

Kidde Fire Systems Component Description

NEMA 4 and NEMA 7 NPT and Grooved Selector Valves

Effective: April 2023
K-85-2405 Rev AB

FEATURES

- For Approvals, see the “Compatibility” table.
- REACH and RoHS compliant

DESCRIPTION

Selector valves are used to distribute agent where multiple hazards are protected from the same or multiple banks of cylinders. These selector valves are 2-way ball valves with full bore, available in sizes to match 1, 1 1/2, 2, 3, and 4 inch pipes.

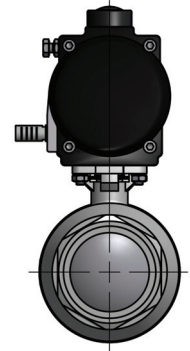
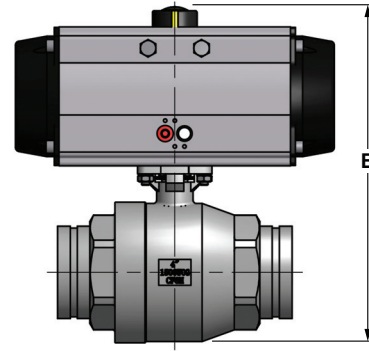
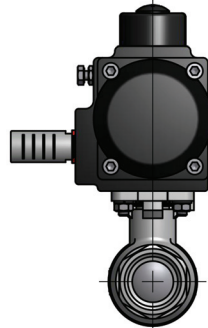
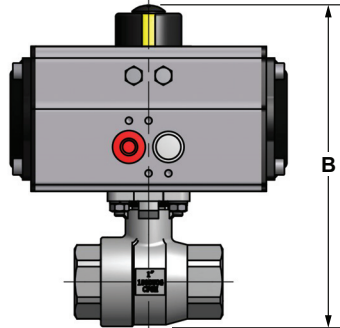
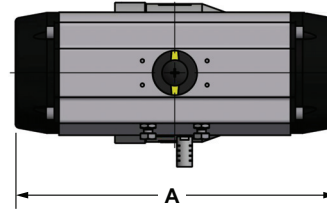
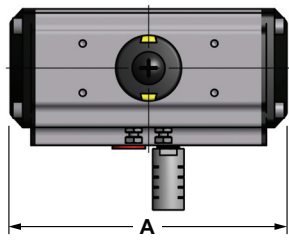
The valves operate pneumatically, using pressure from either a Nitrogen pilot cylinder or, in the case of inert systems, from the agent manifold. The pressure passes through a pressure regulator, then through the associated solenoid which is opened via the control panel, allowing the pressure to flow to the required selector valve.

For selector valves with NEMA 4 rated solenoids, Kidde Fire Systems offers back-plate manifolds which includes the various number of solenoids to ease installation. Use hose P/N: 01-3273-1200 and adapter P/N: 85-025125-000 to connect a nitrogen pilot cylinder to the pressure regulator on the back-plate manifold to provide operating pressure for the selector valves.

Selector valves with NEMA 7 rated solenoids cannot use the back-plate manifolds as, the solenoids are mounted directly on the selector valve.

Selector valve sizes 1, 1 1/2, and 2 in. have NPT threaded inlet and outlet ports for connection to the distribution piping. Selector valve sizes 3 and 4 in. use grooved fitting to connect to the system piping. When installing, choose the correct mating fittings to match with the groove fitting of the selector valves.





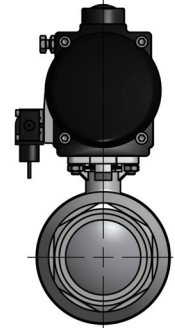
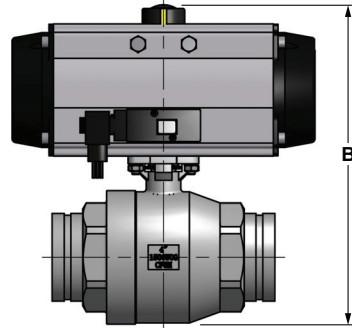
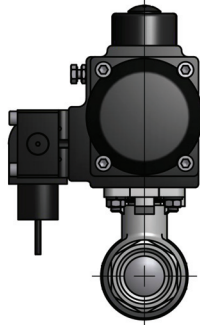
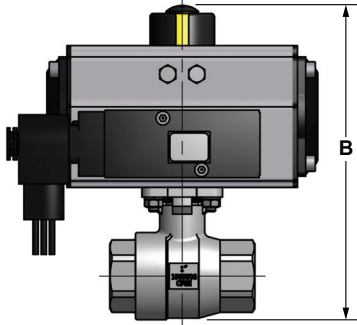
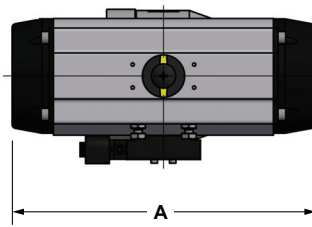
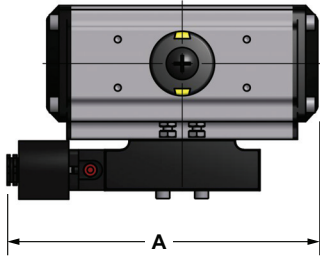
1 in. Selector Valve, NEMA 4, P/N: 85-100025-100

4 in. Selector Valve, NEMA 4, P/N: 85-400025-400

Figure 1. 1 and 4 inch Selector Valve, NEMA 4

Table 1. NEMA 4 Selector Valve Specifications

Part Number	Size	Thread Type	Dimensions				Pressure Rating
			A		B		
			inches	mm	inches	mm	
85-100025-100	1 in.	NPT	6 5/8	168	6 11/16	195	1015 PSI (70 Bar)
85-150025-150	1.5 in.	NPT	10 1/3	263	9 15/16	252	1015 PSI (70 Bar)
85-200025-200	2 in.	NPT	10 9/16	268	11 1/4	286	1015 PSI (70 Bar)
85-300025-300	3 in.	Grooved	11 7/8	301	14 1/4	362	1015 PSI (70 Bar)
85-400025-400	4 in.	Grooved	15 1/2	394	16 3/8	416	1015 PSI (70 Bar)



1 in. Selector Valve, NEMA 7, P/N: 85-100724-100

4 in. Selector Valve, NEMA 7, P/N: 85-400724-400

Figure 2. 1 and 4 inch Selector Valve, NEMA 7

Table 2. NEMA 7 Selector Valve Specifications

Part Number	Size	Lead Length	Thread Type	Dimensions				Pressure Rating
				A		B		
				inches	mm	inches	mm	
85-100724-100	1 in.	70" (1778 mm)	NPT	7 9/16	193	6 11/16	195	1015 PSI (70 Bar)
85-150724-150	1.5 in.	70" (1778 mm)	NPT	10 1/3	263	9 15/16	252	1015 PSI (70 Bar)
85-200724-200	2 in.	70" (1778 mm)	NPT	10 9/16	268	11 1/4	286	1015 PSI (70 Bar)
85-300724-300	3 in.	70" (1778 mm)	Grooved	11 7/8	301	14 3/16	360	1015 PSI (70 Bar)
85-400724-400	4 in.	70" (1778 mm)	Grooved	15 1/2	394	16 3/8	416	1015 PSI (70 Bar)

ORDERING INFORMATION

Table 3. Selector Valve Part Numbers

Part Number	Description
NEMA 4 Rated Selector Valves	
85-100025-100	1 in. Selector valve, NPT, 8-10 bar Actuator, NEMA 4 Rated Solenoid
85-150025-150	1 1/2 in. Selector valve, NPT, 8-10 bar Actuator, NEMA 4 Rated Solenoid
85-200025-200	2 in. Selector valve, NPT, 8-10 bar Actuator, NEMA 4 Rated Solenoid
85-300025-300	3 in. Selector valve, Grooved, 8-10 bar Actuator, NEMA 4 Rated Solenoid
85-400025-400	4 in. Selector valve, Grooved, 8-10 bar Actuator, NEMA 4 Rated Solenoid
NEMA 7 Rated Selector Valves	
85-100724-100	1 in. Selector valve, NPT, 8-10 bar Actuator, NEMA 7 Rated Solenoid
85-150724-150	1 1/2 in. Selector valve, NPT, 8-10 bar Actuator, NEMA 7 Rated Solenoid
85-200724-200	2 in. Selector valve, NPT, 8-10 bar Actuator, NEMA 7 Rated Solenoid
85-300724-300	3 in. Selector valve, Grooved, 8-10 bar Actuator, NEMA 7 Rated Solenoid
85-400724-400	4 in. Selector valve, Grooved, 8-10 bar Actuator, NEMA 7 Rated Solenoid

COMPATIBILITY

Series	DIOM P/N	Approvals
Kidde Fire Systems Natura™ Inert Gas System	06-237619-001	UL, FM
Kidde Fire Systems ECS-500™ System	06-237585-001	UL, ULC, FM
Kidde Fire Systems ADS™ for use with Fluoroketone Fire Suppression Agents	06-237256-001	UL, ULC, FM
Kidde Fire Systems ADS™ with HFC-227ea Agent	06-236068-001	UL, ULC, FM
Kidde Fire Systems ECS™ 360 for use with Fluoroketone Fire Suppression Agents	06-236553-001	UL, ULC, FM
Kidde Fire Systems ECS™ 360 with HFC-227ea Agent	06-236115-001	UL, ULC, FM

REFERENCED COMPONENTS

Description	Reference Data Sheet
Back Plate Manifold with Solenoids	K-38-2450
Back Plate Manifold Hose	K-38-2455

EXPORT INFORMATION (USA)

Jurisdiction: EAR
Classification: EAR99

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