

Indicator Switches for Pneumatically Actuated Valves



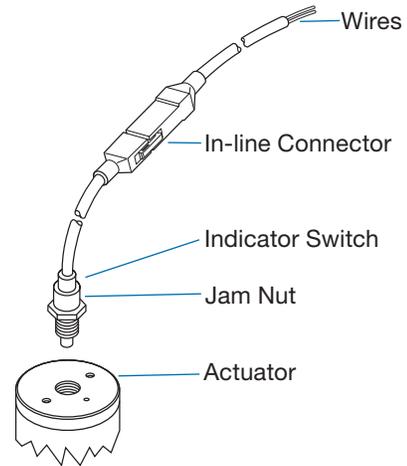
BK, BN, HB, DF, DP, and DPH Series

Features

- Indicator switches provide a means of communicating a valve's position (open or closed) to a programmable controller, panel lamp, process controller, or other electrical device
- Indicator switches are ideal for applications where the valve is in a remote or isolated location

Indicator Switch Assembly

- Designed for BK, BN, and HB series pneumatically actuated bellows valves and DF, DP, and DPH series pneumatically actuated diaphragm valves
- Fits all normally closed models and DPH normally open valves
- Features a single-pole, single-throw switch
- Rated at 1/2 A for 115 V (ac) for OPEN indicator switch
- Rated at 1/4 A for 115 V (ac) for CLOSED indicator switch
- Includes 24 in. (61 cm) wire leads with an in-line connector
- Available factory assembled on a valve or as a retrofit kit
- 22 AWG wire
- Temperature range for switch -40 to 185°F (-40 to 85°C)



Ordering Information

Factory-Assembled Switches

To order a valve with a factory-assembled indicator switch, add the switch designator as a suffix to the valve ordering number from the product catalog.

Valve Series Actuator	Actuator Position Indicated	Switch Designator
Normally Closed Valves		
BK ^① , BN ^② , DF, HB, DP, DPH	Open	M
	Closed	M-2
	Open and Closed ^③	M2
Normally Open Valves		
DPH	Open	M
	Closed	M-2
	Open and Closed	M2

① Switch only available with BK 1 series actuator
 ② BN series available with all actuators
 ③ HB, DP, and DPH series only

To order a normally closed HB series valve with a switch that indicates when the actuator is CLOSED, add **M-2** to the ordering number.

Example: SS-HBS4-**CM-2**

To order a normally closed HB series valve with two switches to indicate OPEN and CLOSED positions, add **M2** to the ordering number.

Example: SS-HBS4-**CM2**

For product technical data, including materials of construction and pressure-temperature ratings, see the following Swagelok catalogs:

- *Bellows-Sealed Valves, BN Series* catalog, [MS-01-94](#)
- *Bellows-Sealed Valves, B Series* catalog, [MS-01-22](#)
- *High-Pressure, Pneumatically Actuated Bellows-Sealed Valves, HB Series* catalog, [MS-01-76](#)
- *Springless Diaphragm Valves for High Performance, DP Series* catalog, [MS-01-165](#)
- *High-Flow, Springless Diaphragm Valves, DF Series* catalog, [MS-02-24](#)

Switch Retrofit Kits

Use a retrofit kit to equip a previously assembled valve with an indicator switch. Retrofit kits contain an actuator cap or actuator assembly and switch(es).

Valve Series Actuator	Actuator Position Indicated	Switch Retrofit Kit	
		Ordering Number	Contents
Normally Closed Valves			
BK ^①	Open	MS-ISK-BK-1CM	Actuator cap and switch
	Closed	MS-ISK-BK-1CM-2	
BN ^②	Open	MS-ISK-BN-CM	
	Closed	MS-ISK-BN-CM-2	
DF	Open	MS-ISK-DF-CM	Actuator assembly and switch(es) – 1 switch shown
	Closed	MS-ISK-DF-CM-2	
HB	Open	MS-ISK-HB-CM	
	Closed	MS-ISK-HB-CM-2	
	Open and Closed	MS-ISK-HB-CM2	
DP	Open	MS-ISK-DP-CM	
	Closed	MS-ISK-DP-CM-2	
	Open and Closed	MS-ISK-DP-CM2	
DPH	Open	MS-ISK-DPH-CM	
	Closed	MS-ISK-DPH-CM-2	
	Open and Closed	MS-ISK-DPH-CM2	
Normally Open Valves			
DPH	Open	MS-ISK-DPH-OM	Actuator assembly and switch(es) – 2 switches shown
	Closed	MS-ISK-DPH-OM-2	
	Open and Closed	MS-ISK-DPH-OM2	

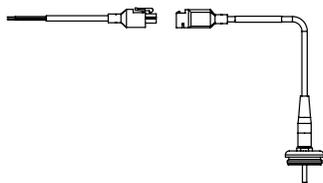
① Switch only available with BK 1 series actuator
 ② BN Series available with all actuators

Switch Replacement Kits

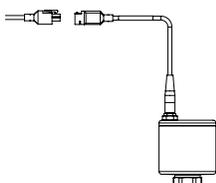
Replacement kits contain switches only.

Valve Series Actuator	Actuator Position Indicated	Switch Retrofit Kit	
		Ordering Number	Contents
Normally Closed Valves			
BK ^①	Open	MS-ISK-O-4	Switch only
	Closed	MS-ISK-C	
BN ^②	Open	MS-ISK-O	
	Closed	MS-ISK-C	
DF	Open	MS-ISK-O-6	
	Closed	MS-ISK-C-4	
HB	Open	MS-ISK-O-2	
	Closed	MS-ISK-C-2	
	Open and Closed	MS-ISK-O-2 and MS-ISK-C-2	
DP	Open	MS-ISK-O-7	
	Closed	MS-ISK-C-7	
	Open and Closed	MS-ISK-O-7 and MS-ISK-C-7	
DPH	Open	MS-ISK-O	
	Closed	MS-ISK-C	
	Open and Closed	MS-ISK-O and MS-ISK-C	
Normally Open Valves			
DPH	Open	MS-ISK-O-8	Switch only
	Closed	MS-ISK-C-8	
	Open and Closed	MS-ISK-O-8 and MS-ISK-C-8	

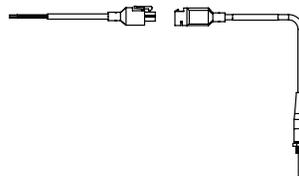
① Switch only available with BK 1 series actuator
 ② BN Series available with all actuators



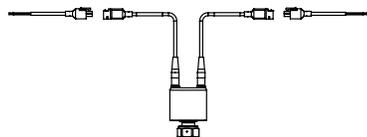
Actuator cap and switch



Actuator assembly and switch(es) – 1 switch shown



Switch only



Actuator assembly and switch(es)-2 switches shown

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

⚠ WARNING

Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.

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