

Pneumatics Symbols

DIN ISO1219-1, 03/96. Graphic symbols for pneumatic equipment.

Circuit symbols are used through this catalogue and on the labels of most SMC Pneumatic products.

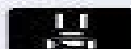
There are several symbol systems and conventions in use around the world, most officially recognized by standards bodies. Commonly used is ISO1219-1.

The symbols found in this catalogue generally conform to the Japanese Industrial Standard (JIS) in many cases, there is no difference between JIS and ISO circuit symbols.

The situation also occurs when SMC develop new product systems for which an ISO or JIS symbol does not exist. Examples include the MSG high power cylinder or the AV series air operated soft start / release valve. In this situation either a composite symbol showing a representative circuit is used, or the nearest standard symbol is modified by SMC.

For assistance a table below shows both ISO symbols, which may differ from JIS symbols in this catalogue, and common ISO/JIS/SMC Symbols.

Volume 1



Symbol	Description
	Directional control valve 2/2-way valve, closed normal position
	Directional control valve 2/2-way valve, open normal position
	Directional control valve 3/2-way valve, closed normal position
	Directional control valve 3/2-way valve, open normal position
	Directional control valve 3/3-way valve, closed neutral position
	Directional control valve 4/2-way valve
	Directional control valve 4/3-way valve, closed neutral position
	Directional control valve 4/3-way valve, exhaust neutral position
	Directional control valve 5/2-way valve
	Directional control valve 5/3-way valve, closed neutral position

Symbol	Description
	Directional control valve 5/3-way valve, exhaust neutral position
	Directional control valve 5/3-way valve, open neutral position
	Manual Control General
	Manual Control Lever
	Manual Control Pedal
	Mechanical Control Plunger
	Mechanical Control Spring
	Mechanical Control Roller
	Mechanical Control Roller with idle return
	Solenoid with one effective winding
	Solenoid with two windings acting in opposition
	Combined Control by solenoid and pilot valve
	Pressure Control
	Shuttle valve
	Pneumatic- Electric-Relay
	Pneumatic indicator
	Blender
	Pressure Control Valve Air operated
	Mechanical Component Detent

Pneumatic Symbols Chart

Colin H. Simmons, Dennis E. Maguire

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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