

Electric Actuators



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Electric Actuators

Hoke actuated valves are available for use in a wide variety of applications including on-off switching, selecting, sampling, and metering of fluids. Specific types of actuated valves include 90° Shut-Off Ball Valves, 3-way, 4-way and 5-way Ball Valves and Metering Valves. Electrically actuated valves are supplied in two standard voltages, 115 VAC and 24 VDC, designed to be weather-proof standards. The Application / Buyers Guide will help you select the actuator-valve combination best suited to your requirements. Depend on Hoke to supply the actuated valve for your automated instrument and process systems, or for applications where manual control is difficult or not possible.



Application & Buyers Guide



90° UNIDIRECTIONAL ELECTRICALLY OPERATED FOR BALL VALVES

Low cost electric actuator is designed for unidirectional 90° control of Hoke Flomite®, Multimite®, and Rotoball® valves. Select from weather-proof models for 115 VAC or 24 VDC service. Position Indicator switches are standard.



180° UNIDIRECTIONAL ELECTRICALLY OPERATED FOR 3-way BALL VALVES.

These 115 VAC (weather-proof) and 24 VDC (weather-proof) actuators provide 180° unidirectional control of Hoke Selectomite® 3-way ball valves. Position indicator switches are standard.



90° REVERSIBLE ELECTRICALLY OPERATED FOR 3-way BALL VALVES

This reversible 115 VAC weather-proof actuator is recommended for 90° incremental positioning of Hoke Selectomite® 3-way ball valves. Position indicator switches are standard.



4-POSITION UNIDIRECTIONAL ELECTRICALLY OPERATED FOR 5-WAY BALL VALVES

Designed for the unidirectional 90°, 180°, or 270° positioning of Hoke Multimite® 5-way ball valves. Select fron 115 VAC (weather-proof) or 24 VDC (weather-proof) models. Position indicator switches are standard.



METERING VALVE ACTUATORS – ELECTRICALLY OPERATED

These 115 VAC weather-proof actuators provide positioning or shut-off of Hoke 2300 series, Milli-Mite® 1300 series and Micromite® 1600 series metering valves. Models come with limit switches or feedback potentiometers.

Application & Buyers Guide

Voltage 115 VAC/60 Cycle 24 VDC Rated Current (Full Load) 1.6 Amps 0.63 Amps Power Consumption (Full Load) .57 Watts 15 Watts Torque Output 40 In. lbs. .40 In. lbs. Output Speed. 6 RPM .6 RPM Cycle Time 2.5 Seconds Max for 90° Operation	
	Page 4
Power 115 VAC/60 Cycle 24 VDC Rated Current (Full Load) 1.6 Amps 0.63 Amps Power Consumption (Full Load) .57 Watts .15 Watts Torque Output 40 In. lbs. .40 In. lbs. Output Speed 6 RPM .6 RPM Cycle Time 5 Seconds Max for 180° Operation	
	Page 6
Voltage	
Rated Current (Full Load) 0.4 Amps´ Power Consumption (Full Load) 47 Watts A	
Torque Output	
Cycle Time 1.8 seconds Max for 90° Operation	
	Page 8
Power 115 VAC / 60 Cycle 24 VDC Rated Current (Pull Load) 1.6 Amps 0.63 Amp Power Consumption (Full Load) .57 Watts 15 Watts Torque Output 40 In. lbs. .40 In. lbs. Output Speed 6 RPM .6 RPM	
Cycle Time 2.5 seconds max for 90° Operation	
	Page 10
Voltage	
Power Consumption (Full Load) 2 Amps max. Torque Output 20 In. Lbs. Output Speed	
	Page 12
	9 <u>-</u>



Unidirectional Electrically Operated for 2- and 4-way Ball Valves 115 Volt AC & 24 Volt DC



Typical Applications

- Unidirectional 90° on-off control of Hoke Flomite® and Rotoball® 2-way valves, and unidirectional 90° positioning of Multimite® 4-way valves.
- Automated instrument and process systems.
- Test areas where remote control is mandatory.
- For inaccessible areas where manual operation is not possible.
- Anywhere separate low voltage power supply is required.

Technical Data

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	115 VAC/60 CYCLE*	24 VDC	
RATED CURRENT (FULL LOAD)	1.6 Amps	0.63 Amps	
POWER CONSUMPTION (FULL LOAD)	57 Watts	15 Watts	
TORQUE OUTPUT	40 in. lbs.		
OUTPUT SPEED	6 RPM		
CYCLE TIME	2.5 Seconds Max for 90° Operation		
WEIGHT	3 lbs. Weather-proof	2 lbs. Weather-proof	

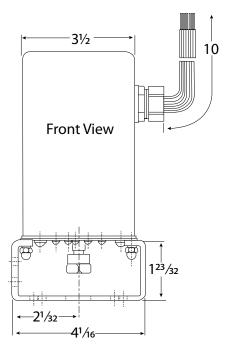
220 VAC / 50 Hz also available – consult factory

- Position indicator switches are standard in all models.
- Low operating cost power on during positioning only.
- Weather-proof enclosure.
- Long life 24 volt permanent magnet gear motors on direct current models.
- Thermal overload protection prevents motor burnout on AC models.
- Manual override allows manual valve operation in the event of a power failure.
- 1/2" weather-proof conduit connection is standard; grommet is furnished for field installation.
- Can be installed in any position.

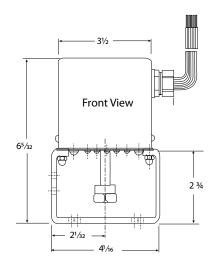


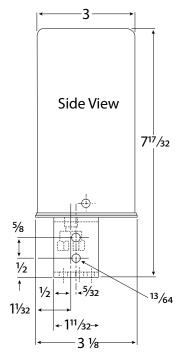
Outline Drawings Dimensions in inches

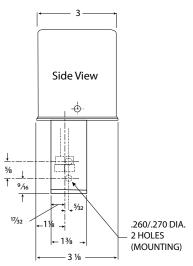




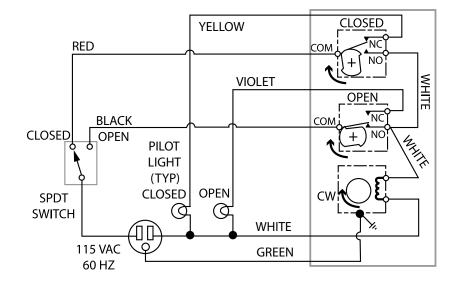
0112L2 0112L2F 0112L2T 0112L2P



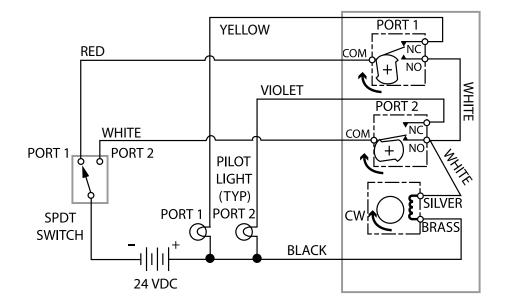




0112L2



0172L2



How to Order*

VOLTAGE	ACTUATOR DESCRIPTION	ACTUATOR ORDER NUMBER	FOR USE WITH VALVE SERIES	MOUNTING KIT NUMBER
	WEATHER-PROOF	0112L2	Flomite® 7115 & 71221	0112K7100
115 VAC	WEATHER-PROOF	0112L2	Rotoball® 7200¹	0112K7200
60 CYCLE	WEATHER-PROOF	0112L2	Multimite® 7911 & 7921 ²	0112K7900
	WEATHER-PROOF	0172L2	Flomite® 7115 & 71221	0112K7100
24 VDC WEATHER-PROOF	01/2L2	Rotoball® 7200¹ Multimite® 7911 & 7921	0112K7200 0112K7900	

^{*} To order a valve-actuator combination, specify the valve model number from Hoke's General Purpose Ball Valve Catalog 79066 followed by the actuator number. Example: Valve 7115G4Y with actuator 0112L2. For field assembly, the valve number, actuator number, and mounting kit number must be specified. Factory assembly is highly recommended.

FOR YOUR SAFETY

¹ 2-way ² 4-way



Unidirectional Electrically Operated for 3-way Ball Valves 115 Volt AC & 24 Volt DC



Typical Applications

- Unidirectional 180° position for switching between ports of 3-way Selectomite® valves.
- · Automated instrument and process systems.
- · Test areas where remote control is mandatory.
- For inaccessible areas where manual operation is not possible.
- Anywhere separate low voltage power supply is required.

Technical Data

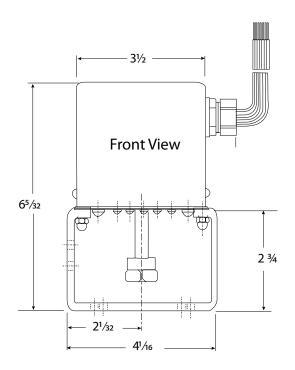
	115 VAC/60 CYCLE*	24 VDC	
RATED CURRENT (FULL LOAD)	1.6 Amps	0.63 Amps	
POWER CONSUMPTION (FULL LOAD)	57 Watts 15 Watts		
TORQUE OUTPUT	40 in. lbs.		
OUTPUT SPEED	6 RPM		
CYCLE TIME	5 Seconds Max for 180° Operation		
WEIGHT	3 lbs. Weather-proof	2 lbs. Weather-proof	

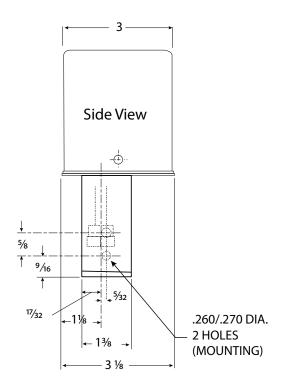
^{* 220} VAC / 50 Hz also available – consult factory

- Position indicator switches are standard in all models
- Low operating cost power on during positioning only.
- · Weather-proof enclosure.
- Long life 24 volt permanent magnet gear motors on direct current models.
- Thermal overload protection prevents motor burnout on AC models.
- Manual override allows manual valve operation in the event of a power failure.
- ½" weather-proof conduit connection is standard; grommet is furnished for field installation.
- Can be mounted in any position.
- Special High Tolerance NPT Thread



Outline Drawings Dimensions in inches



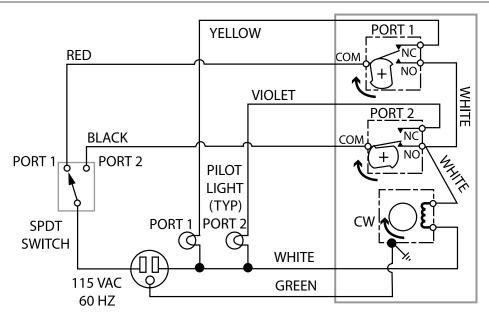


0112L2/0112L2F/0112L2T/0112L2P

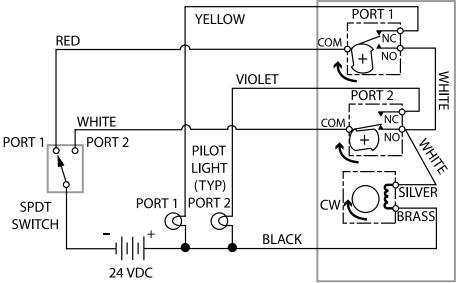
Wiring Diagrams

Dimensions in inches

0112L2F/0112L2T



0172L2F



How to Order*

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VOLTAGE	ACTUATOR DESCRIPTION	ACTUATOR ORDER NUMBER	FOR USE WITH VALVE SERIES	MOUNTING KIT NUMBER
115 VAC	WEATHER-PROOF	0112L2F	Selectomite [®] 7165, 7671, 7673	RS0112K7165
60 CYCLE	O CYCLE WEATHER-PROOF 0112L2T Selectomite® 7644	RS0112K7644		
24 VDC	WEATHER-PROOF	0172L2F	Selectomite® 7165, 7671, 7673	RS0112K7165
24 VUC			Selectomite® 7644	RS0112K7644

^{*} To order a valve-actuator combination, specify the valve model number from Hoke's General Purpose Ball Valve Catalog 79066 followed by the actuator number. Example: Valve 7165G4Y with actuator 0112L2F. For field assembly, the valve number, actuator number, and mounting kit number must be specified. Factory assembly is highly recommended.

FOR YOUR SAFETY



Reversible Electrically Operated for 3-way Ball Valves 115 VAC



Typical Applications

- 90° positioning of Hoke Selectomite® 71 & 76
 Series 3-way ball valves. Select any port in desired sequence.
- · Anywhere shutoff position is required.
- Automated instrument and process systems.
- Test areas where remote control is mandatory.
- For inaccessible areas where manual operation is not possible.

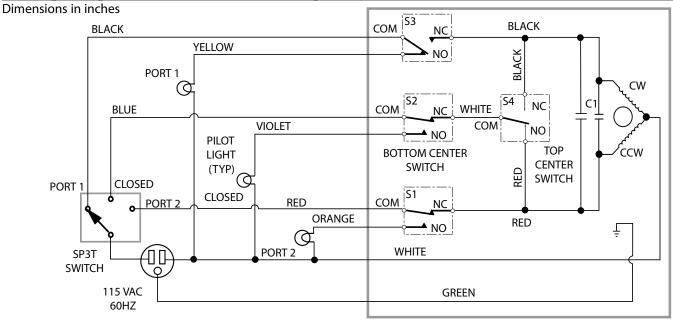
Technical Data

VOLTAGE	115 VAC/60 Cycle	
RATED CURRENT (FULL LOAD)	0.4 Amps	
POWER CONSUMPTION (FULL LOAD)	47 Watts	
TORQUE OUTPUT	40 in. lbs.	
OUTPUT SPEED	8.5 RPM	
CYCLE TIME	1.8 Seconds Max for 90° Operation	
WEIGHT	3 lbs.	

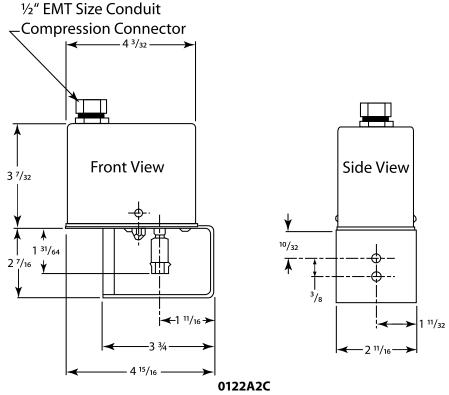
- Position indicator switches are standard in all models.
- Low operating cost power on during positioning only.
- · Reversible motor permits switching to desired port
- Thermal overload protection prevents motor burnout on AC models.
- Manual override allows manual valve operation in the event of a power failure.
- 1/2" weather-proof conduit connection is standard; grommet is furnished for field installation.
- Can be mounted in any position.
- Special High Tolerance NPT Thread



Wiring Diagrams & Outline Drawings



0122A2C



How to Order*

ACTUATOR ORDER NUMBER	FOR USE WITH VALVE SERIES*	MOUNTING KIT NUMBER
0122A2C	7165 7671 7673	0122K7165
	7644	0122K7644

Refer to Hoke's General Purpose Ball Valve Catalog 79066 71 & 76 Series for full details

FOR YOUR SAFETY



4 Position Unidirectional Electrically Actuated for 5-Way Ball Valves

115 VAC and 24 VDC



Typical Applications

- Unidirectional 90°, 180°, 270° positioning of the Hoke 5-way Multimite® 79 Series ball valves. Select any position in desired sequence.
- Automated instrument and process systems.
- Test areas where remote control is mandatory.
- For inaccessible areas where manual operation is not possible.
- Anywhere separate low voltage power supply is required.

Technical Data

	115 VAC/60 CYCLE	24 VDC	
RATED CURRENT (FULL LOAD)	1.6 Amps	0.63 Amps	
POWER CONSUMPTION (FULL LOAD)	57 Watts	15 Watts	
TORQUE OUTPUT	40 in. lbs.		
OUTPUT SPEED	6 RPM		
CYCLE TIME	2.5 Seconds Max for 90° Operation		
WEIGHT	3 lbs. Weather-proof	2 lbs. Weather-proof	

- Position indicator switches are standard in all models.
- Low operating cost power on during positioning only.
- · Weather-proof enclosure.
- Long lasting 24 volt permanent magnet gear motors on direct current models.
- Thermal overload protection prevents motor burnout on AC models.
- Manual override allows manual valve operation in the event of a power failure.
- ½" weather-proof conduit connection is standard; grommet is furnished for field installation.
- Can be mounted in any position.
- Special High Tolerance NPT Thread



Outline Drawings

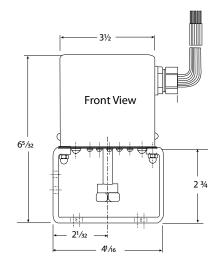
Dimensions in Inches

0112L2

0112L2F

0112L2T

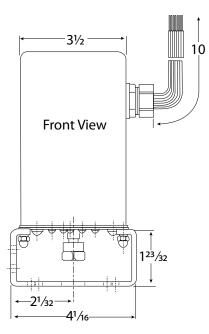
0112L2P

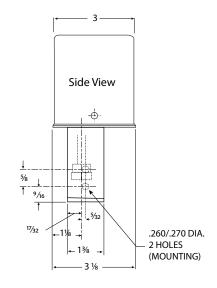


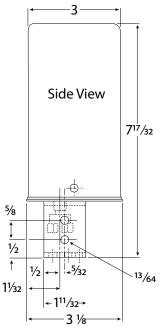
0172L2

0172L2F

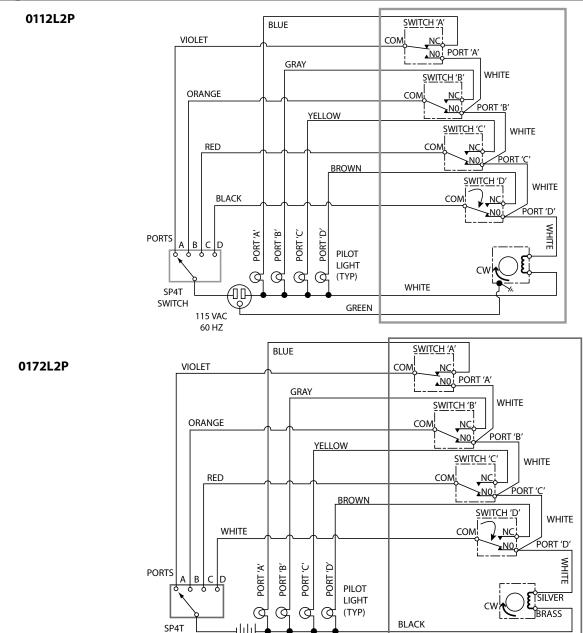
0172L2P







Wiring Diagrams



How to Order

VOLTAGE	ACTUATOR DESCRIPTION	ACTUATOR ORDER NUMBER	FOR USE WITH VALVE SERIES*	MOUNTING KIT NUMBER
115 VAC 60 Cycles	Weather-proof Unidirectional	0112L2P	Multimite® 5-Way 7931 & 7941	0112K7900
24 VDC	Unidirectional Weather-proof	0172L2P	Multimite® 5-Way 7931 & 7941	0112K7900

24 VDC

SWITCH

FOR YOUR SAFETY

^{*} Refer to Hoke's General Purpose Ball Valve Catalog 79066 Multimite® 79 Series for full details



Electrically Operated for Metering Valves 115 VAC



Typical Applications

- Positioning and shut-off for Hoke metering valves.
 Automated instrument and process systems.
- For inaccessible areas where manual operation is not practical or remote control is mandatory.
- · Programmed sampling and process control.

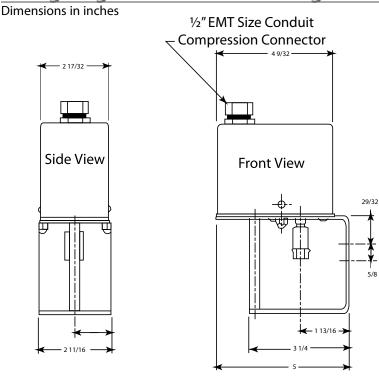
Technical Data

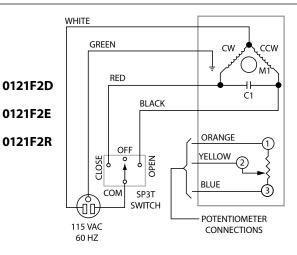
recilincal Date)	
VOLTAGE	115 VAC/60 Cycle	
RATED CURRENT (FULL LOAD)	2 Amps max.	
POWER CONSUMPTION (FULL LOAD)	19 Watts	
TORQUE OUTPUT	20 in. lbs.	
OUTPUT SPEED	10 RPM	
WEIGHT	2.8 lbs.	
FEEDBACK POTENTIOMETER	500 OHMS, 2 Watts, Precision 10 turn (geared 1:2 for 20 turn valves).	
PILOT LIGHT SWITCHES	10 Amps 125-250 VAC	

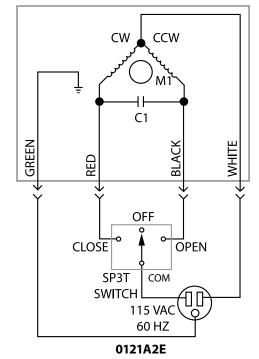
- Limit switch option controls valve travel between two set points and provides pilot light indication of position.
- Feedback potentiometer option provides means of obtaining valve position or system flow signal for automated close look control systems.
- Continuous stall gear motor.
- Low power consumption power required during positioning of valve only.
- ½" weather-proof conduit connection is standard;
 grommet is furnished for field installation
- · Special High Tolerance NPT Thread

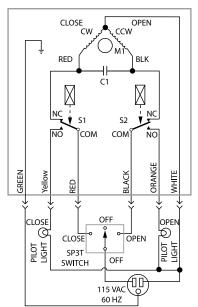


Wiring Diagrams & Outline Drawings









0121L2D, 0121L2E, 0121L2R

FOR YOUR SAFETY

IT IS SOLELY THE RESPONSIBILITY OF THE SYSTEM DESIGNER AND USER TO SELECT PRODUCTS SUITABLE FOR THEIR SPECIFIC APPLICATION REQUIREMENTS AND TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF THESE PRODUCTS. MATERIAL COMPATIBILITY, PRODUCT RATINGS AND APPLICATION DETAILS SHOULD BE CONSIDERED IN THE SELECTION. IMPROPER SELECTION OR USE OF PRODUCTS DESCRIBED HEREIN CAN CAUSE PERSONAL INJURY OR PROPERTY DAMAGE.

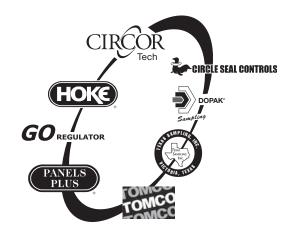
How to Order*

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ACTUATOR DESCRIPTION	ACTUATOR ORDER NUMBER	FOR USE WITH VALVE SERIES	MOUNTING KIT NUMBER
115 VAC WEATHER-PROOF	0121A2E	2300**	0121K2300
	0121A2D	Milli-Mite® 1315, 1325, 1335, 1345	0121K1300
	0121A2R	Micromite® 1654, 1656, 1666	0121K1600
115 VAC WEATHER-PROOF WITH LIMIT SWITCHES	0121L2E	2300**	0121K2300
	0121L2D	Milli-Mite® 1315, 1325, 1335, 1345	0121K1300
	0121L2R	Micromite® 1654, 1656, 1666	0121K1600
115 VAC	0121F2E	2300**	0121K2300
WEATHER-PROOF WITH FEEDBACK POTENTIOMETER	0121F2D	Milli-mite® 1315, 1325, 1335, 1345	0121K1300
	0121F2R	Micromite® 1654, 1656, 1666	0121K1600

To order a valve-actuator combination, specify the valve model number from Hoke's Metering Valve Catalog 79013 followed by the actuator number. Example: Valve 2315G4Y with actuator 0121F2E. For field assembly, the valve number, actuator number, and mounting kit number must be specified. Factory assembly is highly recommended.

** Actuators may not close 2300 Series valves leak tight above 1500 psig (103 barg).





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CIRCOR Instrumentation Technologies

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CIT markets primarily to the petrochemical, refining, power generation, food and beverage, semiconductor, and pharmaceutical industries, and to OEM's. CIT separates itself from the competition by offering highly engineered components manufactured to exacting standards and a variety of custom options.