

2-Inch Discharge Valve

FEATURES

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

DESCRIPTION

The Kidde Fire Systems 2-inch valve is designed to facilitate high capacity discharge flow from mid-range cylinders. Valves manufactured after April 2014 do not include the pressure relief device as that is located on the cylinder shoulder, not the valve.

OPERATION

The Kidde Fire Systems 2-inch valve can be operated by all existing Kidde Fire Systems control heads. Actuation of the control head displaces the valve piston, allowing agent to flow through the discharge port of the valve.

The valve must be rebuilt with all the o-rings replaced every 15 years or after a discharge.

INSTALLATION

The valve must be installed in the cylinder neck ring prior to filling the cylinder. Upon assembly of the valve and siphon tube arrangement the valve should be torqued to 100 - 110 ft-lbs (135.5 - 149.1 Nm).

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:	2-inch NPT fitting



DIAGRAMS

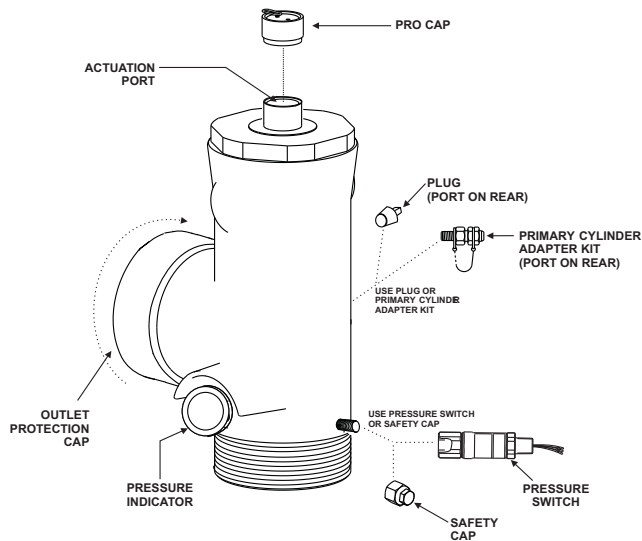


Figure 1. 2" Valve General Arrangement

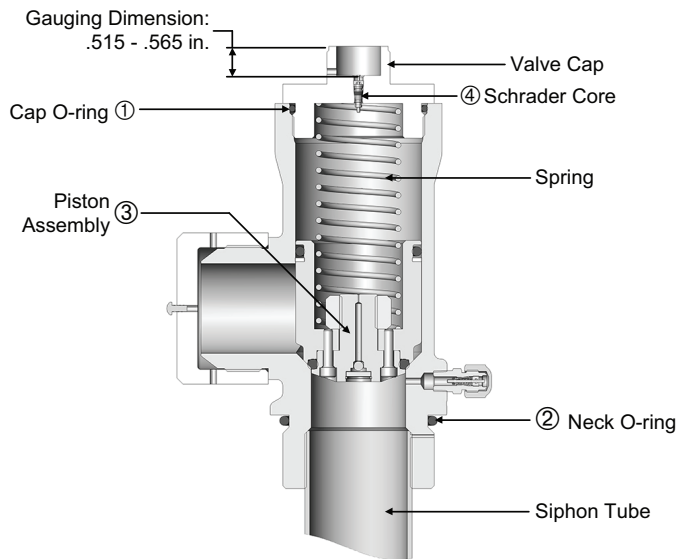


Figure 2. 2 in (50 mm) Valve

Table 1: 2 in (50 mm) Valve Components

Figure Item No.	Description	2" Valves Part Number
1	O-ring, cap	Included in Rebuild Kit
2	O-ring, neck	Included in Rebuild Kit
3	Piston Assembly	Included in Rebuild Kit
4	Schrader core	WK-220278-000
Note: This is not the re-build kit. For contents of the rebuild kit, see datasheet K-85-0503.		

ORDERING INFORMATION

The 2-inch valve can be purchased as a separate component to replace existing valves on all 200, 350, and 450 lb. cylinders. When ordering a replacement valve, please order the correct valve for the system. Using a valve that is not listed with the system will invalidate any agency approvals. The part number for the valve is listed in the following table:

Part Number	Description
85-154000-550	2" Valve for Kidde Fire Systems ECS-500™ systems using Fluoro-K™ Fire Suppression Clean Agent
85-150000-550	2" Valve for Kidde Fire Systems ECS-500™ systems using 3M™ Novec™ 1230 Fire Protection Fluid
85-154000-500	2" Valve for Kidde Fire Systems ADS™ using Fluoro-K™ Fire Suppression Clean Agent
85-150000-500	2" Valve for Kidde Fire Systems ADS™ using 3M™ Novec™ 1230 Fire Protection Fluid
85-154000-510	2" Valve for Kidde Fire Systems ECS™ using Fluoro-K™ Fire Suppression Clean Agent
85-150000-510	2" Valve for Kidde Fire Systems ECS™ using 3M™ Novec™ 1230 Fire Protection Fluid
45-150000-001	2" Valve for Kidde Fire Systems ECS™ using 3M™ Novec™ 1230 Fire Protection Fluid with Safety Burst Disc on the Valve
85-150000-530	2" Valve for Kidde Fire Systems ECS™ using HFC-227ea Agent
90-150000-000	2" Valve for Kidde Fire Systems ECS™ using HFC-227ea Agent with Safety Burst Disc on the Valve
85-150000-520	2" Valve for Kidde Fire Systems ADS™ using HFC-227ea Agent
85-150200-000	2" Valve Rebuild Kit

COMPATIBILITY

Series	DIOM P/N	Approvals
Kidde Fire Systems ECS-500™ System	06-237585-001	UL, ULC, FM
Kidde Fire Systems ECS-500™ Marine System	06-237589-001	UL, ULC, USCG
Kidde Fire Systems ADS™ for use with Fluoroketone Fire Suppression Agents	06-237256-001	UL, ULC, FM
Kidde Fire Systems ADS™ Marine for use with Fluoroketone Fire Suppression Agents	06-237257-001	UL, ULC, USCG
Kidde Fire Systems ADS™ with HFC-227ea Agent	06-236068-001	UL, ULC, FM
Kidde Fire Systems ADS™ Marine with HFC-227ea Agent	06-236595-001	UL, ULC, USCG
Kidde Fire Systems ECS™ 360 for use with Fluoroketone Fire Suppression Agents	06-236553-001	UL, ULC, FM
Kidde Fire Systems ECS™ 360 Marine for use with Fluoroketone Fire Suppression Agents	06-236559-001	UL, ULC, USCG
Kidde Fire Systems ECS™ 360 with HFC-227ea Agent	06-236115-001	UL, ULC, FM
Kidde Fire Systems ECS™ 360 Marine with HFC-227ea Agent	06-236225-001	UL, USCG

EXPORT INFORMATION (USA)

Jurisdiction: EAR
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