

Kidde ECS Fire Suppression System Component Description



Effective: June 2014

K-90-9046

3-Inch 487 Series Discharge Valve P/N 90-170000-000

FEATURES

- *Large Capacity Agent Cylinder*
- *Grooved Fitting Connection*
- *FM Approved*
- *UL Listed*
- *RoHS Compliant*

DESCRIPTION

The Kidde ECS System 3-inch 487 series valve is designed to discharge the clean agent. The 3-inch valve is installed on the 600 lb. and 900 lb. agent cylinders, to facilitate high capacity discharge flow from these cylinders. The pressure relief device for the 3-inch valve is located on the cylinder head.

OPERATION

The Kidde ECS System 3-inch 487 series valve can be operated by all existing Kidde control heads, except the 48650001 electric control head. The 48650001 control head does not have the capability of operating the 3-inch valve and must not be used on this component.

Actuation of the control head displaces the valve piston and agent (in the form of compressed liquid) is allowed to flow through the discharge port of the valve.

INSTALLATION

The valve must be installed in the cylinder neck ring prior to cylinder filling. Upon assembly of the valve and siphon tube arrangement the valve should be torqued to 50-55 Ft-lb. (68-74.5N-m).

ORDERING INFORMATION

The 3-inch valve can be purchased as a separate component to replace existing valves on new style 600 lb. cylinders (sold after 8/01) and 900 lb. cylinders. The part number for the valve is 90-170000-000. Refer to the parts table of this sheet for replacement parts when overhauling the cylinder valve.

SPECIFICATION

| | |
|-------------------------------------|--|
| Valve body: | Brass |
| Piston: | Brass |
| Finish: | Natural |
| Valve seat: | Rubber |
| Nominal operating pressure: | 360 psig at 70°F (2.48 Mpa at 21°C) |
| Operating temperature range: | 32 to 130°F (0 to 54°C) |
| Weight: | 46 lb. (21 kg) |
| Outlet: | 3-inch groove fitting |

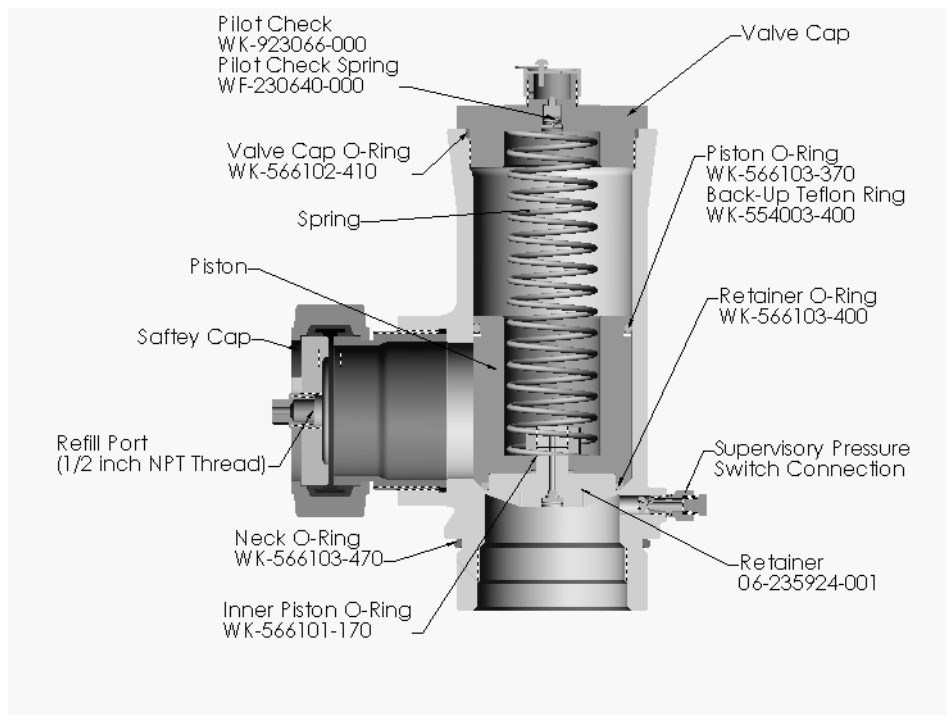


RECHARGE/REPLACEMENT PARTS

The following components are required to be replaced after the cylinder valve has discharged or if existing components show signs of damage or wear and tear. Refer to the Design Installation Operation and Maintenance manual for full instructions on valve overhaul and maintenance.

| Description | Part Number |
|----------------------|-------------|
| O-ring, Cap | 566102410 |
| O-ring, Piston | 566103370 |
| O-ring, Seat | 566103400 |
| O-ring, Neck | 566103470 |
| Pilot Check Assembly | 923066 |
| Back-up Ring | 554003400 |

DIAGRAM



COMPATIBILITY

| Series | For Use With |
|-------------------------------------|--------------|
| Kidde ECS HFC-227ea | X |
| Kidde ECS Advanced Delivery FM-200® | X |

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