allowing flexibility on installation
- Low pressure drop enables savings on either valve or pump size
- High accuracy providing better temperature control

Specification

		Flow To		720m³/hr (3,	170 US gpm)					
		Sizes	Standa	rd Flow	High	Flow				
			65mm-250m	m (2.5"-10")	15mm-200m	nm (0.5"-8")				
		Comments	For D	N250 (10") High Flow GEF_GPD_Temp		heet				
	Во	dy Materials	Ductile iron	Bronze & Aluminium Bronze	Steel	Stainless Steel				
Temp.		Min Fluid Temp	-10°C (14°F) -40°C (-40°F) -10°C (14°F) -40°C (-40°F)							
Range		Max Fluid Temp		+100°C (212°F)*					
		Comments	*F	or higher temperature	variants, contact AMO	T				
	Se	eal Materials	Fluorocarbon	Nitrile	AFLAS	EPDM				
			(Viton/FKM)	(NBR)	(TFE/P)					
Compatibility		Water (≤80°C/176°F)	√	√	√	√				
		Hot Water (>80°C/176°F)	X	X	√	√				
		Ethylene/Propylene Glycol	√	√	√	√				
		Oils (Synthetic Based)	\checkmark	X	X	X				
		Oils (Petroleum Based)	√	√	X	Х				
Temp. Ra	ange	Min Fluid Temp	-15°C (23°F)	-30°C (-22°F)	+10°C (50°F)	-45°C (-49°F				
		Max Fluid Temp	+180°C (356°F)	+80°C (176°F)	+180°C (356°F)	+100°C (212°I				
		Comments	Seal material compatibility is based on standardised seal manufacturer recommendations, and is provided for guidance only							
Maxim	um Ir	nternal Valve Pressure	Ductile Iron, Bro	nze & Al. Bronze	10 Bar (145 psi)					
			0.5"-4" Steel &	Stainless Steel	16 Bar (232 psi)					
			6" and above Stee	el & Stainless Steel	15 Bar (218 psi)					
		Comments		valve pressure may be sen. Contact AMOT for						
Maximun	n Syst	em Differential Pressure	Standar	d Valves	Class II	Valves				
			5 bar (73 psi)	1 bar (1	.5 psi)*				
		Comments	*For h	igher differential pres	sure options, contact <i>i</i>	AMOT				
Press	ure E	quipment Compliance	Pressu	ıre Accessory - Sound	Engineering Practice	(SEP)				
		Comments	'In its design as a temperature control valve, the G Valve is defined as a Pressure Accessory under the terms of the EU Pressure Equipment Directive (PED) and the GB Pressure Equipment (Safety) Regulation (PE(S)R).							
			the G Valve range i defined as Group 2	When used within the temperature and pressure limitations given in this table, the G Valve range is designed for use in applications using non-hazardous liquids defined as Group 2 in the Directive/Regulation (such as water, water/glycol and lubricating oil). In these applications, the valves fall into the Sound Engineering Practice (SEP) category.						
			of the above limita	cuss solutions if the apations, or if it is to use zardous (Group 2) or	hazardous liquids (Gr	oup 1) or contain				

Valve Dimensions

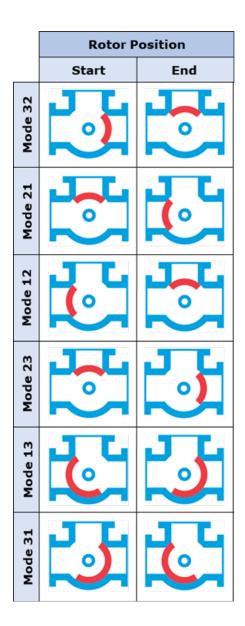
G Valve Body

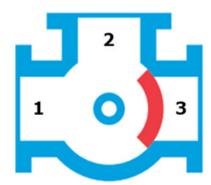


Valve Type		Val	ve Body (Din	nensions in m	ım)	
	NB	Α	В	С	D	E
0.5GGH	15			133	95	
0.75GGH	20	178	89	138	105	86
01GGH	25			148	125	
02GGH	50	222		173	165	
2.5GGS	65	230	115	184	185	91
03GGS	80	280	140	191	200	
03GGH	80	200	150	217	200	117
04GGS	100	300		232	229	117
04GGH	100	300	130	271	224	
05GGS	125	340	170	286	254	159
06GGS	150	370	185	302	285	
06GGH	130	370	103	336	285	181
08GGS	200	450	225	361	343	101
08GGH	200	430	223	408	340	225
10GGS	250	520	260	445	406	223

Valve Type		Valv	e Body (Dime	ensions in Inc	ches)	
	NB	Α	В	С	D	E
0.5GGH	0.5			5.24	3.74	
0.75GGH	0.75	7.01	3.50	5.43	4.13	3.39
01GGH	1			5.83	4.92	
02GGH	2	0.06	4.52	6.81	6.50	
2.5GGS	2.5	9.06	9.06 4.53	7.24	7.28	3.58
03GGS	3	11.02	5.51	7.52	7.87	
03GGH	3	11.02	5.51	8.54	7.87	4.61
04GGS	4	11.81	5.91	9.13	9.02	4.61
04GGH	4	11.61	5.91	10.67	8.82	
05GGS	5	13.39	6.69	11.26	10.00	6.26
06GGS	6	14.57	7.28	11.89	11.22	
06GGH	U	14.3/	7.20	13.23	11.22	7.13
08GGS	8	17.72	8.86	14.21	13.50	/.13
08GGH	O .	17.72	0.00	16.06	13.39	8.86
10GGS	10	20.47	10.24	17.52	15.98	0.00

Modes of Operation





Port Number Diagram

The unique construction of the AMOT G Valve provides total flexibility by allowing valve port position selections to most ideally suit 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.

For electrically actuated valves, the 'Start' and 'End' positions indicate valve movement with a change in input signal, as viewed from above (see diagram). On loss of signal the actuator is set up by default to stop in its current position.

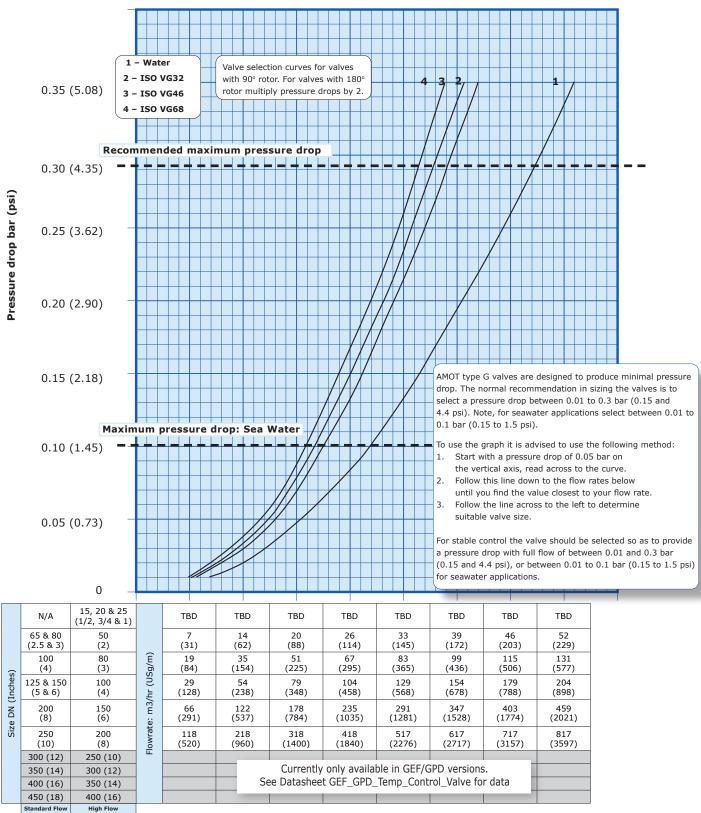
For pneumatically actuated valves, the 'Start' and 'End' positions indicate valve movement with a change in input signal, as viewed from above (see diagram). On loss of signal the actuator is set up by default to return to its 'Start' position.

For 'Start' & 'End' input conditions, see table below.

	Rotor P	locition	Elec	tric		Pneumatic		
	KOLOI F	OSILIOII	Start	End	Start	End	No Signal	
	Input	Direct	Low Signal	High Signal	Low Signal	High Signal	Start	
ı	Input	Reverse	High Signal	Low Signal	High Signal	Low Signal	End	

Valve Sizing

Valve Flowrate Selection: Flowrate m³/hr (USg/m)



Viscosity Correction

Example:

From the graph below:

100 cSt = correction factor of 0.68

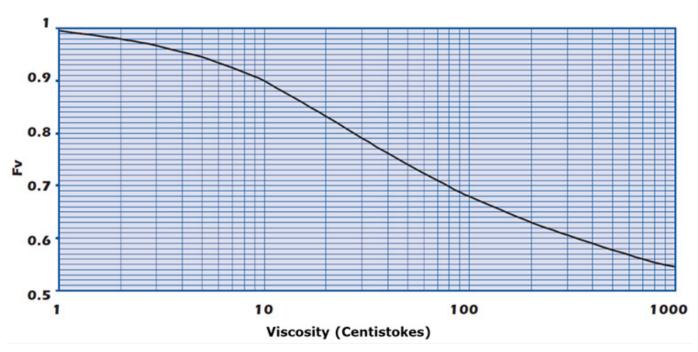
0.68 x flow coefficient = corrected flow coefficient (Kv or Cv)

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 Curve



SAE Oil Viscosities

Engine	e oils
Oil	cSt
SAE 5W	6.8
SAE 10W	32
SAE 20	46
SAE 20W	68
SAE 30	100
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

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

Valve Sizing Calculations

Valve Flowrate

See the table below for examples of Kv and Cv:

Size DN (in)	Standard Flow	N/A	N/A	N/A	65 (2.5)	80 (3)	100 (4)	125 & 150 200 (5 & 6) (8)		250 (10)	300 (12)	350 (14)	400 (16)	450 (18)
	High Flow	15 (1/2)	20 (3/4)	25 (1)	N/A	50 (2)	80 (3)	100 (4)	150 (6)	200 (8)	250 (10)	300 (12)	350 (14)	400 (16)
Kv		7	14	27	112	82	207	323	729	1296	Currently only available in GEF/GPD versions. See Datasheet GEF_GPD_Temp_ Control_Valve for data			
Cv		8	16	31	129	96	242	378	851	1513				

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 4.4 psi).

Note: For sea water, the valve should be sized for a pressure drop between 0.01 and 0.1 bar (0.15 and 4.4 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:

There are two other ways that this formula can be used to find the flow in m³/h or pressure drop of a valve in bar:

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

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

$$Cv = Q \sqrt{\frac{SG}{Dp}} \qquad \qquad Q = Flow (US gallons/min) \\ Dp = Pressure drop (psi) \\ SG = Specific gravity of fluid \\ Cv = Valve flow coefficient$$

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 PST:

PSI:

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

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

Valve Bypass Flowrates

The AMOT G Valve is not a tight shutoff valve. When the standard rotor type is 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.

When reduced leakage is required, the Class II rotor type should be selected, allowing for a maximum leakage of 0.5% of maximum rated flow. Consult AMOT for further information if the application is sensitive to leakage rates or if high pressure differences are likely to occur.

Overview of Electric Actuation

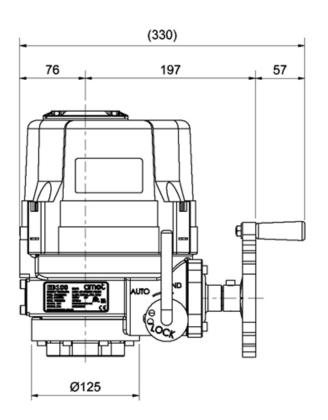
		El	ectric Actuator Specification Table								
		EC		EA		В	E	:H			
Actuator		-	7		6						
Key Features & Benefits	Manual of standard - varin event of processes to the standard section of	Lightweight & economical valve actuator Manual override fitted as standard - valve can be operated in event of power failure EC050 with tool. EC100/EC300 with handwheel Optional Positioner available on all sizes 115V ± 10%		th minimal backlash ion - prevents valve nt due to flow switches for user inection e fitted as standard operated in event of er failure witches - provide event of actuator rloading	Self-locking with in transmission movement Auxiliary limit con Manual override - valve can be o powe Two torque ss protection in over	ion resistance in minimal backlash in prevents valve t due to flow switches for user nection if tited as standard perated in event of ir failure witches - provide event of actuator loading if Duty Cycle	High vibration and shock resistance Increased operating temperature range Hazardous location options available Manual override fitted to non-hazardous area version - valve can toperated in event of power failure Software is configurable for varying applications CAN bus communication Improved Duty Cycle				
Power	230V ± 10%	50/60Hz Single Phase 3 Phase	115V ± 10% 230V ± 10%	50/60Hz Single Phase	115V ± 10% 230V ± 10%	50/60Hz Single Phase	24	VDC			
Size Compatibility		0.5GGH-06GGS 06GGH-10GGS	EA100: 0.	5GGH-10GGS	EB100: 0.5	GGH-10GGS	EH125: 0).5-10GGS			
Duty Cycle @ 20°C	50%		6	55%	10	10%	10	0%			
Duty Cycle @ Max. Temp.	24	0V: 35% V: 100%		7%	230V	: 45% :: 48%	100%				
Stroke Time	EC050: Fixed @ 15s EC0100: Fixed @ 19s 115V: 0.54A EC050 230V: 0.32A 24VAC/DC: 1.35A 115V: 1.4A EC100 230V: 0,69A 24VAC/DC: 4.8A			ixed @ 25s ized @ 21s		xed @ 26s zed @ 22s	Adjusta	ble ≥ 6s			
Max Current				: 0.88A / : 1.7A		: 0.88A : 1.7A	5A				
Limit Indication	Two open/close SPDT	250V AC, 5A	Two open/close SPDT	250V AC, 10A	Two open/close SPDT	250V AC, 10A	5V/10V Digital	Outputs, 10mA			
Vibration Resistance	3701										
Sinusoidal (*Lloyds Test 2)		N/A	5-100Hz 100-300Hz	4g* 1g* (90 mins)	5-100Hz 100-300Hz	4g* 1g* (90mins)	5-100Hz 100-300Hz	4g* 1g* (90 mins)			
Random		N/A	ı	N/A		I/A		S,10-1000H urs/axis			
Mechanical Shock		N/A		N/A	<u> </u>	I/A	MIL-STD-810G	40g			
Motor Thermal Protection	Fitted Min.	as standard Max.	Fitted a Min.	s standard Max.	Fitted as Min.	standard Max.	Fitted as Min.	standard Max.			
Ambient Temperature	-25°C	+70°C	-20°C	+70°C	-20°C	+70°C	-40°C	+125°C			
Weatherproof Enclosure	IP67	NEMA 4 & 6	IP67	NEMA 4 & 6	IP67	NEMA 4 & 6	IP67	IP69K			
Materials	Steel, Alumin	um alloy, Aluminum Polycarbonate	Steel, Aluminur	n alloy, Aluminum olycarbonate	Steel, Aluminun	n alloy, Aluminum Nycarbonate	Steel, Aluminum	alloy, Aluminum			
Angular Rotation	100° max.	1/4 Turn	100° max.	1/4 Turn	100° max.	1/4 Turn		tandard			
Position Sensor		entiometer		tiometer		s hall effect		s hall effect			
Cable Entry	EC05	50 : PG13.5 100 : PG16	2x M:	25 x 1.5		5 x 1.5	Control Type Analogue Digital	Size 2x M25 x 1.5 2x M20 x 1.5			
Mechanical Stop	EC050 : N/A EC0100 : Two adjustable screws		Two adjus	table screws	Two adjust	table screws	Internal, non-adjustable				
Manual Override	Fitted	as standard	Fitted a	s standard	Fitted as	standard	Fitted as	standard			
External Coating	Dry pov	vder polyester	Dry powd	er polyester		er polyester	Cast anodis	ed aluminum			
Anti-Condensation Heater		7-10W	7-	10W	7-	10W	1	0W			
Acceptable Orientation	Vertically upright from vertical o Not suitable f mounting further 90° from verti	or than	Any Any		Any Any		Any				

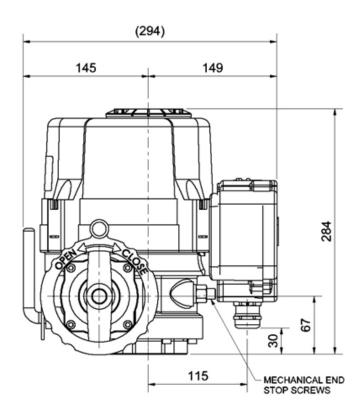
Overview of Pneumatic Actuation

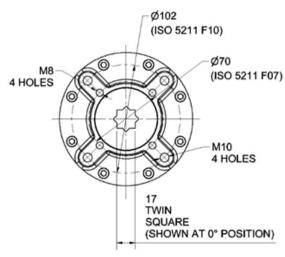
Pneumatic Actuator	Specification '	Table				
Actuator	F-Se	eries				
Key Features & Benefits	A rugged quarter turn and pinion pneumation return and valve positions.	c actuator with spring				
	Can be configured fail	il-safe				
	Low temperature version available					
Supply Pressure	6 to 8 Bar	90 to 115 psi				
Signal Pressure	0.21 to 1.03 Bar	3 to 15 psi				
Pressure Connections	G1/4 or	1/4 NPT				
Ambient Temperature	Min.	Max.				
	-20°C	+80°C				
Manual Override	Opti	onal				
Mounting Orientation	Any					

Actuator Dimensions

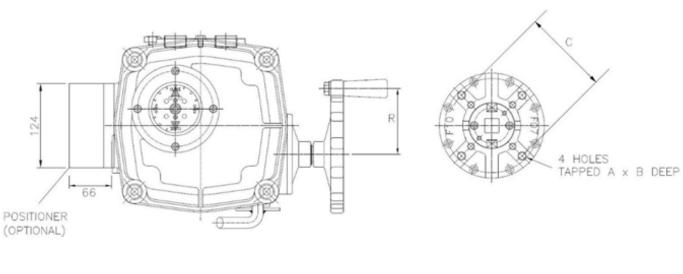
EB Actuator

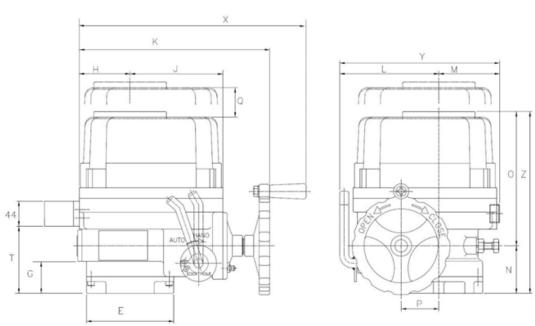






EA Actuator



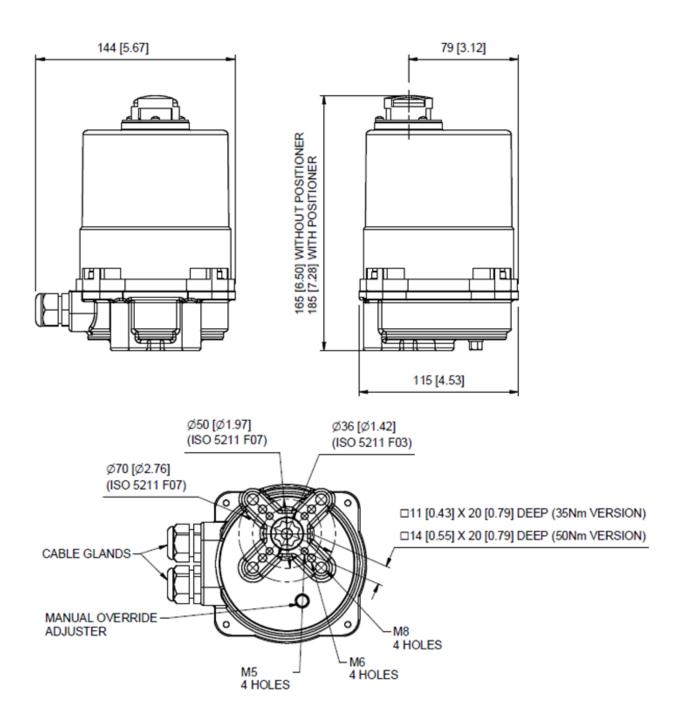


Units	Base	С	E	G	н	J	К	L	М	N	0	P	Q	R	Т	х	Y	Z
mm	F10	102	125	42	73	133	273	142	87	68	192	54	160	78	86	338	229	268
Inches	F10	4.0	4.9	1.7	2.9	5.2	10.7	5.6	3.4	2.7	7.6	2.1	6.3	3.1	3.4	13.3	9.0	10.6

EC Actuator

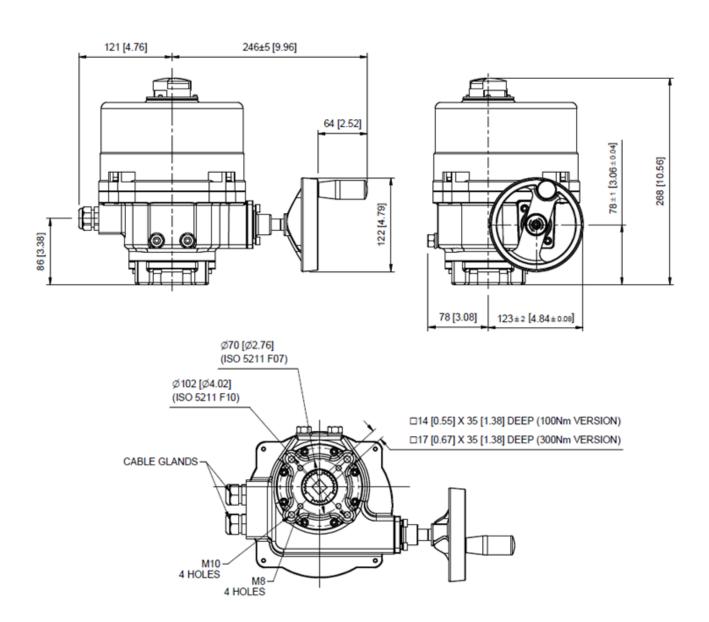
EC050

Dimensions in mm [in]

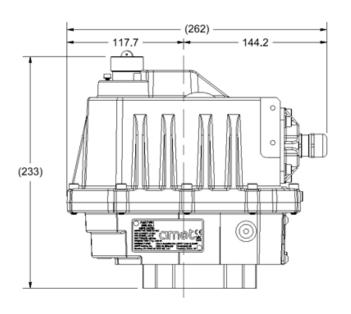


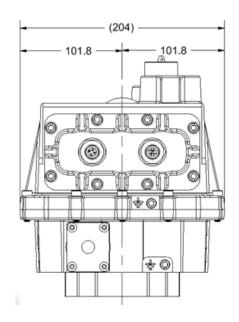
EC100

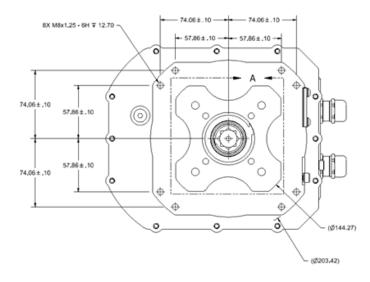
Dimensions in mm [in]

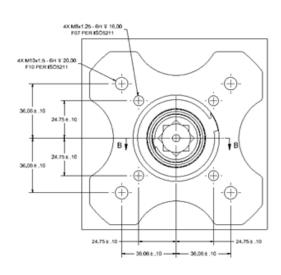


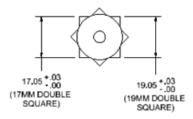
EH Actuator





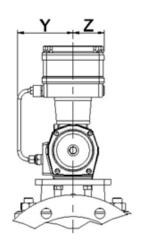


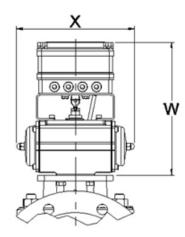




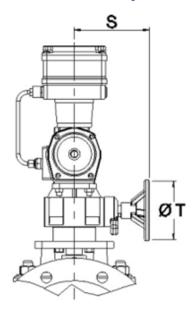
Pneumatic Actuator

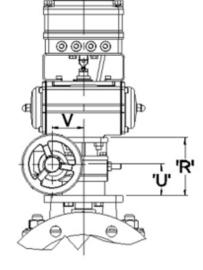
Pneumatically Actuated





Pneumatically Actuated with Manual Override





				Act	tuato	r
				Act	tuato	r
	L	lme	nsion	ıs	ın	mr

Valve	Actuator											
Туре	R	S	Т	U	v	w	х	Υ	z			
0.5GGH												
0.75GGH			100	61	49	245	192	95				
01GGH	103											
02GGH		168										
2.5GGS				60.5								
03GGS									53			
03GGH				49.5								
04GGS												
04GGH	92											
05GGS												
06GGS												
06GGH	137	230	200	86			362	115				
08GGS	162			111	74	288			53			
08GGH	137		200	86					23			
10GGS	162			111								

Dimensions in Inches

Valve	Actuator												
Туре	R	S	Т	U	V	w	х	Υ	Z				
0.5GGH													
0.75GGH				2.40									
01GGH	4.06	6.61	3.94		1.93	9.65		3.74	2.09				
02GGH	4.06						7.56						
2.5GGS				2.38									
03GGS	1												
03GGH													
04GGS													
04GGH	3.62			1.95									
05GGS													
06GGS													
06GGH	5.39			3.39									
08GGS	6.38	9.06	7.87	4.37	2.91	11.34	14.25	4.53	2.09				
08GGH	5.39	3.00	7.07	3.39					2.09				
10GGS	6.38			4.37									

How to Order

	nple code																		
		06	GG	S	D	В	S	32	E	В	В	С	A	-AA		Code D	escription		
															Nominal Bore Size			Comments	
V		0.5													1/2 inch (DN15)			High flow only	
		0.75									L		Ĺ		3/4 inch (DN20)			High flow only Standard flow only Nitrie (NBR) Viton (FKM) Nitrie (NBR) Viton (FKM) Nitrie (NBR) Viton (FKM) Nitrie (NBR) Standard flow only Viton (FKM) Nitrie (NBR) Utton (FKM) Duttile iron, Steel Duttile iron, Steel Duttile iron, Steel Duttile iron, Steel Bronze, Aluminium Comments Duttile Iron only Duttile Iron only	
		01													1 inch (DN25)			High flow only	
		02													2 inch (DN50)			High flow only Standard flow only Vitton (FKM) Nitrie (NBR) Vitton (FKM) Nitrie (NBR) Vitton (FKM) Nitrie (NBR) Standard flow only Vitton (FKM) Nitrie (NBR) Standard flow only Standard	
'	Valv- C	2.5													2.5 inch (DN65)				
	Valve Size	03													3 inch (DN80)			·	
		04													4 inch (DN100)				
		05													5 inch (DN125)			Standard flow only	
		06													6 inch (DN150)				
		08													8 inch (DN200)				
		10													10 inch (DN250)			Standard flow only	
															Model Type				
	Valve N	Model	GG												Model G Valve				
															Valve Flow Type				
	Valv	ve Flow Ty	уре	S											Standard Flow			High flow only Standard flow only Viton (FKM) Nitrile (NBR) Viton (FKM) Nitrile (NBR) Viton (FKM) Nitrile (NBR) Viton (FKM) Nitrile (NBR) Standard flow only Viton (FKM) Nitrile (NBR) Utton (FKM) Nitrile (NBR) Duttile iron, Steel Robert iron, Steel Duttile iron, Steel Duttile iron, Steel Duttile iron, Steel Robert iron, Steel Duttile iron, Steel Robert iron, Steel Duttile iron, Steel Robert iron,	
				Н											High Flow				
															Body Material			Seal Material	
					В										Bronze				
					Е										Bronze		1	Nitrile (NBR)	
					D										Ductile Iron				
					G										Ductile Iron				
					М										Ductile Iron				
5	Valv	ve Body/S	Seal Mate	rial	S										Steel				
ŧ					3										Steel				
Valve Body Selection					R										Stainless Steel				
S					K										Stainless Steel				
\$					T										Stainless Steel				
B					N										Nickel Aluminium Bronze				
S S					Н										Nickel Aluminium Bronze		-		
a															Flange Class	Flange Standard	Flange Facing		
						A									PN6	EN 1092	Raised		
						1									PN6	EN 1092	Flat		
						В									PN10	EN 1092			
						2									PN10	EN 1092			
						C									PN16	EN 1092			
						3									PN16	EN 1092			
	Valve Fla	ange Conn	nection, S	andard an	d Class	J									150	ASME		Ductile iron, Steel 8	St. Steel only
						6									150	ASME			
						9									10K	JIS		Ductile iron Steel 8	St Steel only
						L			-		_				10K	JIS		Ductile Iron, Steer o	x St. Steel only
						7			$\overline{}$		-		_		5K	JIS		Ductile iron Steel 9	Ct Ctool only
						M		_	\vdash		-		-		5K	JIS		Ductile Iron, Steer o	x St. Steel only
						N		_	_		_		-		150	MIL-PRF-20042E		December Alternations	Description of the control of the co
 -						IN									Rotor Type	MIL-PRF-20042E	ridt		bronze only
			D-4	T														Continents	
			Rotor	туре			S H				_		-		Standard Rotor ANSI Class II (0.5%)			Dustile Issue selv	
 -							п									Start Position	1		
								12											IOII
								23	<u> </u>		_		-			Port 1			
				ode of Ope				31			-		-			Port 2			
			valve M	oae or Ope	eration			21			-		-			Port 3			
											_		-			Port 2		Vitro (FEM) Nitrie (NBR) Vitro (FKM) Nitrie (NBR) Vitro (FKM) Nitrie (NBR) EPDM Vitro (FKM) Nitrie (NBR) Comments Ductile iron, Steel & : Ductil	
								32 13			-		-			Port 3			
-								13								Port 1		PORT 3	
									-				_		Actuator Type				
									E F		-		-		EB Type Electric Actuator				
											-		-		EA Type Electric Actuator			High flow only Standard flow only Vitton (FKM) Nitrile (NBR) Vitton (FKM) Nitrile (NBR) Vitton (FKM) Nitrile (NBR) Standard flow only Vitton (FKM) Nitrile (NBR) Other (FKM) Nitrile (NBR) Standard flow only Standard flow only Vitton (FKM) Nitrile (NBR) Ductile iron, Steel & S Ductile iron only Rotor End Position Port 2 Port 3 Port 1 Port 1 Port 1 Port 2 Port 3 Port 3 Port 1 Port 1 Port 2 Port 3 Port 1 Port 2 Port 3 Port 1 Port 2 Port 3 Port 1 Port 1 Port 2 Port 3 Port 1 Port 1 Port 2 Port 3 Port 1 Port 2 Port 3 Port 1 Port 1 Port 2 Port 3 Port 1 Port 1 Port 2 Port 3 Port 1 Port 2 Port 3 Port 3 Port 1 Port 1 Port 2 Port 3 Port 3 Port 3 Port 1 Port 1 Port 2 Port 3 Port 3 Port 3 Port 1 Port 3 Port 3 Port 4 Port 3 Port 4 Port 4 Port 3 Port 4 Port 3 Port 3 Port 4 Port 4 Port 3 Port 3 Port 4 Port 4 Port 3 Port 3 Port 4 Port 4 Port 3 Port 4 Port 4 Port 5 Port 3 Port 4 Port 4 Port 5 Port 3 Port 1 Port 5 Port 3 Port 1 Port 1 Port 1 Port 1 Port 2 Port 3	
			,	alve Actua	ition Type				G		_		-		EC Type Electric Actuator				
									H L		_				EH Type Electric Actuator Low Temp Pneumatic Actuator	25			
									P		_		_		F-series Pneumatic Actuator	, , , , , , , , , , , , , , , , , , ,			
-									<u> </u>						Actuator Supply Type		,		Comments
										A					100 - 120 Vac 50/60Hz				Comments
									ĺ	В			_		200 - 240 Vac 50/60Hz				
									Elec.	c					380 Vac, 3 Phase, 50/60Hz				EC Actuator only
			Δ.	tuator Pov	ver Sunnh	,			ĺ	E					24VDC				EC & EH Actuator only
			~							1					G1/4 (1/4") BSP Connections				Accounter offiny
									ĺ	2					1/4" NPT Connections	-	Seal Material Viton (FKM) Nirria (MBR) Flat Raised Flat Raised Ductie iron, Steel & St. Flat Bronze, Aluminium Brot Comments Port 2 Port 3 Port 1 Port 1 Port 1 Port 2 Port 3 Port 1 Port 2 Port 3 Port 3 Port 1 Port 1 Port 2 Port 3 Port 3 Port 3 Port 4 Port 5 Port 5 Port 6 Port 9 Po		
									Pneu.	3					G1/4 (1/4") BSP Connections	s + Manual O/R		High flow only Standard flow only Viton (FKH) Nitrile (NBR) Viton (FKH) Nitrile (NBR) Viton (FKH) Nitrile (NBR) Comments Duttle Iron, Steel 8 Duttle Iron, Steel 8 Duttle Iron only Rotor fich Positi Port 2 Port 3 Port 3 Port 1 Port 1 Port 1 Port 2 Port 3 Port 3 Port 3 Port 3 Port 3 Port 1 Port 1 Port 1 Port 1 Port 1 Port 2 Port 3 Port 3 Port 3 Port 3 Port 3 Port 3 Port 1 Port 1 Port 1 Port 1 Port 2 Port 3 Port 1 Port 1 Port 1 Port 1 Port 2 Port 3 Port 4 Port 4 Port 4 Port 4 Port 4 Port 5 Port 5 Port 5 Port 5 Port 6 Port 6 Port 7 Port 7 Port 7 Port 9	
									ĺ	4					1/4" NPT Connections + Man				
																Input Signal			
															Start		Direction	Туре	Comments
											A							Relays, Switched	Electric Actuators
nc		-																	
ction																N/A		Live Supply	
slection											В				4mA	N/A	irect Acting)	Live Supply	
Selection											B C				4mA 20mA	N/A 20mA (D	irect Acting) verse Acting)	Live Supply	
tor Selection				Actua	tor Contro	l Input Sic	gnal				-					N/A (D 4mA (Re		Live Supply	EC & EH Actuator only
uator Selection				Actua	tor Contro	l Input Siç	gnal				С				20mA	N/A (D 20mA (D 4mA (Re 10V (D	verse Acting)	Live Supply	
Actuator Selection				Actua	tor Contro	l Input Siç	gnal				C K				20mA 0V	N/A (D 20mA (D 4mA (Re 10V (D 0V (Re	verse Acting) irect Acting)	Live Supply	
Actuator Selection				Actua	tor Contro	l Input Siç	gnal				C K L				20mA 0V 10V	N/A (D 20mA (D 4mA (Re 10V (D 0V (Re 1000 (D	verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus J1939	EC & EH Actuator only EH Actuator only
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L				20mA 0V 10V	N/A (D 20mA (D 4mA (Re 10V (D 0V (Re 1000 (D	verse Acting) irect Acting) verse Acting)	Live Supply CAN bus J1939 Pulse-Width	EC & EH Actuator only
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L M N				20mA 0V 10V	N/A 20mA (D 4mA (Re 10V (D) 0V (Re 1000 (D) 100% (D	verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus J1939 Pulse-Width	EC & EH Actuator only EH Actuator only
Actuator Selection				Actua	tor Contro	l Input Siç	gnal				C K L M				20mA 0V 10V 0 0%	N/A 20mA (D 4mA (Re 4mA (Re 10V (D(D 0V (Re 1000 (D 100% (D 135psi (Re 3psi (Re	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting)	Live Supply CAN bus J1939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L M N				20mA 0V 10V 0 0 0% 3psi 15psi	N/A 20mA (D 4mA (Re 10V (D 0V (Re 1000 (D 100% (D) 115psi (D	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting)	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L M N				20mA 0V 10V 0 0 0%	N/A 20mA (D 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 15psi (D 3psi (Re Feedback Signal	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting)	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L M N	A			20mA 0V 10V 0 0 0% 3psi 15psi	N/A 20mA (D 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 15psi (D 3psi (Re Feedback Signal	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting) irect Acting) irect Acting) verse Acting)	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L M N	A C			20mA 0V 10V 0 0 0% 3psi 15psi	N/A 20mA (D 4mA (Re 4mA (Re 10V (D(D 0V (Re 1000 (D 100% (D 15psi (Re Feedback Signal End None	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting) irect Acting) irect Acting) verse Acting)	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments
Actuator Selection				Actua	tor Contro	l Input Sig	gnal				C K L M N	_			20mA	N/A 20mA (D 4mA (Re 10V (D 0V (D 0V (Re 11000 (D 1000 (D 100% (D 15psi (D 3psi (Re Feedback Signal End (None 20mA (D	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting) irect Acting) irect Acting) Direction	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators
Actuator Selection				Actua	tor Contro						C K L M N	С			20mA	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000) (D 100% (D 15psi (C) 3psi (Re Feedback Signal End None 20mA (D 4mA (Re	verse Acting) irect Acting) verse Acting) verse Acting) irect Acting) irect Acting) irect Acting) verse Acting) Direction Direction	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators
Actuator Selection				Actua							C K L M N	C E			20mA	N/A 20mA (C) 4mA (Re 10V (D) 0V (Re 1000 (C) 1000 (C) 100% (D) 15psi (Re 5eedback Signal Eend None 20mA (D) 4mA (Re 4mA (Re	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting) irect Acting) irect Acting) irect Acting) irect Acting) verse Acting) Direction irect Acting) verse Acting)	CAN bus 31939 Pulse-Width Modulation	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators Electric Actuators Electric Actuators Electric Actuators
Actuator Selection				Actua							C K L M N	C E K L			20mA 0V 10V 0 0 9% 15psi 15psi Start 4mA 20mA 0V 10V	N/A 20mA (D 4mA (Re 10V (D 0V (D 10V) (D 100% (D 100% (D 135psi (D 33si (Re Feedback Signal End None 20mA (D 4mA (Re 10V (D 0V (Re	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) verse Acting) verse Acting) verse Acting)	CAN bus J1939 Pulse-Width Modulation Type	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators Electric Actuators Comments Electric Actuators Electric Actuator only
Actuator Selection				Actua							C K L M N	C E K			20mA	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000) (D 100% (D 100% (D 155pi (D 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (C) 0V (Re 100V (C) 0V (Re 100V (C) 0V (Re	verse Acting) irect Acting) verse Acting) irect Acting) irect Acting) irect Acting) irect Acting) irect Acting) irect Acting) verse Acting) Direction irect Acting) verse Acting) irect Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators Electric Actuators Electric Actuators
Actuator Selection				Actua							C K L M N	C E K L			20mA 0V 10V 0 0 0% 3psi 15psi Start 4mA 20mA 0V 10V	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000) (D 100% (D 100% (D 155pi (D 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (C) 0V (Re 100V (C) 0V (Re 100V (C) 0V (Re	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 11939 Pulse-Width Modulation Type CAN bus 31939	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators CE & EH Actuator only EH Actuator only EH Actuator only
Actuator Selection				Actua							C K L M N	C E K L			20mA 0V 10V 0 0 0% 3psi 15psi Start 4mA 20mA 0V 10V	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000) (D 100% (D 100% (D 155pi (D 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (C) 0V (Re 100V (C) 0V (Re 100V (C) 0V (Re	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators CE & EH Actuator only EH Actuator only EH Actuator only
Actuator Selection				Actua							C K L M N	C E K L M			20mA 0V 10V 0 0 0% 3psi 15psi Start 4mA 20mA 0V 10V	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 100%) (D 15psi (C) 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (D 10V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100W (Re 100W (Re 100W (Re) 100W (Re 100W (Re) 100W (Re 100W (Re)	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators EC & EH Actuator only EH Actuator only EH Actuator only
Actuator Selection				Actua			Signal				C K L M N	C E K L M	A		20mA 0V 10V 0 0% 3psi 15psi 15psi Start 4mA 20mA 0V 10V 0 0 0% 6 Cother Options None	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 100%) (D 15psi (C) 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (D 10V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100W (Re 100W (Re 100W (Re) 100W (Re 100W (Re) 100W (Re 100W (Re)	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Pneumatic Actuators Electric Actuators Electric Actuators Electric Actuators EC & EH Actuator only ET ELECTRIC ONL
Actuator Selection				Actua		Feedback	Signal				C K L M N	C E K L M	A		20mA 0V 10V 0 0 0% 15psi 15psi Start 4mA 20mA 0V 10V 0 0 0% Cother Options None	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 100%) (D 15psi (C) 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (D 10V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100W (Re 100W (Re 100W (Re) 100W (Re 100W (Re) 100W (Re 100W (Re)	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only Pheumatic Actuators Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuator only EH Actuator only EH Actuator only EH Actuator only EH Actuator Conly EH E
Actuator Selection				Actua		Feedback	Signal				C K L M N	C E K L M			20mA 0V 10V 0 0% 3psi 15psi 15psi Start 4mA 20mA 0V 10V 0 0 0% 6 Cother Options None	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 100%) (D 15psi (C) 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (D 10V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100W (Re 100W (Re 100W (Re) 100W (Re 100W (Re) 100W (Re 100W (Re)	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EC & EH Actuator only EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators Electric Actuators EC & EH Actuator only EC & EH Actuator only EN ELECTRIC ORDINATION
Actuator Selection				Actua	Actuator	Feedback	Signal)ptions			C K L M N	C E K L M		-AA	20mA 0V 10V 0 0 0% 15psi 15psi Start 4mA 20mA 0V 10V 0 0 0% Cother Options None	N/A 20mA (D 4mA (Re 4mA (Re 10V (D 0V (Re 1000 (D 100% (D 100%) (D 15psi (C) 3psi (Re Feedback Signal End None 20mA (D 4mA (Re 10V (D 10V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100V (Re 100W (Re 100W (Re 100W (Re) 100W (Re 100W (Re) 100W (Re 100W (Re)	verse Acting) irect Acting) verse Acting) irect Acting) verse Acting) irect Acting)	Live Supply CAN bus 31939 Pulse-Width Modulation Type CAN bus 31939 Pulse-Width	EH Actuator only Pneumatic Actuators Pneumatic Actuators Comments Electric Actuators Electric Actuators Electric Actuators Electric Actuators Electric Actuator only EC & EH Actuator only EH Actuator only EH Actuator only Pneumatic Actuators Comments Electric Actuators

Accessories

8071D/8072E and Solid State Relays 47581L001/47581L002







Solid State Relay



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_8071/2E_47581_Valve Controller_SSR

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_8060A_Temp_Sensor

Accessories

Solid State Relay Module - 8073C



Relay Module 8073C

Typical Applications



Interface with 8071D controller

Key features and benefits

- IP67 enclosure
- Alternative to using two individual SSRs type 47581L001/47581L002
- 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.



Interface with DC input signals

For further information and how to order this product see Datasheet_8073C_SSR.pdf

Electro-Pneumatic Converter - 8064A



Key features and benefits

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



For further information and how to order this product see Datasheet_8064A_8064C_ electro/pneumatic_converter

Accessories

Electro-Pneumatic Converter - 8064C

Typical Application

8060



Electro-Pneumatic Converter - 8064C

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_8064C_ electro/pneumatic_converter

Pneumatic Indicator Controller - SG80

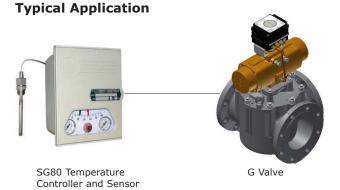
8064C



Pneumatic Indicator Controller SG80

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.

