



ECUATEPI S.A.

DATASHEET

**FIRE
ENGINEERING**

EXTINGUISHERS

1200 lb Clean Agent Cylinder

DESCRIPTION

The OCI 91200-E 1200 lb Cylinder is filled in one pound increments from a minimum of 519 lbs to a maximum of 1211 lbs, to meet the exact amount of agent required. The cylinder is then super pressurized with dry nitrogen to 360 psig at 70°F to provide extinguishment in 10 seconds or less. The 4" Stainless Steel valve has excellent flow characteristics allowing long pipe runs and greater area coverage. This is the largest discharge cylinder currently manufactured and designed for very large applications. Use ORIENT design software version OCI 3.10. The 1200 lb Cylinder is manufactured, tested and stamped in accordance with DOT 4BW500.

Temperature Limits:

32°F (-17°C) to 130°F (54.4°C)

System Operating Pressure:

360⁺ PSI at 70F (25.3 kg/cm² at 21°C)

The cylinder is equipped with a 4" stainless steel back pressure type valve and a 4" victaulic male outlet. A piston in the valve bore is equipped with a rubber seal that keeps the Clean Agent under pressure within the cylinder. A small hole in the piston allows cylinder pressure to equalize on both sides of the piston. Since the area at the top of the piston is greater than the area at the bottom of the piston, the net force seals the piston against the valve discharge outlet. When the cylinder pressure on the top of the piston is relieved by means of automatic or manual activation, there is only cylinder pressure acting against the piston seal, and the piston slides to its full open position, allowing cylinder discharge through the distribution piping network.

Attached to the bottom of the cylinder valve is a siphon tube. The siphon tube is straight, allowing the cylinder installation to be vertically upright only (valve on top). A single cylinder installation will use a top plug or a top plug adapter. The electric solenoid used may be a 24 volt 15 watt (OCI 50025-2) or a 12 volt 15 watt (OCI 50025-1).

On the cylinder valve is a 1/8" pipe outlet stamped "P". This outlet transmits cylinder pressure to an optional low pressure supervisory switch, which when used, supervises the internal cylinder pressure. The cylinder is equipped with a 360 psi pressure gauge for quick visual INSPECTION. An optional liquid level indicator is available and is highly recommended for easy maintenance.

Another 1/8" N.P.T. pipe outlet on the cylinder valve stamped "M" is available for use as a pressure source to drive the piston actuator slave control heads on a multiple cylinder system or to actuate a pressure operated switch. In multiple cylinder installations, a maximum of (6) 1200 lb. slave cylinders can be utilized by using the combination 4" stainless steel flex hose and check valve (Part # OCI 91231) when use with manifold.



Part Number	Cylinder Size	Max Fill at 70 °F/21°C	Max Fill at 33 °F/1°C	Valve Size	Diameter	Total Height	Height to Discharge Outlet
OC91200-E	1200 LB	1211 LB	519 LB	4" Valve	30.00"	70-15 1/4"	62-1 1/4"

Cylinder Bracket:

The cylinder bracket are manufactured of stainless steel bands formed to the radius of the cylinders with flanges, for bolting to continuous slot metal framing channel of 12 gauge steel with corrosion resistant paint or galvanized. The channel is to be supplied by the installer. The cylinder bracket must be secured to a surface that the bracket will withstand a load up to 5 times the cylinder weight. This precaution is to have the bracket safely support the weight of the cylinder and the reaction force of the HFC-227ea Clean Agent when discharge.



Part Number	Diameter	A	B	C	D	E
OC160790	30.00"	29.125"	30.250"	31.250"	1.375"	14.00"
OC160772	30.00"	4.500"	10.500"	9.500"	1.375"	N/A

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