

Controlair Valve

ND 7, with rotary knob Ø 24 mm

Rexroth
Bosch Group

Technical data


Type		Poppet valve
Operating pressure	p max.	10 bar
Regulating range		See table
Parallel shifting ¹⁾	V max.	See table
Hysteresis	H	< 0.1 bar
Refilling sensitivity		0.07
Nominal flow rate	Qn	See diagram
Ambient temperature range		- 25° C to + 70° C
Admissible medium		Compressed air, lubricated or non-lubricated
Weight		0.6 kg
Materials	Housing	Zn-diecasting
	Seals	NBR



Technical Information


¹⁾ The pressure-travel-characteristic line can be adjusted in a parallel way by means of a screw cap, that means initial and final pressure as well as all pressures between these limiting values will be increased or decreased to the same extent. The range of adjustment is shown by the grey shaded zone above the characteristic line (example see pressure-travel-characteristic line).

Type number

	Fig.	Locking ring	Regulating range	V max. ¹⁾	Type number *
	1	Ø 24 mm	0.1 - 5.1 bar	1.4 bar	361 081 050 0

* For thread connections M 14 x 1.5

Accessories (to be ordered separately)

Accessories	Type	Type number
	Spare part kit	361 050 000 2

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Fig. 1

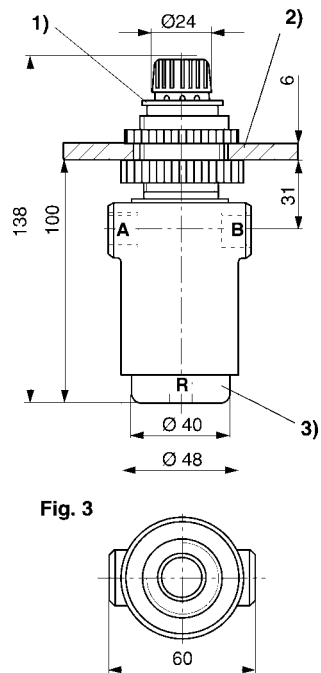


Fig. 1

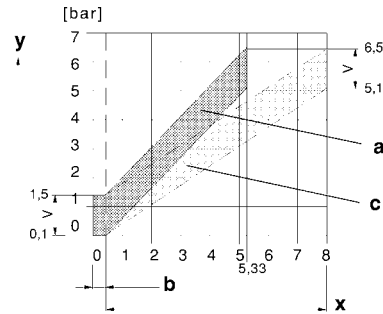
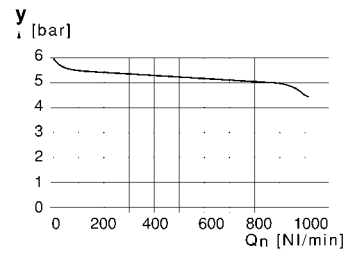


Fig. 2



1) Lift locking ring to release rotary knob. 2) Hole for mounting panel 33 mm dia. 3) Screw cap

Fig.1 Pressure travel characteristic line

x: Regulating stroke [mm] (rotations of rotary knob) y: Pressure at port A [bar] a: Characteristic line of fig. 1 b: Exhaust stroke

Example: regulating range 0.1 - 5.1 bar $V = \text{max. parallel shifting: } 1.4 \text{ bar}$

Fig. 2 Nominal flow rate

Input pressure: 8 bar; supply pressure: 6 bar y: Pressure at port A [bar]