



Reference Document

RD-03

Gaseous Fire Suppression System Actuators

Version 2, May 2025

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Document History

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1.1	Approved	Initial version.	December 2013
2	Approved	Updated branding and updated content.	May 2025

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Introduction

Identifying actuators used on gaseous suppression system cylinders, and making sure they are in the “set” position prior to installation is critical to working safely with gaseous cylinders. Technicians need to be able to:

- Identify whether an actuator is resettable or not
- Recognise if the actuator is in the “fired” or “set” position
- Recognise any potential danger in handling the actuator
- Select and use the correct resetting tool
- Prevent accidental discharge of the cylinder which could cause injury to yourself and others and releasing the gas to atmosphere.

Note: Discharge of ozone depleting substances and synthetic greenhouse gases (ODS & SGG) is controlled by the Ozone Protection and Synthetic Greenhouse Management Act. Discharge of these scheduled substances, unless in response to a fire or otherwise approved by the Fire Protection Industry (ODS & SGG) Board, is an offence.

This document has been published to assist technician’s identify types of actuators used on the most commonly installed gaseous suppression systems in Australia. It is not intended to be used in place of manufacturer’s guidelines, recommendations or procedures. The manufacturer, or manufacturer’s representative, should always be contacted for information on the resetting or maintenance of their actuators.

This Reference Document provides a list of actuators and includes details such as:

- Depictions of the “set” and “fired” positions
- Identification as to whether they are or are not resettable
- Details of resetting tools (where required)
- Manufacturer/Supplier
- Names and Part numbers.

What if the actuator I have is not listed here?

If the cylinder and actuator which you need information on is not listed in this document, please contact the manufacturer or supplier for information.

Also, FPA Australia encourages manufacturers/suppliers to contact the Association with details of their actuators not provided in this version of the document so that this list can be updated accordingly. Please send any information or queries about this document to **technical@fpaa.com.au**.

Gaseous Suppression System Cylinder Actuators

The following is a list of actuators for commonly installed gaseous fire suppression systems in Australia.

Amerex / Janus Fire Systems — Electric Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			Name: Electric Valve Actuator Part number: 18481 Resettable: Yes Reset Tool required: No Used on: SV, MV and LV Cylinders Applicable cylinder types and sizes: 40lb, 80lb, 130lb, 250lb, 420lb, 600lb, 900lb and 1000lb Other information: N/A

Ansul — HF Electric Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: HF Electric Actuator Part number: 73327 Resettable: Yes Reset Tool required: Yes (Part No. 75433) Used on: 150 and 200 bar Inergen™ and High Pressure CO₂ Applicable cylinder types and sizes: CV98 cylinder valves Other information: Used in conjunction with Booster Actuator,

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			part no. 428949

Ansul — Booster Actuator

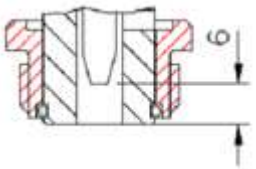
Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: Booster Actuator Part number: 428949 Resettable: Yes Reset Tool required: Yes (Part No. 429847) Used on: 150 and 200 bar Inergen™ and High Pressure CO₂ Applicable cylinder types and sizes: CV98 cylinder valves Other information: N/A

Ansul — CV90/CV98 Electric Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: CV90/CV98 Electric Actuator Part number: 426876 / 423684 Resettable: No Reset Tool required: No Used on: 150 and 200 bar Inergen™ and High Pressure CO₂ Applicable cylinder types and sizes: CV90 and CV98 cylinder valves Other information: These actuators use a non-resettable Metron Protractor which must be replaced after actuation or every 10

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			years. These actuators are now obsolete.

Chubb — C200 Solenoid Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
 (shown with stackable manual strike knob actuator fitted)		Firing pin is flush with base of actuator when fired	Name: C200 Solenoid Actuator 24V Part number: 49.700.02 Resettable: Yes Reset Tool required: No Used on: C200 Cylinders Applicable cylinder types and sizes: All sizes Other information: N/A

Chubb — TF12 Manual/Electric Actuator

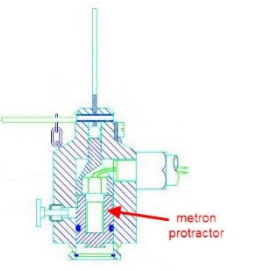
Photo	Photo (reset position)	Photo (fired position)	Actuator description
	 Cross section of actuator body with the metron protractor highlighted	 Photo of fired metron removed from actuator housing	Name: TF12 manual/electrical actuator Part number: complete actuator – 86712, metron replacement only – 86758 Resettable: No Reset Tool required: N/A Used on: Chubb TF12 CO₂ cylinders Applicable cylinder types and sizes: All TF12 CO₂ cylinders

Photo	Photo (reset position)	Photo (fired position)	Actuator description
	 Photo of unused metron		Other information: This actuator uses a non-resettable metron protractor. After use the metron protractor housed inside the actuator body must be replaced.

Kidde — FM-200/NOVEC EX Proof stackable electric actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: Electric Control Head, Stackable, 24 VDC (Ex. Proof) Part number: 48650001 Resettable: Yes Reset Tools required: No. The control head can be reset by pushing in the actuating pin until it clicks into the SET position, the actuating pin must be fully retracted before installing the control head onto the valve actuation port. Resetting Tool PN 81-100000-AUS can be used to reset this control head (pictured below).  Used on: Only on ECS series FM-200 and NOVEC cylinders on 1½"

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			and 2" valves. Cannot be used on 3" valves as this control head doesn't have sufficient force to activate 3" valves. Applicable cylinder types and sizes: ECS series FM-200 and NOVEC cylinders: • 10lb, 20lb, 70lb, 125lb cylinders (1½" valve) • 200lb and 350lb cylinders (2" valves) Other information: N/A

Kidde — FM-200/NOVEC/CO₂ Flame Proof and EX Proof stackable electric actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin (highlighted) protrudes from body when fired	Name: Electric Control Head, Stackable, 24 VDC (Ex. Proof and Flame Proof) Part number: 81-100000-001 Resettable: Yes Reset Tool required: Yes Resetting tool model 81-100000-AU5 (pictured below).  Used on: • All ECS series

Photo	Photo (reset position)	Photo (fired position)	Acuator description
			FM-200 cylinders and NOVEC cylinders • All Kidde CO₂ cylinders Applicable cylinder types and sizes: • 10lb, 20lb, 70lb, 125lb, 200lb, 350lb, 600lb and 900lb FM-200/NOVEC cylinders • 25lb, 35lb, 50lb 75lb and 100lb CO₂ cylinders Other information: Stackable with manual actuator P/N 870652

Kidde — FM-200/NOVEC/CO₂ electric actuator (standard)

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: Electric Control Head, 24 VDC Part number: 890181 Resettable: Yes Reset Tool required: No, use flat head screwdriver on spot indicated in red on the photo to reset. Used on: • All ECS and ADS series FM-200 and NOVEC cylinders on 1½", 2" and 3" valves • All Kidde CO₂ cylinders

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			Applicable cylinder types and sizes: • 10lb, 20lb, 70lb, 125lb, 200lb, 350lb, 600lb and 900lb FM-200/NOVEC cylinders • 25lb, 35lb, 50lb, 75lb and 100lb CO₂ cylinders Other information: Local manual release lever is provided for manual operation.

Kidde — FM-200/NOVEC/CO₂ Cable operated actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: Cable Operated Control Head Part number: 979469 Resettable: Yes Reset Tool required: No, remove cover and move roller to other end to reset. Used on: Systems designed for manual operation only. Operated either remotely from a cable manual pull station or locally using the manual level on control head. Usable on: • All ECS and ADS series FM-200 and NOVEC cylinders on 1½", 2" and 3" valves

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			• All Kidde CO₂ cylinders Applicable cylinder types and sizes: • 10lb, 20lb, 70lb, 125lb, 200lb, 350lb, 600lb and 900lb FM-200/NOVEC cylinders • 25lb, 35lb, 50lb, 75lb and 100lb CO₂ cylinders Other information: N/A

Kidde — FM-200/NOVEC/CO₂ Pressure operated actuator

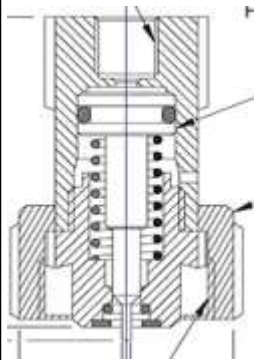
Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: Pressure Operated Control Head Part number: 878737 Resettable: Yes Reset Tool required: No, reset by pushing back the pin to flush. Used on: Systems designed for pressure actuation using pressure from master cylinder is provided with Electric actuator. Usable on: • All ECS and ADS series FM-200 and NOVEC cylinders on 1½", 2" and 3" valves

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			- All Kidde CO₂ cylinders Applicable cylinder types and sizes: 10lb, 20lb, 70lb, 125lb, 200lb, 350lb, 600lb and 900lb FM-200/NOVEC cylinders 25lb, 35lb, 50lb, 75lb, and 100lb CO₂ cylinders Other information: N/A

Kidde — FM-200/NOVEC/CO₂ Lever operated actuator

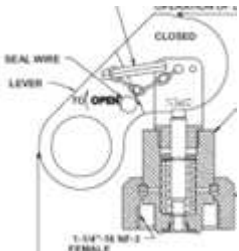
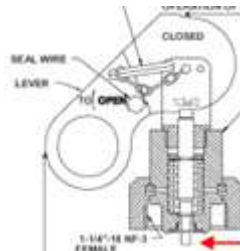
Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin (highlighted) protrudes from body when fired	Name: Lever Operated Control Head Part number: 870652 Resettable: Yes Reset Tool required: No, reset by pushing back the pin to flush. Used on: Systems designed for manual actuation by operating the lever. Usable on: All ECS and ADS series FM-200 and NOVEC cylinders on 1½", 2" and 3" valves

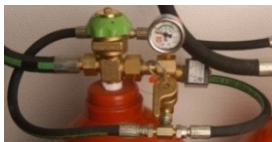
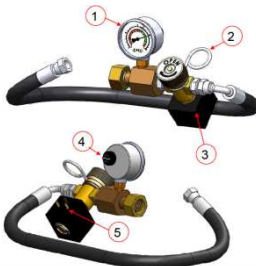
Photo	Photo (reset position)	Photo (fired position)	Actuator description
			- All Kidde CO₂ cylinders Applicable cylinder types and sizes: 10lb, 20lb, 70lb, 125lb, 200lb, 350lb, 600lb and 900lb FM-200/NOVEC cylinders 25lb, 35lb, 50lb, 75lb and 100lb CO₂ cylinders Other information: N/A

Kidde — FM-200/NOVEC/CO₂ Electric and Cable operated actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		 Firing pin protrudes from body when fired	Name: Electric and Cable Operated Control Head Part number: 895630 Resettable: Yes Reset Tool required: No, use flat head screwdriver Used on: System designed for both electric actuation and remote cable operated pull station actuation. Usable on: - All ECS and ADS series FM-200 and NOVEC cylinders on 1½", 2" and 3" valves - All Kidde CO₂ cylinders

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			Applicable cylinder types and sizes: • 10lb, 20lb, 70lb, 125lb, 200lb, 350lb, 600lb and 900lb – FM-200/NOVEC cylinders • 25lb, 35lb, 50lb, 75lb and 100lb CO₂ cylinders Other information: N/A

Kidde/Ginge Kerr — Argonite electric solenoid valve

Photo	Photo (reset position)	Photo (fired position)	Actuator description
	 1. Pressure gauge 2. Securing pin for manual release handle 3. Solenoid coil 4. Electronic connection for low pressure monitoring 5. Electric connection for solenoid coil	N/A	Name: Release Unit Part number: 01-7172-1300 – Release Unit, 300 bar system 6-01-7172-8300 – Release Unit, 300 bar C60 system Resettable: Yes Reset Tool required: No, this actuation device is self-resetting once power is taken away from the solenoid. Used on: Kidde Argonite 300 bar systems. Applicable cylinder types and sizes: 80L, 300 bar Other information: N/A To test: Disconnect the coil unit from the solenoid valve, initiate the actuation circuit and verify power at the coil.

Kidde Natura - IG541, IG55 Electric/Manual Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
		N/A	Name: Release Unit Part Number: 38-400001-003 Resettable: Yes Reset Tool Required: No, release unit self-resets when solenoid coil is not powered Used on: All Kidde Natura 300bar Systems Applicable Cylinder Types and Sizes: 80 Lt, 300bar, Natura Valve. To Test: This release unit and valve are tested in situ. See Kidde Manual PN 06-237518-001 Rev. AB for procedure.

LPG — 24VDC Solenoid

Photo	Photo (reset position)	Photo (fired position)	Actuator description
 	N/A	N/A	Name: 24VDC Solenoid Part number: 3023024B Resettable: Yes Reset Tool required: No Used on: iFlow & FM-200 Applicable cylinder types and sizes: Nitrogen Plot and FM-200 modular cylinders Other information: Refer to LPG Manuals

LPG — Manual Release

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			Name: Manual Release Part number: 30180APB Resettable: Yes Reset Tool required: No Used on: iFlow & FM-200 Applicable cylinder types and sizes: Nitrogen Pilot and FM-200 modular cylinders Other information: Refer to LPG Manuals

LPG — Activation Cones

Photo	Photo (reset position)	Photo (fired position)	Actuator description
 	 	 	Name: Activation cones Part number: Several (contact LPG) Resettable: Yes Reset Tool required: No Used on: iFlow & FM-200 Applicable cylinder types and sizes: iFlow and FM-200 slave cylinders Other information: Refer to LPG Manuals

Tyco — Sapphire/FM-200 Electric Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			Name: Removable electric actuator Part number: 304.205.010 Resettable: Yes Reset Tool required: Yes, supplied with actuator Used on: Sapphire and FM-200™ systems Applicable cylinder types and sizes: 4.5 to 343 litre containers with 1", 2" or 3" container valves Other information: N/A

Tyco — Sapphire/FM-200 Electric Actuator with Placement Monitoring

Photo	Photo (reset position)	Photo (fired position)	Actuator description
			Name: Electric Actuator Part number: 304205030 Resettable: Yes Reset Tool required: Yes, attached to actuator Used on: Sapphire and FM-200™ systems. Applicable cylinder types and sizes: 4.5 to 343 litre containers with 1", 2" or 3" container valves. Other information: Incorporates placement monitoring switch

Wormald – Inerex® Electromagnetic Actuator

Photo	Photo (reset position)	Photo (fired position)	Actuator description
	 	  Note: Red indicator is visible at the top of the pin once the actuator has operated.	Name: Electromagnetic Actuator Part number: B04425148 Resettable: Yes Reset Tool required: Yes, part number 029210064  Used on: Inerex inert gas systems Applicable cylinder types and sizes: 200 and 300 bar, 80 and 140 litre cylinders Other information: N/A

Manufacturer/Supplier Contacts

Contact details for the suppliers included in the listing above are as follows:

Supplier	Website	Phone
Chubb Fire and Security	chubbfs.com/au-en	13 15 98
Delta Fire Australasia Pty Ltd (Amerex/Janus Fire System)	www.deltafire.com.au	1800 335 823 473
Kidde Australia	www.kidde.com/fire-safety/en/au	1800 654 435
LPG Fire Australia	www.lpgfire.com.au	07 5522 1953
Tyco Fire Protection Products (Supplier for LPG Fire Australia)	www.tyco-fire.com	03 9313 9712
Wormald (Ansul, Tyco)	www.wormald.com.au	133 166