

# Cylinder Valve Assembly Series



Designed with:  
3M™ Novec™ 1230  
Fire Protection Fluid

## CV, PCV, FCV and MCV series

### CV Series (Cylinder/Valve)

Cylinder/Valve  
Assembly with:

- Cylinder & Valve



### PCV Series (Pre-Engineered Nozzle/Cylinder/Valve)

Cylinder/Valve  
Assembly with:

- Cylinder & Valve
- Cylinder Strap
- 24V DC Electric Solenoid  
- Not ASCO
- Nozzle (Pre-engineered),  
Sidewall or Central



### FCV Series (Frame/Cylinder/Valve)

Frame Cylinder/Valve  
Assembly with:

- Cylinder & Valve
- Cylinder Strap
- 24V DC Electric Solenoid  
- Not ASCO
- Nozzle (Pre-engineered),  
sidewall or central
- Modular Frame
- Pre-engineered Piping/  
Fittings



### MCV Series (Modular/Cylinder/Valve)

Modular Cylinder/Valve  
Assembly with:

- Cylinder & valve
- Cylinder Strap
- 24V DC Electric Solenoid  
- only EA-45 listed w/UL  
- Not ASCO
- Nozzle (pre-engineered),  
sidewall or central
- Agent Release Control  
Panel
- 2- Battery
- 1- Photoelectric Detector,  
24 VDC w/ Base
- 1- Ionic Detector, 24 VDC  
w/ Base
- Combination Horn/Strobe,  
24 VDC
- Strobe Ceiling Mount
- Modular Frame
- Pre-engineered Piping/  
Fittings



# Cylinder Valve Assembly Series



Designed with:  
3M™ Novec™ 1230  
Fire Protection Fluid

**Models: 40, 76, 164, 322, 601 and 910**

## Cylinder Valves:

The cylinder valves are of a pressure-seated high flow rate design, in order to meet the rapid discharge time specified in NFPA 2001. Each has a brass body, a brass piston with resilient seat, a pressure releasing pilot check, a safety disc assembly, a pressure gauge, and an electric solenoid valve. This relieves the pressure above the piston and permits the piston to travel upward, thus fully opening the valve and permitting the agent to discharge through the outlet. The discharge outlet is fired with an anti-recoil plug, which is a safety device to prevent violent movement of the cylinder in the event of discharge while the cylinder valve is not connected to the piping system structure.

Each Novec™ 1230 fluid fill and use shall be in accordance with the instructions in the engineered or pre-engineered system design manual as required by UL Listing or FM approval.

## Architecture/Engineering Specifications:

- Filled at factory in single lb. increments
- High flow rate valve
- Electric solenoid operation
- Novec 1230 Clean Agent Extinguishing Fluid
- Optional:
  - Liquid Level Indicator
  - Pneumatic Actuation
  - Manual Actuation
  - Pressure Switch
    - Low Pressure
    - Operational

## Key Features

All sizes are charged with agent and pressurized with nitrogen to 360 psig (25 bar) or 500 psig (34.5 bar) at 70°F/21°C. They are manufactured, tested, and marked in accordance with D.O.T. and T.C. specifications: 4BA500 or 4BW500 or TPED for the various sizes.



Cylinder Sizes	Allowable Fill (lbs)	Part Numbers	Listings/Approvals	
			360 PSI/25 Bar	500 PSI/34.5 Bar
40	16-40	CV140069	UL/ULC	FM, UL/ULC
76	31-76	CV140079	UL/ULC	FM, UL/ULC
164	66-164	CV14817	UL/ULC	FM, UL/ULC
322	129-322	CV140057	UL/ULC	FM, UL/ULC
601	241-601	CV14813	UL/ULC	FM, UL/ULC
910	390-910	CV140107	UL/ULC	FM, UL/ULC