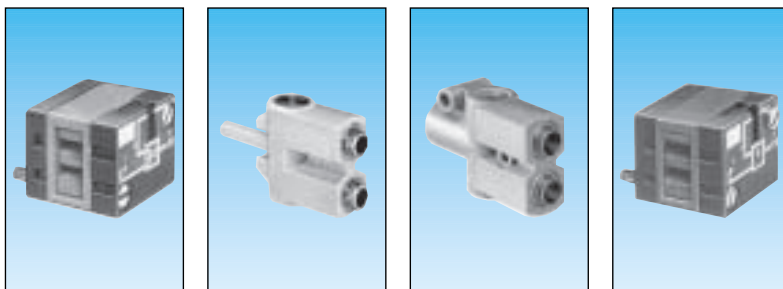


Logic Valves



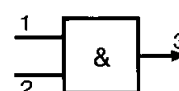
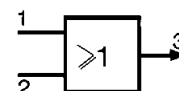
Part Numbers

Functions	OR	81 521 501	81 540 001	81 540 005	81 522 501
	AND	-	-	-	-
	YES	-	-	-	-
	NO	-	-	-	-
Version		On sub-base page 4/14 - 4/15	Plug-in Ø 4	Plug-in Ø 6	On sub-base page 4/14 - 4/15

Characteristics

Push-in connection for semi-rigid tubing (NFE 49100)	Male/Female/Female	-	Ø 4 mm	-	-
	Female/Female/Female	-	-	Ø 6 mm	-
Colour		Blue	Blue	Blue	Green
Operating pressure	bar	2 • 8	2 • 8	2 • 8	2 • 8
Orifice diameter	mm	2.7	2.7	4	2.7
Flow at 6 bars	NI/min	170	170	200	170
Pressure indicator		•	•	-	•
Switching time	ms	-	-	-	-
Operating temperature	°C	-5 +50	-5 +50	-5 +50	-5 +50
Mechanical life	operations	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷
Weight	g	25	12	25	25

Symbol

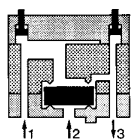


Pilot/pressure curves

P.p : Pilot pressure

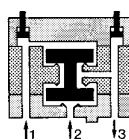
P.a : Supply pressure

Principle of operation



OR element

The output signal "S" is present when a signal at "a" OR "b" is present
 $S = a \text{ OR } b$
 $S = a + b$

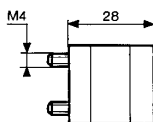
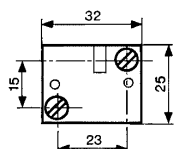


AND element

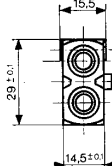
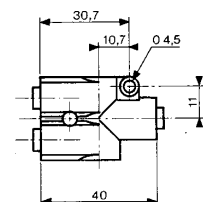
The output signal "S" is present only when signals "a" AND "b" are present simultaneously.
 $S = a \text{ AND } b$
 $S = a \cdot b$

Dimensions

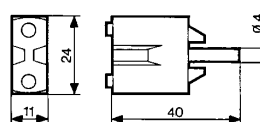
81 521 501 - 81 522 501

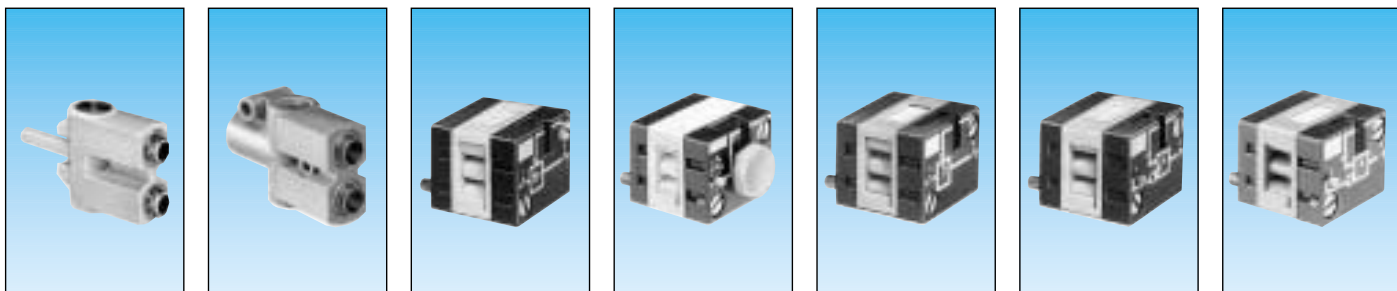


81 540 005 - 81 541 005

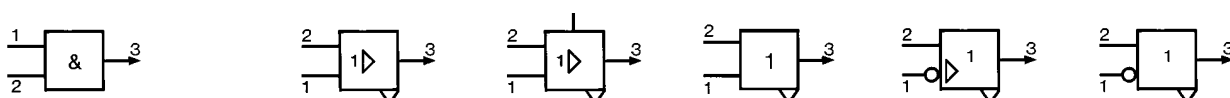


81 540 001 - 81 541 001

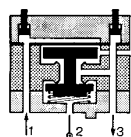
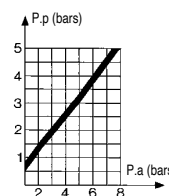
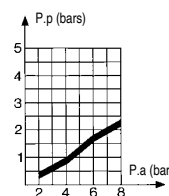
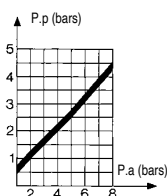
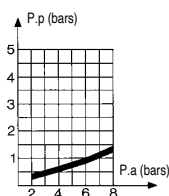




-	-	-	-	-	-	-
81 541 001	81 541 005	-	81 501 065	81 503 025	81 504 025	81 506 025
-	-	81 501 025	-	-	Simple and inhibition	Threshold
-	-	-	Manual override	Threshold	On sub-base	On sub-base
Plug-in Ø 4	Plug-in Ø 6	On sub-base page 4/14 - 4/15	On sub-base page 4/14 - 4/15	On sub-base page 4/14 - 4/15	On sub-base page 4/14 - 4/15	On sub-base page 4/14 - 4/15

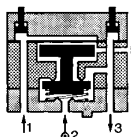


Ø 4 mm	Ø 6 mm	--	--	--	--	--
-	Green	Yellow	Yellow	Orange	Light grey	Dark grey
Green	2 • 8	2 • 8	2 • 8	2 • 8	2 • 8	2 • 8
2 • 8	4	2.7	2.7	2.7	2.7	2.7
2.7	200	170	170	170	170	170
150						
--	-	< 4	< 4	< 4	< 4	< 4
-5 +50	-5 +50	-5 +50	-5 +50	-5 +50	-5 +50	-5 +50
>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷
13	25	30	35	30	30	30



YES element

The output signal "S" is only present when the pilot is present :
S = a YES b S = a



NOT element

The output signal "s" is present only if the input signal "a" is NOT present. The output signal is therefore the inverse of the pilot signal.
S= NOT a S = a
If the supply port is connected to a 2nd input "b", the function obtained is called Inhibition.
S = NOT a AND b S = a . b

81 501 025 - 81 503 025
81 504 025 - 81 506 025

81 501 065

