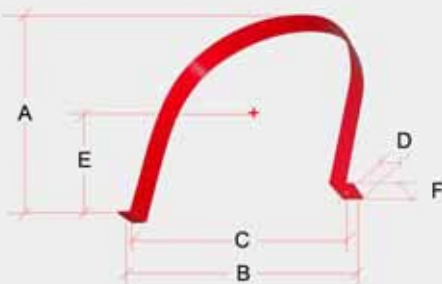




### Cylinder Dimension

Part Number	A	B	C
CP90035-E	10"	16.5"	20.5"
CP90070-E	10"	28"	32.5"
CP90150-E	12.8"	37"	42"
CP90250-E	16"	38"	43.5"
CP90375-E	16"	55.5"	62.5"
CP90560-E	20"	54"	61"



### Description

The Clean Agent cylinders are manufactured, tested and stamped in accordance with DOT 4BW500 or DOT 4B500. All cylinders are equipped with back pressure type valve. A piston in the valve bore is equipped with a rubber seal that keeps the HFC-227ea Clean Agent under pressure within the cylinder. A small hole in the piston allows cylinder pressure to be equalized 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, which is straight and runs from the top of the cylinder to the bottom of the cylinder. The cylinder must be installed in an upright position (valve on top).

There is a 1/8" NPT outlet stamped "P" on the cylinder valve. This outlet transmits cylinder pressure to an optional low pressure supervisory switch, which when used, monitors the internal pressure of the cylinder. Another 1/8" NPT outlet stamped "M" on the cylinder valve is available for use as a pressure source to drive the piston actuators on a multiple cylinders system or to actuate a pressure operated switch in the event of the cylinder discharge.

### Cylinder Model

HFC-227ea Clean Agent cylinders are available in the following capacities:

Part Number	Cylinder Size	Max Fill at 70 lb/ft <sup>3</sup>	Min Fill at 30 lb/ft <sup>3</sup>	Valve Size
CP90035-E	35 LB	35 LB	16 LB	1" Valve
CP90070-E	70 LB	71 LB	31 LB	1" Valve
CP90150-E	150 LB	152 LB	69 LB	1 1/2" Valve
CP90250-E	250 LB	253 LB	109 LB	1 1/2" Valve
CP90375-E	375 LB	379 LB	163 LB	2 1/2" Valve
CP90560-E	560 LB	561 LB	241 LB	2 1/2" Valve

**Note:** Each of the basic sizes can be filled with one pound increments to meet the exact amount of HFC-227ea Clean Agent required, within their fill ranges.

**Temperature Range:** 32°F (0°C) to 130°F (54.4°C)

**System Operating Pressure:** 360 psi at 70°F (25.3 kg/cm<sup>2</sup> at 21.1°C)

### Cylinder Bracket

The cylinder bracket is manufactured from stainless steel band formed to the radius of the cylinder with flanges for bolting to the continuous slot metal framing channel of 12-gauge steel with corrosion resistant paint or galvanized. The channel must 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 of the cylinder weight. This precaution is to have the bracket safely supports the weight of the cylinder and the reaction force of the HFC-227ea Clean Agent when discharge.

Part Number	Cylinder O.D.	A	B	C	D	E	F	Bracket Part #
CP90035-E	10.00"	9.875"	13.25"	11.75"	1.5"	4.75"	2"	CP50139
CP90070-E	10.00"	9.875"	13.25"	11.75"	1.5"	4.75"	2"	CP50139
CP90150-E	12.75"	12.50"	16.00"	14.50"	1.5"	6.50"	2"	CP60780
CP90250-E	16.00"	15.93"	19.25"	17.75"	1.5"	7.75"	2"	CP60760
CP90375-E	16.00"	15.93"	19.25"	17.75"	1.5"	7.75"	2"	CP60760
CP90560-E	20.00"	19.93"	23.25"	21.75"	1.5"	9.75"	2"	CP60770

For the 35 lb. to 250 lb. cylinders - One cylinder bracket must be used

For the 375 lb. to 560 lb. cylinders - Two cylinder brackets must be used