



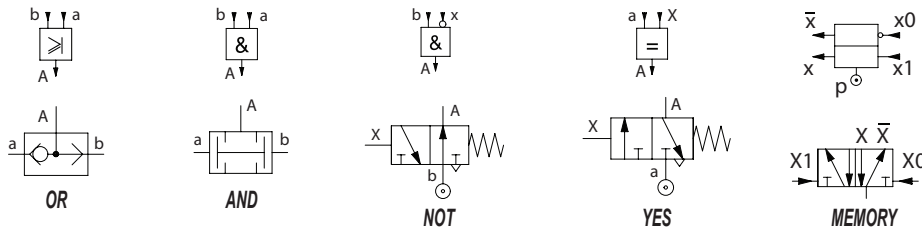
Pneumatic Logic Valves



Metal Work's pneumatic logic elements are compact, DIN-rail-mountable devices that replicate Boolean logic functions — OR, AND, NOT, YES, and MEMORY — entirely through compressed air, requiring no electrical power. These five elements allow engineers to build pneumatic control circuits with logical decision-making capabilities in harsh or electrically sensitive environments. All units share a common body design making them easy to assemble into multi-function control arrays on standard 35mm DIN rail. OR and AND elements operate on a pressure range of 22 to 116 psi, while YES, NOT, and MEMORY elements accept supply pressure from 0 to 116 psi with a pilot pressure requirement of 22 to 116 psi minimum. The NOT element features a switching threshold of 6 psi at 87 psi supply, and all elements share a nominal flow rate of 100 NL/min at 87 psi with a 14.5 psi pressure drop. These elements work with filtered compressed air — lubricated or unlubricated — and can be mounted in any orientation on DIN rail or wall-mounted using Ø 4.2mm holes. Their technopolymer bodies, aluminum spools, and NBR seals make them durable across an operating temperature range of -10 to +60 °C [-14 to +140 °F].

Features

- Five logic functions available: OR, AND, NOT, YES, and MEMORY
- Fits 35mm DIN rail, also wall-mountable
- Built-in pressure indicator on every unit for quick visual status confirmation
- Ø 4mm (5/32in) push-in fittings integrated into the body for fast, tool-free pneumatic connections
- Actuation via compressed air for all elements; OR and AND reset via compressed air, YES/NOT via mechanical spring, and MEMORY via compressed air
- Minimum pressure: 1.5 bar (21.8 psi) for OR/AND elements; 0 bar for YES/NOT/MEMORY supply with 1.5 bar (21.8 psi) pilot minimum
- Maximum pressure: 8 bar (116 psi) across all elements
- Durable construction with technopolymer body, aluminum spool, and NBR seals; rated for -10 to +60 °C [-14 to +140 °F] operating temperature



MetalWork Pneumatic Logic Valves													
Part No.	Valve Type	Ports	Positions	Configuration	Action	Inlet Ports	Outlet Ports	Pilot Ports	CV	Weight (lbs)	Price	Drawing Link	Manufacturer Specifications
W3604000001	OR logic element	3-port (3-way)	2	N/A	Double air pilot	N/A	5/32" (4mm) push-to-connect	(2) 5/32in (4mm) push-to-connect	0.1	0.06	\$17.00	PDF	PDF
W3604000002	AND logic element			N/A	Double air pilot	N/A	5/32" (4mm) push-to-connect	(2) 5/32in (4mm) push-to-connect		0.06	\$19.00	PDF	
W3604000003	NOT logic element			N.O.	Single air pilot spring return	5/32" (4mm) push-to-connect	5/32" (4mm) push-to-connect	5/32in (4mm) push-to-connect		0.09	\$28.50	PDF	
W3604000004	YES logic element			N.C.	Single air pilot spring return	5/32" (4mm) push-to-connect	5/32" (4mm) push-to-connect	5/32in (4mm) push-to-connect		0.09	\$30.00	PDF	
W3604000005	MEMORY logic element	5-port (4-way)		N/A	Double air pilot	5/32" (4mm) push-to-connect	(2) 5/32" (4mm) push-to-connect	(2) 5/32in (4mm) push-to-connect		0.12	\$51.00	PDF	

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).